

Denne rapport  
tilhører

 **STATOIL**

**N**

**L&U DOK. SENTER**

L. NR. 302 83510016

KODE Well 31/3-1 nr. 18

Returneres etter bruk

**sperry-sui**

Pressure Survey Report

for

Statoil

Well No. 31/3-1

05 October 1983

Test No. 2 Run No. 4

Downhole & Surface Data



Pressure Survey Report  
for  
Statoil

Well No. 31/3-1

05 October 1983

Test No. 2      Run No. 4

Downhole & Surface Data.

SPERRY-SUN INTERNATIONAL INC.  
MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

CHECK PRESSURES SHEET.

GAUGE TYPE/NO:	MKIIIA 0120	MR-6
TIME MODE	2 MIN	-
ELEMENT SIZE	10 K	5 K
DEPTH(M.RKB)	1352.67	U/C
MAX. TEMP.(Deg. C)	59.7	20.0

END OF EVENT	TIME/DATE	PRESSURE (Bars Abs.)	PRESSURE (Bars Abs.)
INITIAL STATIC	04:50:00 05/10/83	153.941	30.647
1st FLOW	12:08:00 "	149.757	92.424
1st BUILD-UP	14:20:00 "	155.604	92.769
2nd FLOW	20:07:00 "	147.134	44.575
2nd BUILD-UP	06:00:00 06/10/83	155.638	138.068

SPERRY-SUN ENGINEER : P J Weatherill.

GAUGE PERFORMANCE REPORT -

MKIIIA 0120-3185 - Performed perfectly for duration of test.

SPERRY-SUN INTERNATIONAL INC.  
MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

TEST NO. 2, RUN NO. 4. SEQUENCE OF EVENTS

DATE	TIME	OPERATION
POST ACID NO.2 TEST. =====		
05/10/83	02:35	ACTIVATE GAUGE NO. 0120
"	03:00	GAUGES IN STRING
"	04:16	GAUGES SEATED IN NIPPLE
"	04:50	WELL OPENED ON 64/64" CHOKE AT MANIFOLD
"	04:56	GAS TO SURFACE
"	04:57	DIRECT FLOW THRU HEATER ON 2x64/64" CHOKES
"	05:10	CHOKE MANIFOLD FULLY OPEN
"	06:50	BYPASS HEATER
"	08:21	DIRECT FLOW THRU HEATER ON 2x64/64" CHOKES
"	08:26	DIRECT FLOW THRU SEPERATOR
"	12:00	BYPASS SEPERATOR
"	12:08	CLOSE PCT VALVE & CHOKE MANIFOLD
MULTIRATE FLOW TEST NO.2 =====		
05/10/83	14:19	OPEN PCT VALVE
"	14:20	WELL OPENED ON 128/64" CHOKE AT MANIFOLD & DIRECT FLOW THRU HEATER ON 2x20/64" CHOKES
"	14:27	DIRECT FLOW THRU SEPERATOR
"	16:12	INCREASE TO 2x32/64" CHOKE AT HEATER
"	18:03	BYPASS HEATER, FLOWING ON FULL CHOKE
"	20:03	BYPASS SEPERATOR
"	20:07	CLOSE PCT VALVE & CHOKE MANIFOLD
"	23:18	PCT VALVE LEAKING, OPEN PCT VALVE
06/10/83	06:00	END OF TEST
"	20:50	GAUGES OUT OF STRING

PRESSURE Scale: 1 inch = 25 BARS

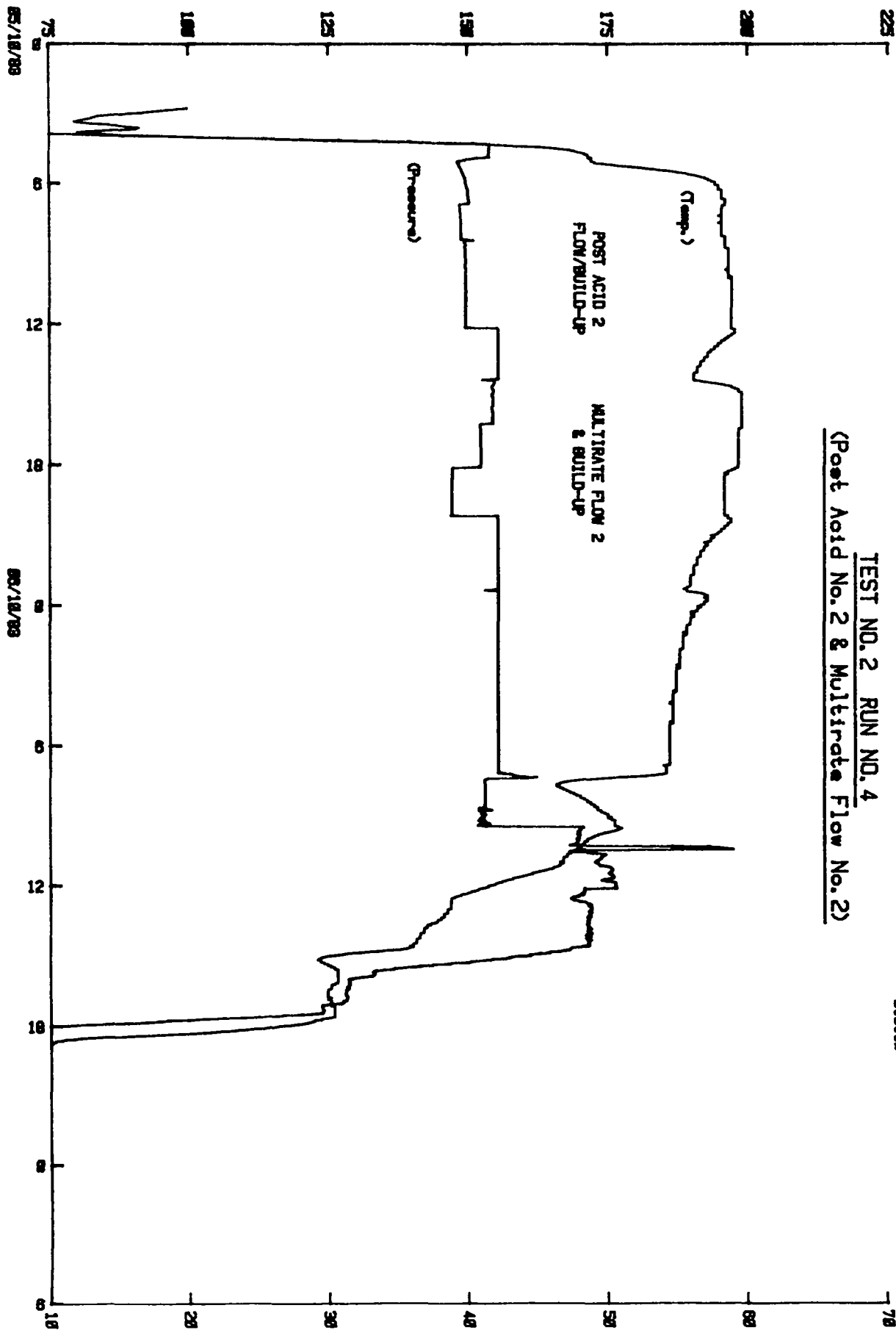
STATOIL  
WELL NO. 31/3-1  
TROLL

NL Sperry-Sun, Inc.

PRESSURE/TEMP. vs TIME PLOT

TEST NO. 2 RUN NO. 4  
(Post Acid No. 2 & Multirate Flow No. 2)

05 OCTOBER 1983  
MK111A 0129  
010118



REAL TIME  
Scale: 1 inch = 8 hours

TEMPERATURE Scale: 1 inch = 18 (deg. C)

0/22/83

SPERRY-SUN INTERNATIONAL  
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2, RUN 4. GAUGE 0120, SENSING DEPTH 1352.67 M. (INITIAL STATIC).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	153.906	38.8	4:16	5/10/83 GAUGES SEATED IN NIPPLE
0.033	153.900	40.8	4:18	
0.067	153.895	42.3	4:20	
0.100	153.916	43.5	4:22	
0.133	153.908	44.7	4:24	
0.167	153.916	45.4	4:26	
0.200	153.908	46.2	4:28	
0.233	153.939	46.7	4:30	
0.267	153.924	47.2	4:32	
0.300	153.917	47.4	4:34	
0.333	153.940	47.7	4:36	
0.367	153.933	47.9	4:38	
0.400	153.925	48.2	4:40	
0.433	153.903	48.4	4:42	
0.467	153.918	48.4	4:44	
0.500	153.911	48.6	4:46	
0.533	153.926	48.6	4:48	
0.567	153.941	48.6	4:50	END OF INITIAL STATIC.

10/22/83

SPERRY-SUN INTERNATIONAL  
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 1

STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2; RUN 4. GAUGE 0120; SENSING DEPTH 1352.67 M. (POST ACID NO.2 FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
0.000	153.941	48.6	4:50
0.033	151.776	48.9	4:52
0.067	151.190	48.6	4:54
0.100	149.861	48.9	4:56
0.133	149.587	48.9	4:58
0.167	148.554	48.9	5: 0
0.200	148.189	48.9	5: 2
0.233	148.228	49.1	5: 4
0.267	148.350	49.1	5: 6
0.300	148.534	49.6	5: 8
0.333	148.505	50.1	5:10
0.367	148.507	50.6	5:12
0.400	148.554	51.1	5:14
0.433	148.693	51.6	5:16
0.467	148.779	52.3	5:18
0.500	148.888	52.8	5:20
0.533	148.966	53.3	5:22
0.567	149.028	53.8	5:24
0.600	149.076	54.3	5:26
0.633	149.093	54.8	5:28
0.667	149.178	55.0	5:30
0.700	149.241	55.5	5:32
0.733	149.310	55.8	5:34
0.767	149.364	56.0	5:36
0.800	149.434	56.3	5:38
0.833	149.518	56.5	5:40
0.867	149.557	56.8	5:42
0.900	149.611	57.0	5:44
0.933	149.642	57.0	5:46
0.967	149.681	57.2	5:48
1.000	149.696	57.2	5:50
1.033	149.705	57.5	5:52
1.067	149.720	57.5	5:54
1.100	149.744	57.7	5:56
1.133	149.759	57.7	5:58
1.167	149.804	57.7	6: 0
1.200	149.835	57.7	6: 2
1.233	149.874	58.0	6: 4
1.267	149.904	58.0	6: 6
1.300	149.949	58.0	6: 8
1.333	150.010	58.0	6:10
1.367	150.055	58.0	6:12
1.400	150.116	58.0	6:14
1.433	150.125	58.2	6:16
1.467	150.155	58.2	6:18
1.500	150.125	58.2	6:20
1.533	150.155	58.2	6:22
1.567	150.125	58.2	6:24
1.600	150.140	58.2	6:26
1.633	150.170	58.2	6:28

5/10/83 WELL OPENED ON 64/64"  
CHOKE AT MANIFOLD.

GAS TO SURFACE.  
DIRECT FLOW THRU HEATER  
ON 2 X 64/64" CHOKES.

CHOKE MANIFOLD FULLY OPEN.

STATOIL  
TROLL  
31/3-1OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2, RUN 4. GAUGE 0120, SENSING DEPTH 1352.67 M. (POST ACID NO.2 FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.667	150.140	58.2	6:30	5/10/83
1.700	150.170	58.2	6:32	
1.733	150.200	58.2	6:34	
1.767	150.231	58.2	6:36	
1.800	150.261	58.2	6:38	
1.833	150.300	58.5	6:40	
1.867	150.330	58.5	6:42	
1.900	150.345	58.5	6:44	
1.933	150.361	58.5	6:46	
1.967	150.376	58.5	6:48	
2.000	150.209	58.5	6:50	
2.033	148.634	58.5	6:52	
2.067	148.604	58.5	6:54	
2.100	148.610	58.2	6:56	
2.133	148.625	58.2	6:58	
2.167	148.640	58.2	7: 0	
2.200	148.670	58.2	7: 2	
2.233	148.670	58.2	7: 4	
2.267	148.716	58.2	7: 6	
2.300	148.731	58.2	7: 8	
2.333	148.701	58.2	7:10	
2.367	148.731	58.2	7:12	
2.400	148.731	58.2	7:14	
2.433	148.777	58.2	7:16	
2.467	148.777	58.2	7:18	
2.500	148.792	58.2	7:20	
2.533	148.813	58.0	7:22	
2.567	148.822	58.2	7:24	
2.600	148.822	58.2	7:26	
2.633	148.822	58.2	7:28	
2.667	148.837	58.2	7:30	
2.700	148.837	58.2	7:32	
2.733	148.852	58.2	7:34	
2.767	148.852	58.2	7:36	
2.800	148.852	58.2	7:38	
2.833	148.904	58.0	7:40	
2.867	148.852	58.2	7:42	
2.900	148.883	58.2	7:44	
2.933	148.867	58.2	7:46	
2.967	148.883	58.2	7:48	
3.000	148.867	58.2	7:50	
3.033	148.867	58.2	7:52	
3.067	148.913	58.2	7:54	
3.100	148.883	58.2	7:56	
3.133	148.898	58.2	7:58	
3.167	148.867	58.2	8: 0	
3.200	148.883	58.2	8: 2	
3.233	148.898	58.2	8: 4	
3.267	148.883	58.2	8: 6	
3.300	148.898	58.2	8: 8	

BYPASS HEATER.



10/22/83

SPERRY-SUN INTERNATIONAL  
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2; RUN 4. GAUGE 0120; SENSING DEPTH 1352.67 M. (POST ACID NO.2 FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
3.333	148.898	58.2	8:10
3.367	148.913	58.2	8:12
3.400	148.898	58.2	8:14
3.433	148.922	58.5	8:16
3.467	148.907	58.5	8:18
3.500	148.922	58.5	8:20
3.533	148.937	58.5	8:22
3.567	151.088	58.5	8:24
3.600	149.618	58.5	8:26
3.633	149.497	58.5	8:28
3.667	149.512	58.5	8:30
3.700	149.558	58.5	8:32
3.733	149.679	58.5	8:34
3.767	149.755	58.5	8:36
3.800	149.709	58.5	8:38
3.833	149.588	58.5	8:40
3.867	149.573	58.5	8:42
3.900	149.603	58.5	8:44
3.933	149.627	58.7	8:46
3.967	149.658	58.7	8:48
4.000	149.658	58.7	8:50
4.033	149.658	58.7	8:52
4.067	149.658	58.7	8:54
4.100	149.658	58.7	8:56
4.133	149.658	58.7	8:58
4.167	149.658	58.7	9: 0
4.200	149.658	58.7	9: 2
4.233	149.658	58.7	9: 4
4.267	149.658	58.7	9: 6
4.300	149.688	58.7	9: 8
4.333	149.703	58.7	9:10
4.367	149.718	58.7	9:12
4.400	149.733	58.7	9:14
4.433	149.718	58.7	9:16
4.467	149.748	58.7	9:18
4.500	149.718	58.7	9:20
4.533	149.718	58.7	9:22
4.567	149.718	58.7	9:24
4.600	149.718	58.7	9:26
4.633	149.718	58.7	9:28
4.667	149.718	58.7	9:30
4.700	149.718	58.7	9:32
4.733	149.718	58.7	9:34
4.767	149.733	58.7	9:36
4.800	149.779	58.7	9:38
4.833	149.800	58.5	9:40
4.867	149.794	58.7	9:42
4.900	149.748	58.7	9:44
4.933	149.733	58.7	9:46
4.967	149.718	58.7	9:48

5/10/83

DIRECT FLOW THRU HEATER  
ON 2 X 64/64" CHOKES.

DIRECT FLOW THRU SEPERATOR.

STATOIL  
TROLL  
31/3-1OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2; RUN 4. GAUGE 0120; SENSING DEPTH 1352.67 M. (POST ACID NO.2 FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
5.000	149.718	58.7	9:50	5/10/83
5.033	149.718	58.7	9:52	
5.067	149.748	58.7	9:54	
5.100	149.718	58.7	9:56	
5.133	149.712	59.0	9:58	
5.167	149.718	58.7	10: 0	
5.200	149.794	58.7	10: 2	
5.233	149.772	59.0	10: 4	
5.267	149.757	59.0	10: 6	
5.300	149.772	59.0	10: 8	
5.333	149.772	59.0	10:10	
5.367	149.772	59.0	10:12	
5.400	149.742	59.0	10:14	
5.433	149.742	59.0	10:16	
5.467	149.757	59.0	10:18	
5.500	149.742	59.0	10:20	
5.533	149.742	59.0	10:22	
5.567	149.772	59.0	10:24	
5.600	149.772	59.0	10:26	
5.633	149.772	59.0	10:28	
5.667	149.772	59.0	10:30	
5.700	149.787	59.0	10:32	
5.733	149.818	59.0	10:34	
5.767	149.818	59.0	10:36	
5.800	149.787	59.0	10:38	
5.833	149.772	59.0	10:40	
5.867	149.772	59.0	10:42	
5.900	149.772	59.0	10:44	
5.933	149.772	59.0	10:46	
5.967	149.787	59.0	10:48	
6.000	149.803	59.0	10:50	
6.033	149.787	59.0	10:52	
6.067	149.803	59.0	10:54	
6.100	149.818	59.0	10:56	
6.133	149.787	59.0	10:58	
6.167	149.803	59.0	11: 0	
6.200	149.787	59.0	11: 2	
6.233	149.803	59.0	11: 4	
6.267	149.803	59.0	11: 6	
6.300	149.787	59.0	11: 8	
6.333	149.772	59.0	11:10	
6.367	149.803	59.0	11:12	
6.400	149.803	59.0	11:14	
6.433	149.787	59.0	11:16	
6.467	149.803	59.0	11:18	
6.500	149.803	59.0	11:20	
6.533	149.833	59.0	11:22	
6.567	149.803	59.0	11:24	
6.600	149.818	59.0	11:26	
6.633	149.833	59.0	11:28	

10/22/83

SPERRY-SUN INTERNATIONAL  
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2, RUN 4. GAUGE 0120, SENSING DEPTH 1352.67 M. (POST ACID NO.2 FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
6.667	149.833	59.0	11:30	5/10/83
6.700	149.833	59.0	11:32	
6.733	149.833	59.0	11:34	
6.767	149.787	59.0	11:36	
6.800	149.803	59.0	11:38	
6.833	149.833	59.0	11:40	
6.867	149.803	59.0	11:42	
6.900	149.833	59.0	11:44	
6.933	149.833	59.0	11:46	
6.967	149.833	59.0	11:48	
7.000	149.833	59.0	11:50	
7.033	149.848	59.0	11:52	
7.067	149.863	59.0	11:54	
7.100	149.863	59.0	11:56	
7.133	149.878	59.0	11:58	
7.167	149.863	59.0	12: 0	
7.200	149.818	59.0	12: 2	
7.233	149.757	59.0	12: 4	
7.267	149.757	59.0	12: 6	

BYPASS SEPERATOR.

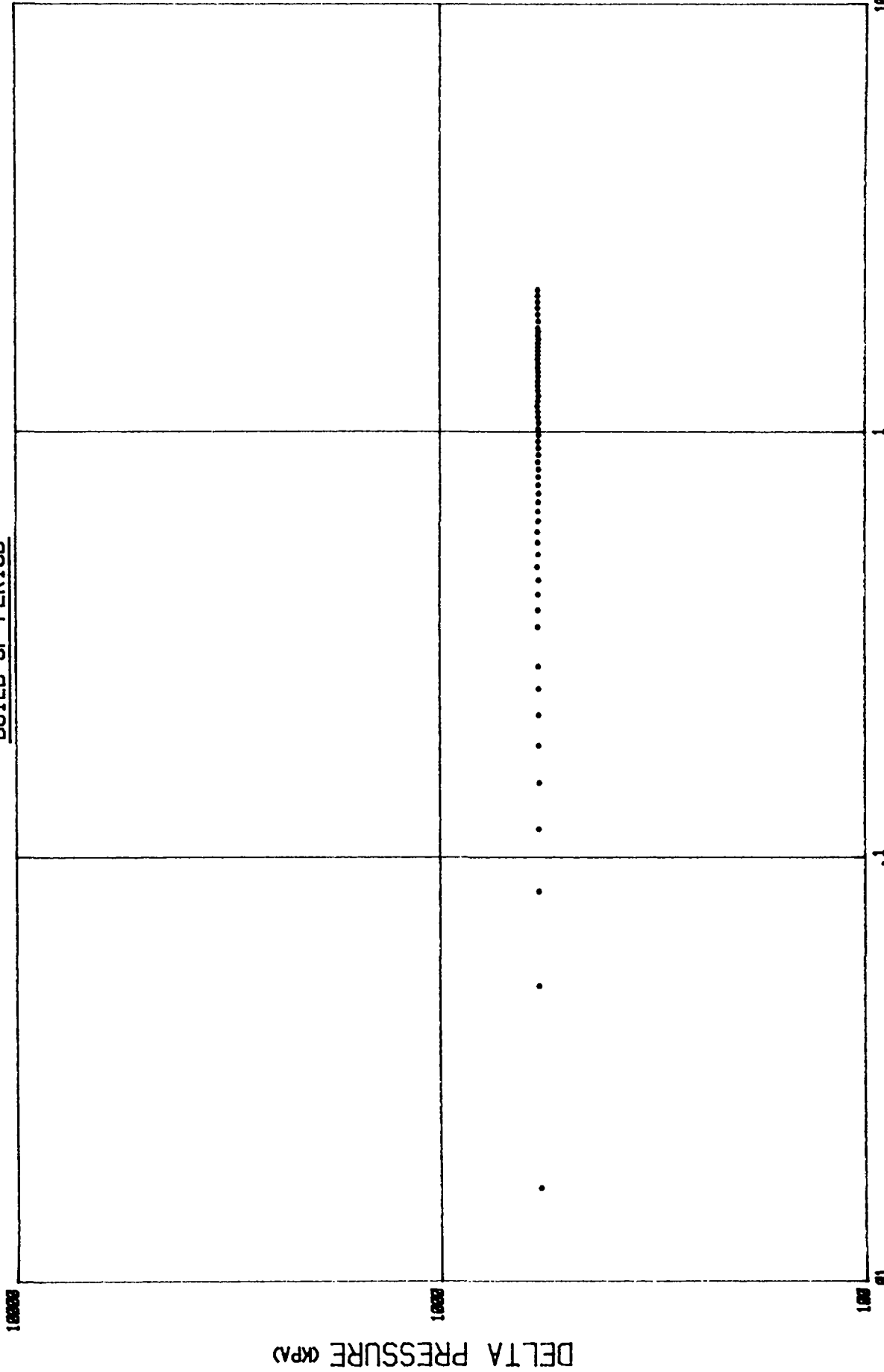
END OF FLOW PERIOD.

STATOIL  
WELL NO. 31/3-1  
TROLL

NL Sperry-Sun, Inc.  
LOG(DP) Vs LOG( $\Delta T$ ) PLOT

TEST NO. 2 RUN NO. 4 (Post Acid No. 2)  
BUILD-UP PERIOD

05 OCTOBER 1983  
MK111A 0120  
010118



SHUT-IN TIME = 572 min.  
FINAL DELTA TIME = 703 min.

DELTA TIME

DELTA TIME IS IN HOURS

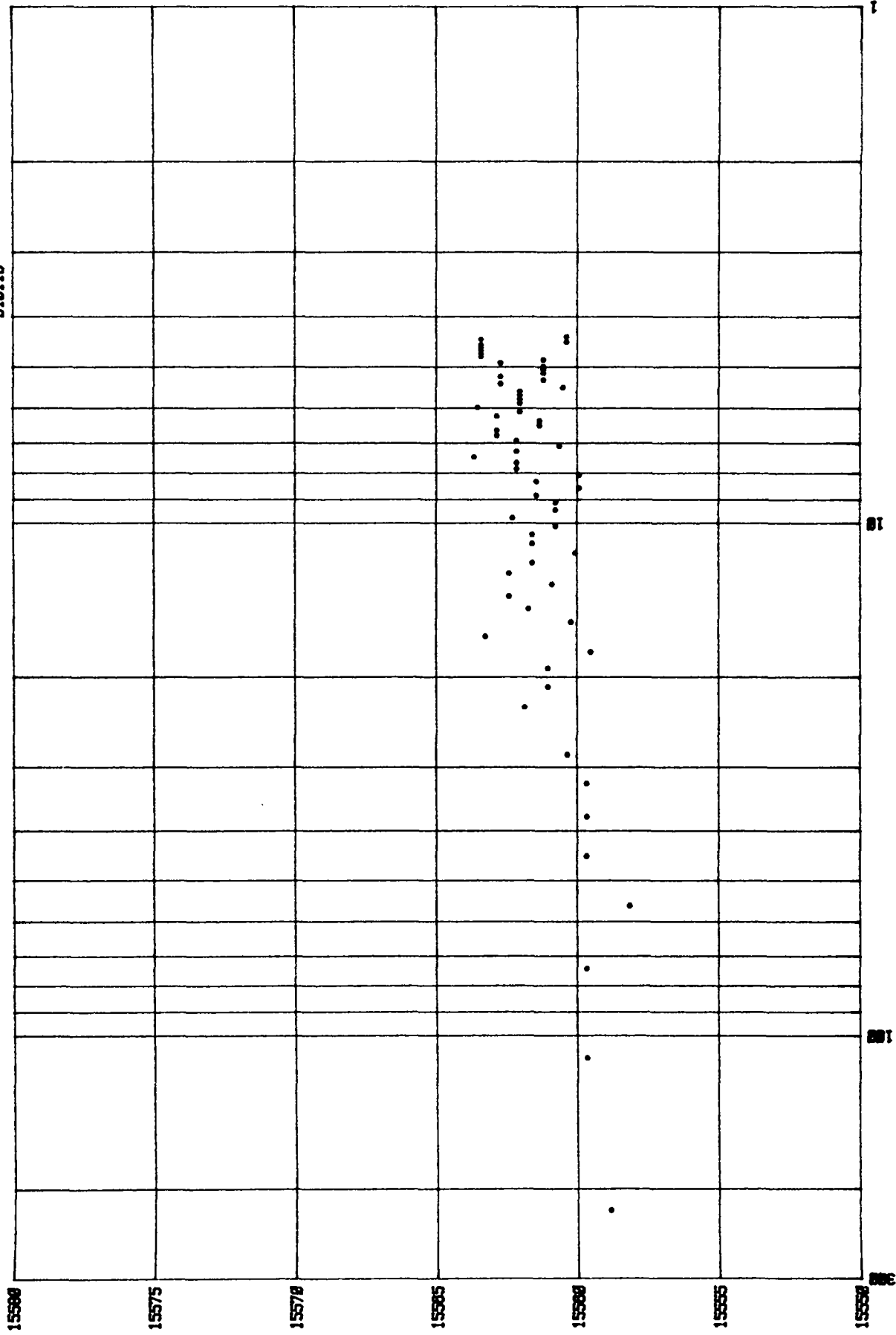
05 OCTOBER 1963

NL Sperry-Sun, Inc.

WJ111A 8128  
D1011B

STATOIL  
WELL NO. 31/3-1  
TROLL

HORNER PLOT



Scale: 1 inch = 5 KPA

TEST NO. 2 RUN NO. 4 (Post Acid 2 Build-up)  
SHUT-IN TIME = 573 mins.  
FINAL DELTA TIME = 703 mins.

$(T+dt)/dt$

T = 7.3 hours

STATOIL  
TROLL  
31/3-1OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2, RUN 4. GAUGE 0120, SENSING DEPTH 1352.67 M. (POST ACID NO.2 BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
-0.033	149.757	59.0	12: 6
0.000	155.558	59.0	12: 8
0.033	155.588	59.0	12:10
0.067	155.596	59.2	12:12
0.100	155.596	59.2	12:14
0.133	155.581	59.2	12:16
0.167	155.596	59.2	12:18
0.200	155.596	59.2	12:20
0.233	155.596	59.2	12:22
0.267	155.603	59.0	12:24
0.333	155.618	59.0	12:28
0.367	155.610	58.7	12:30
0.400	155.610	58.7	12:32
0.433	155.595	58.7	12:34
0.467	155.632	58.5	12:36
0.500	155.602	58.5	12:38
0.533	155.617	58.5	12:40
0.567	155.624	58.2	12:42
0.600	155.609	58.2	12:44
0.633	155.624	58.2	12:46
0.667	155.616	58.0	12:48
0.700	155.600	58.0	12:50
0.733	155.616	58.0	12:52
0.767	155.616	58.0	12:54
0.800	155.607	57.7	12:56
0.833	155.623	57.7	12:58
0.867	155.607	57.7	13: 0
0.900	155.607	57.7	13: 2
0.933	155.614	57.5	13: 4
0.967	155.599	57.5	13: 6
1.000	155.614	57.5	13: 8
1.033	155.599	57.5	13:10
1.067	155.621	57.2	13:12
1.100	155.621	57.2	13:14
1.133	155.636	57.2	13:16
1.167	155.621	57.2	13:18
1.200	155.606	57.2	13:20
1.233	155.621	57.2	13:22
1.267	155.628	57.0	13:24
1.300	155.628	57.0	13:26
1.333	155.613	57.0	13:28
1.367	155.613	57.0	13:30
1.400	155.628	57.0	13:32
1.433	155.620	56.8	13:34
1.467	155.635	56.8	13:36
1.500	155.620	56.8	13:38
1.533	155.620	56.8	13:40
1.567	155.620	56.8	13:42
1.600	155.620	56.8	13:44
1.633	155.605	56.8	13:46

5/10/83 CLOSE PCT VALVE &  
CHOKE MANIFOLD.

10/22/83

SPERRY-SUN INTERNATIONAL  
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 2

STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2, RUN 4. GAUGE 0120, SENSING DEPTH 1352.67 M. (POST ACID NO.2 BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.667	155.627	56.5	13:48	5/10/83
1.700	155.612	56.5	13:50	
1.733	155.627	56.5	13:52	
1.767	155.612	56.5	13:54	
1.800	155.612	56.5	13:56	
1.833	155.612	56.5	13:58	
1.867	155.627	56.5	14: 0	
1.900	155.612	56.5	14: 2	
1.933	155.634	56.3	14: 4	
1.967	155.634	56.3	14: 6	
2.000	155.634	56.3	14: 8	
2.033	155.634	56.3	14:10	
2.067	155.634	56.3	14:12	
2.100	155.604	56.3	14:14	
2.133	155.634	56.3	14:16	
2.167	155.604	56.3	14:18	

END OF BUILD-UP PERIOD.

STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2, RUN 4. GAUGE 0120, SENSING DEPTH 1352.67 M. (MULTIRATE FLOW NO.2).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
-0.033	155.604	56.3	14:18
0.000	152.814	56.3	14:20
0.033	154.982	56.3	14:22
0.067	154.953	56.8	14:24
0.100	154.946	57.0	14:26
0.133	154.902	57.5	14:28
0.167	154.865	57.7	14:30
0.200	154.791	58.2	14:32
0.233	154.693	58.5	14:34
0.267	154.595	58.7	14:36
0.300	154.543	59.0	14:38
0.333	154.528	59.0	14:40
0.367	154.551	59.2	14:42
0.400	154.551	59.2	14:44
0.433	154.666	59.5	14:46
0.467	154.757	59.5	14:48
0.500	154.802	59.5	14:50
0.533	154.757	59.5	14:52
0.567	154.689	59.7	14:54
0.600	154.598	59.7	14:56
0.633	154.523	59.7	14:58
0.667	154.523	59.7	15: 0
0.700	154.508	59.7	15: 2
0.733	154.568	59.7	15: 4
0.767	154.659	59.7	15: 6
0.800	154.689	59.7	15: 8
0.833	154.720	59.7	15:10
0.867	154.720	59.7	15:12
0.900	154.689	59.7	15:14
0.933	154.674	59.7	15:16
0.967	154.659	59.7	15:18
1.000	154.659	59.7	15:20
1.033	154.659	59.7	15:22
1.067	154.674	59.7	15:24
1.100	154.659	59.7	15:26
1.133	154.598	59.7	15:28
1.167	154.538	59.7	15:30
1.200	154.538	59.7	15:32
1.233	154.538	59.7	15:34
1.267	154.538	59.7	15:36
1.300	154.568	59.7	15:38
1.333	154.598	59.7	15:40
1.367	154.629	59.7	15:42
1.400	154.629	59.7	15:44
1.433	154.644	59.7	15:46
1.467	154.659	59.7	15:48
1.500	154.644	59.7	15:50
1.533	154.629	59.7	15:52
1.567	154.629	59.7	15:54
1.600	154.629	59.7	15:56

5/10/83 OPEN PCT VALVE.  
FULLY OPEN CHOKE MANIFOLD.  
FLOWING THRU HEATER ON  
2 X 20/64" CHOKES.  
DIRECT FLOW THRU SEPERATOR.



STATOIL  
TROLL  
31/3-1OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2, RUN 4. GAUGE 0120, SENSING DEPTH 1352.67 M. (MULTIRATE FLOW NO.2).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.633	154.614	59.7	15:58	5/10/83
1.667	154.659	59.7	16: 0	
1.700	154.614	59.7	16: 2	
1.733	154.629	59.7	16: 4	
1.767	154.629	59.7	16: 6	
1.800	154.659	59.7	16: 8	
1.833	154.644	59.7	16:10	
1.867	154.659	59.7	16:12	
1.900	152.600	59.7	16:14	
1.933	152.418	59.7	16:16	
1.967	152.357	59.7	16:18	
2.000	152.418	59.7	16:20	
2.033	152.418	59.7	16:22	
2.067	152.433	59.7	16:24	
2.100	152.470	59.5	16:26	
2.133	152.470	59.5	16:28	
2.167	152.485	59.5	16:30	
2.200	152.485	59.5	16:32	
2.233	152.455	59.5	16:34	
2.267	152.485	59.5	16:36	
2.300	152.515	59.5	16:38	
2.333	152.485	59.5	16:40	
2.367	152.485	59.5	16:42	
2.400	152.500	59.5	16:44	
2.433	152.500	59.5	16:46	
2.467	152.515	59.5	16:48	
2.500	152.515	59.5	16:50	
2.533	152.515	59.5	16:52	
2.567	152.515	59.5	16:54	
2.600	152.515	59.5	16:56	
2.633	152.515	59.5	16:58	
2.667	152.500	59.5	17: 0	
2.700	152.515	59.5	17: 2	
2.733	152.500	59.5	17: 4	
2.767	152.515	59.5	17: 6	
2.800	152.515	59.5	17: 8	
2.833	152.515	59.5	17:10	
2.867	152.515	59.5	17:12	
2.900	152.515	59.5	17:14	
2.933	152.531	59.5	17:16	
2.967	152.546	59.5	17:18	
3.000	152.531	59.5	17:20	
3.033	152.515	59.5	17:22	
3.067	152.546	59.5	17:24	
3.100	152.546	59.5	17:26	
3.133	152.546	59.5	17:28	
3.167	152.515	59.5	17:30	
3.200	152.546	59.5	17:32	
3.233	152.546	59.5	17:34	
3.267	152.546	59.5	17:36	

INCREASE TO 2 X 32/64"  
CHOKES AT HEATER.

SPERRY-SUN INTERNATIONAL  
MAGNETIC RECORDING PRESSURE GAUGE REPORT

TAOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2; RUN 4. GAUGE 0120; SENSING DEPTH 1352.67 M. (MULTIRATE FLOW NO.2).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
3.300	152.546	59.5	17:38	5/10/83
3.333	152.531	59.5	17:40	
3.367	152.531	59.5	17:42	
3.400	152.561	59.5	17:44	
3.433	152.546	59.5	17:46	
3.467	152.546	59.5	17:48	
3.500	152.531	59.5	17:50	
3.533	152.546	59.5	17:52	
3.567	152.546	59.5	17:54	
3.600	152.546	59.5	17:56	
3.633	152.515	59.5	17:58	
3.667	152.531	59.5	18: 0	
3.700	152.561	59.5	18: 2	
3.733	147.458	59.5	18: 4	
3.767	147.404	59.2	18: 6	
3.800	147.404	59.2	18: 8	
3.833	147.410	59.0	18:10	
3.867	147.410	59.0	18:12	
3.900	147.386	58.7	18:14	
3.933	147.401	58.7	18:16	
3.967	147.407	58.5	18:18	
4.000	147.371	58.7	18:20	
4.033	147.355	58.7	18:22	
4.067	147.377	58.5	18:24	
4.100	147.362	58.5	18:26	
4.133	147.362	58.5	18:28	
4.167	147.347	58.5	18:30	
4.200	147.362	58.5	18:32	
4.233	147.331	58.5	18:34	
4.267	147.331	58.5	18:36	
4.300	147.331	58.5	18:38	
4.333	147.331	58.5	18:40	
4.367	147.331	58.5	18:42	
4.400	147.316	58.5	18:44	
4.433	147.316	58.5	18:46	
4.467	147.331	58.5	18:48	
4.500	147.331	58.5	18:50	
4.533	147.316	58.5	18:52	
4.567	147.301	58.5	18:54	
4.600	147.301	58.5	18:56	
4.633	147.301	58.5	18:58	
4.667	147.316	58.5	19: 0	
4.700	147.301	58.5	19: 2	
4.733	147.301	58.5	19: 4	
4.767	147.301	58.5	19: 6	
4.800	147.301	58.5	19: 8	
4.833	147.301	58.5	19:10	
4.867	147.286	58.5	19:12	
4.900	147.286	58.5	19:14	
4.933	147.286	58.5	19:16	

BYPASS HEATER.

SPERRY-SUN INTERNATIONAL  
MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2; RUN 4. GAUGE 0120; SENSING DEPTH 1352.67 M. (MULTIRATE FLOW NO.2).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
4.967	147.271	58.5	19:18	5/10/83
5.000	147.271	58.5	19:20	
5.033	147.286	58.5	19:22	
5.067	147.271	58.5	19:24	
5.100	147.301	58.5	19:26	
5.133	147.301	58.5	19:28	
5.167	147.271	58.5	19:30	
5.200	147.286	58.5	19:32	
5.233	147.271	58.5	19:34	
5.267	147.271	58.5	19:36	
5.300	147.286	58.5	19:38	
5.333	147.271	58.5	19:40	
5.367	147.271	58.5	19:42	
5.400	147.286	58.5	19:44	
5.433	147.271	58.5	19:46	
5.467	147.286	58.5	19:48	
5.500	147.286	58.5	19:50	
5.533	147.271	58.5	19:52	
5.567	147.286	58.5	19:54	
5.600	147.271	58.5	19:56	
5.633	147.286	58.5	19:58	
5.667	147.286	58.5	20: 0	
5.700	147.271	58.5	20: 2	
5.733	147.240	58.5	20: 4	
5.767	147.134	58.5	20: 6	

BYPASS SEPERATOR.

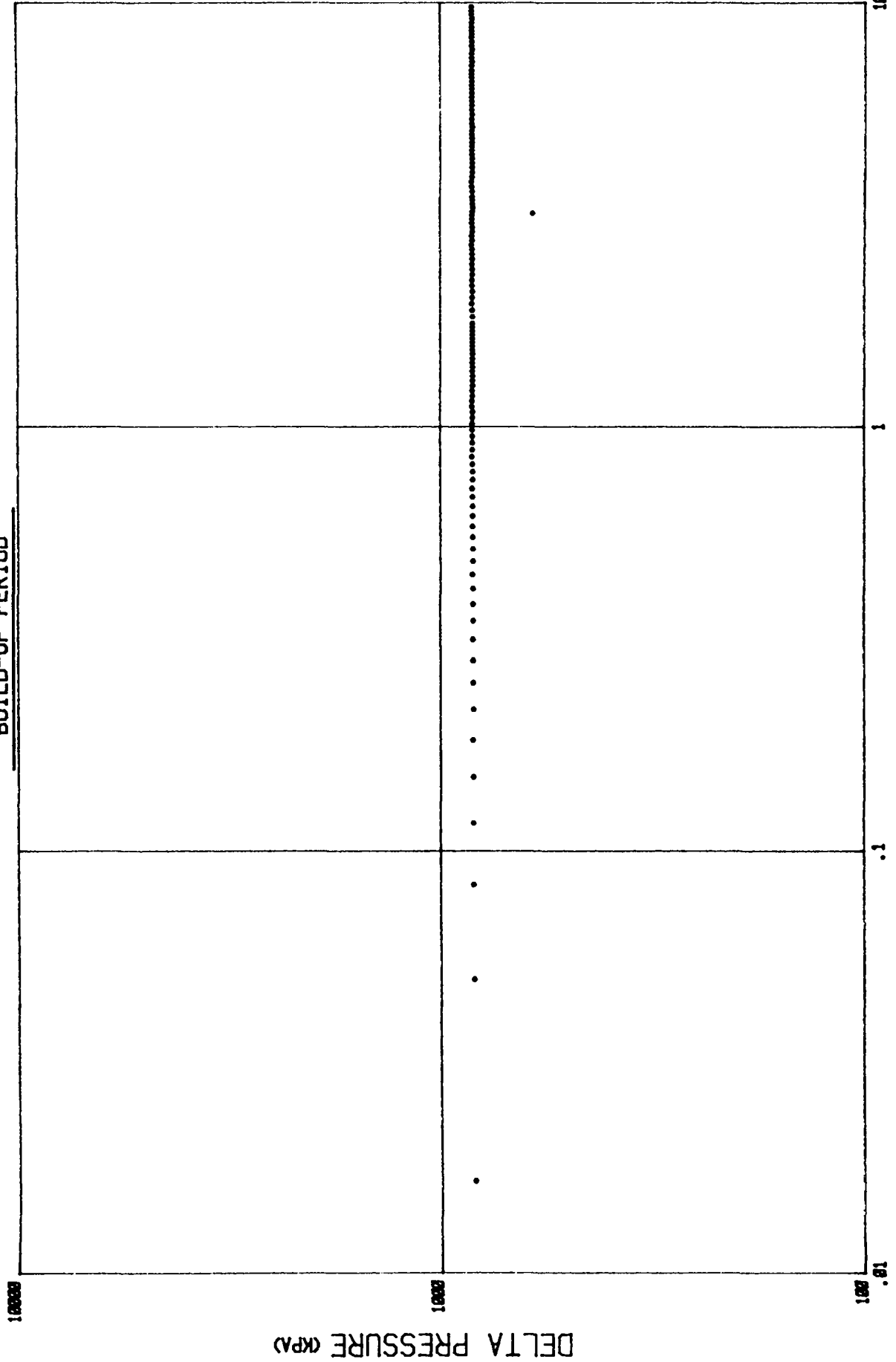
END OF FLOW PERIOD.

STATOIL  
WELL NO. 31/3-1  
TROLL

NL Sperry-Sun, Inc.  
LOG (dP) Vs LOG (dT) PLOT

05 OCTOBER 1983  
MK111A 8128  
D1811B

TEST NO. 2 RUN NO. 4 (Multirate Flow No. 2)  
BUILD-UP PERIOD



SHUT-IN TIME = 1052 mins.  
FINAL DELTA TIME = 1845 mins.

DELTA TIME

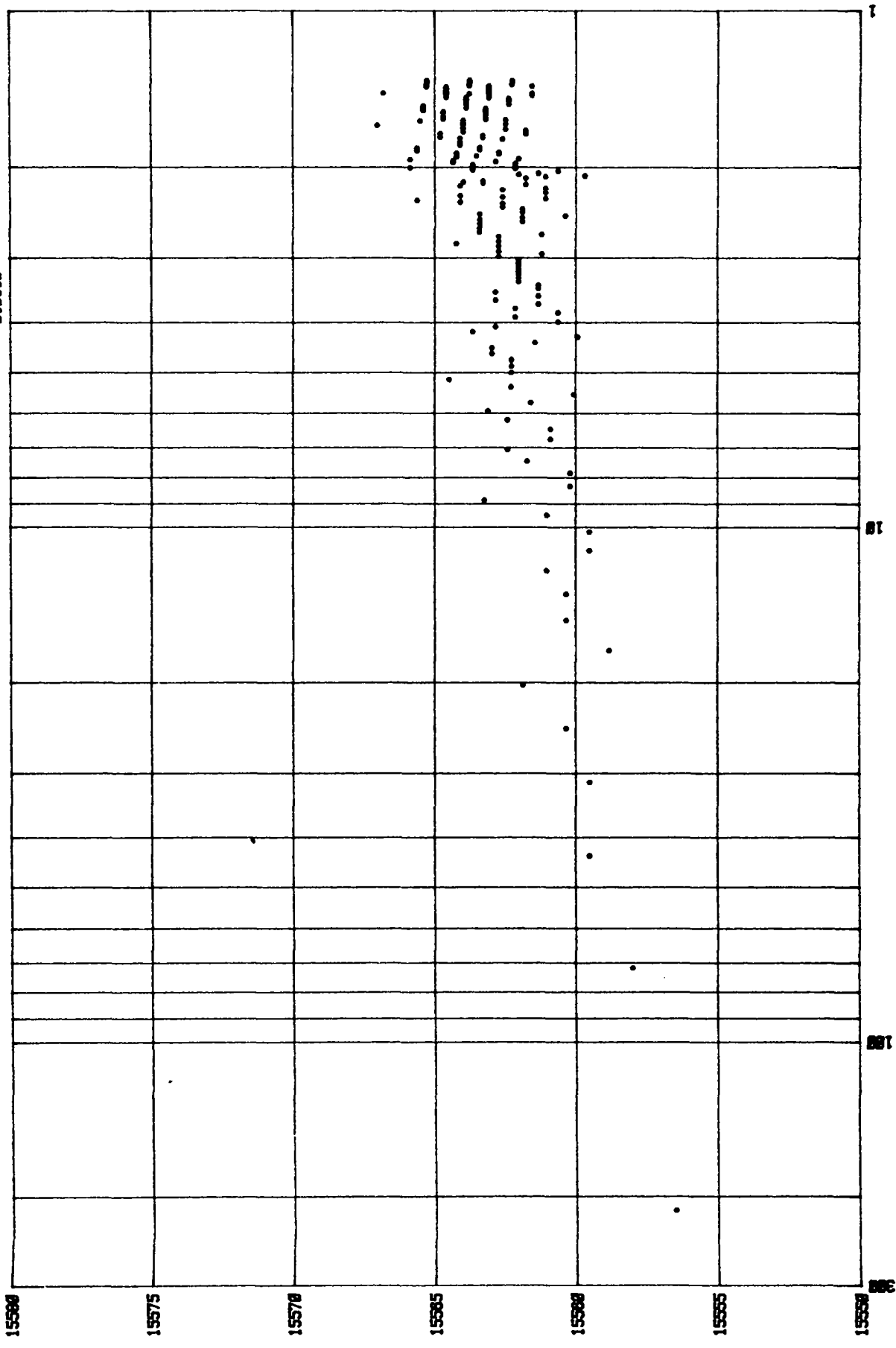
DELTA TIME IS IN HOURS

05 OCTOBER 1983

# NL Sperry-Sun, Inc. HORNER PLOT

STATOIL  
WELL NO. 31/3-1  
TROLL

MK111A 0120  
D1011B



Scale: 1 inch = 5 kPa  
PRESSURE

TEST NO. 2 RUN NO. 4 (Post Multirate Flow 2)  
SHUT-IN TIME = 1052 mins.  
FINAL DELTA TIME = 1645 mins.

T = 3.5333 hours

(T+dT)/dT

10/22/83

SPERRY-SUN INTERNATIONAL  
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

POST 2, RUN 4. GAUGE 0120, SENSING DEPTH 1352.67 M. (MULTIRATE TEST 2 BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
-0.017	147.134	58.5	20: 6
0.017	155.565	58.7	20: 8
0.050	155.580	58.7	20:10
0.083	155.595	58.7	20:12
0.117	155.595	58.7	20:14
0.150	155.603	59.0	20:16
0.183	155.618	59.0	20:18
0.217	155.588	59.0	20:20
0.250	155.603	59.0	20:22
0.283	155.603	59.0	20:24
0.317	155.610	58.7	20:26
0.350	155.595	58.7	20:28
0.383	155.595	58.7	20:30
0.417	155.610	58.7	20:32
0.450	155.632	58.5	20:34
0.483	155.602	58.5	20:36
0.517	155.602	58.5	20:38
0.550	155.617	58.5	20:40
0.583	155.624	58.2	20:42
0.617	155.609	58.2	20:44
0.650	155.609	58.2	20:46
0.683	155.624	58.2	20:48
0.717	155.631	58.0	20:50
0.750	155.616	58.0	20:52
0.783	155.600	58.0	20:54
0.817	155.623	57.7	20:56
0.850	155.645	57.5	20:58
0.883	155.623	57.7	21: 0
0.917	155.623	57.7	21: 2
0.950	155.623	57.7	21: 4
0.983	155.629	57.5	21: 6
1.017	155.629	57.5	21: 8
1.050	155.614	57.5	21:10
1.083	155.599	57.5	21:12
1.117	155.636	57.2	21:14
1.150	155.628	57.0	21:16
1.183	155.606	57.2	21:18
1.217	155.621	57.2	21:20
1.250	155.606	57.2	21:22
1.283	155.621	57.2	21:24
1.317	155.613	57.0	21:26
1.350	155.628	57.0	21:28
1.383	155.613	57.0	21:30
1.417	155.628	57.0	21:32
1.450	155.613	57.0	21:34
1.483	155.613	57.0	21:36
1.517	155.620	56.8	21:38
1.550	155.620	56.8	21:40
1.583	155.620	56.8	21:42
1.617	155.620	56.8	21:44

5/10/83 CLOSE PCT VALVE &  
CHOKER MANIFOLD.

10/22/83

SPERRY-SUN INTERNATIONAL  
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 2

STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2; RUN 4. GAUGE 0120; SENSING DEPTH 1352.67 M. (MULTIRATE TEST 2 BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.650	155.620	56.8	21:46	5/10/83
1.683	155.620	56.8	21:48	
1.717	155.620	56.8	21:50	
1.750	155.620	56.8	21:52	
1.783	155.627	56.5	21:54	
1.817	155.612	56.5	21:56	
1.850	155.627	56.5	21:58	
1.883	155.627	56.5	22: 0	
1.917	155.627	56.5	22: 2	
1.950	155.642	56.5	22: 4	
1.983	155.627	56.5	22: 6	
2.017	155.627	56.5	22: 8	
2.050	155.627	56.5	22:10	
2.083	155.612	56.5	22:12	
2.117	155.634	56.3	22:14	
2.150	155.634	56.3	22:16	
2.183	155.634	56.3	22:18	
2.217	155.634	56.3	22:20	
2.250	155.634	56.3	22:22	
2.283	155.619	56.3	22:24	
2.317	155.634	56.3	22:26	
2.350	155.619	56.3	22:28	
2.383	155.604	56.3	22:30	
2.417	155.634	56.3	22:32	
2.450	155.619	56.3	22:34	
2.483	155.619	56.3	22:36	
2.517	155.619	56.3	22:38	
2.550	155.626	56.0	22:40	
2.583	155.626	56.0	22:42	
2.617	155.626	56.0	22:44	
2.650	155.641	56.0	22:46	
2.683	155.656	56.0	22:48	
2.717	155.611	56.0	22:50	
2.750	155.626	56.0	22:52	
2.783	155.641	56.0	22:54	
2.817	155.641	56.0	22:56	
2.850	155.611	56.0	22:58	
2.883	155.611	56.0	23: 0	
2.917	155.626	56.0	23: 2	
2.950	155.611	56.0	23: 4	
2.983	155.611	56.0	23: 6	
3.017	155.641	56.0	23: 8	
3.050	155.618	55.8	23:10	
3.083	155.633	55.8	23:12	
3.117	155.640	55.5	23:14	
3.150	155.633	55.8	23:16	
3.183	153.282	55.8	23:18	
3.217	155.618	55.8	23:20	
3.250	155.611	56.0	23:22	
3.283	155.597	56.5	23:24	

PCTV LEAKING -  
OPEN PCT VALVE.

STATOIL  
TROLL  
31/3-1OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2, RUN 4. GAUGE 0120, SENSING DEPTH 1352.67 M. (MULTIRATE TEST 2 BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
3.317	155.620	56.8	23:26	5/10/83
3.350	155.613	57.0	23:28	
3.383	155.613	57.0	23:30	
3.417	155.606	57.2	23:32	
3.450	155.636	57.2	23:34	
3.483	155.621	57.2	23:36	
3.517	155.659	57.0	23:38	
3.550	155.636	57.2	23:40	
3.583	155.621	57.2	23:42	
3.617	155.636	57.2	23:44	
3.650	155.621	57.2	23:46	
3.683	155.643	57.0	23:48	
3.717	155.628	57.0	23:50	
3.750	155.643	57.0	23:52	
3.783	155.659	57.0	23:54	
3.817	155.620	56.8	23:56	
3.850	155.620	56.8	23:58	
3.883	155.642	56.5	0: 0	6/10/83
3.917	155.635	56.8	0: 2	
3.950	155.642	56.5	0: 4	
3.983	155.627	56.5	0: 6	
4.017	155.642	56.5	0: 8	
4.050	155.627	56.5	0:10	
4.083	155.627	56.5	0:12	
4.117	155.656	56.0	0:14	
4.150	155.634	56.3	0:16	
4.183	155.634	56.3	0:18	
4.217	155.656	56.0	0:20	
4.250	155.634	56.3	0:22	
4.283	155.634	56.3	0:24	
4.317	155.634	56.3	0:26	
4.350	155.641	56.0	0:28	
4.383	155.641	56.0	0:30	
4.417	155.641	56.0	0:32	
4.450	155.641	56.0	0:34	
4.483	155.641	56.0	0:36	
4.517	155.641	56.0	0:38	
4.550	155.641	56.0	0:40	
4.583	155.641	56.0	0:42	
4.617	155.626	56.0	0:44	
4.650	155.641	56.0	0:46	
4.683	155.633	55.8	0:48	
4.717	155.648	55.8	0:50	
4.750	155.648	55.8	0:52	
4.783	155.633	55.8	0:54	
4.817	155.633	55.8	0:56	
4.850	155.618	55.8	0:58	
4.883	155.648	55.8	1: 0	
4.917	155.648	55.8	1: 2	
4.950	155.618	55.8	1: 4	



10/22/83

SPERRY-SUN INTERNATIONAL  
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STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2, RUN 4. GAUGE 0120, SENSING DEPTH 1352.67 M. (MULTIRATE TEST 2 BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
4.983	155.640	55.5	1: 6	6/10/83
5.017	155.640	55.5	1: 8	
5.050	155.618	55.8	1:10	
5.083	155.618	55.8	1:12	
5.117	155.625	55.5	1:14	
5.150	155.625	55.5	1:16	
5.183	155.640	55.5	1:18	
5.217	155.640	55.5	1:20	
5.250	155.640	55.5	1:22	
5.283	155.640	55.5	1:24	
5.317	155.640	55.5	1:26	
5.350	155.670	55.5	1:28	
5.383	155.640	55.5	1:30	
5.417	155.625	55.5	1:32	
5.450	155.625	55.5	1:34	
5.483	155.640	55.5	1:36	
5.517	155.640	55.5	1:38	
5.550	155.640	55.5	1:40	
5.583	155.640	55.5	1:42	
5.617	155.655	55.5	1:44	
5.650	155.640	55.5	1:46	
5.683	155.625	55.5	1:48	
5.717	155.632	55.3	1:50	
5.750	155.647	55.3	1:52	
5.783	155.632	55.3	1:54	
5.817	155.632	55.3	1:56	
5.850	155.632	55.3	1:58	
5.883	155.632	55.3	2: 0	
5.917	155.647	55.3	2: 2	
5.950	155.647	55.3	2: 4	
5.983	155.647	55.3	2: 6	
6.017	155.632	55.3	2: 8	
6.050	155.632	55.3	2:10	
6.083	155.632	55.3	2:12	
6.117	155.632	55.3	2:14	
6.150	155.632	55.3	2:16	
6.183	155.647	55.3	2:18	
6.217	155.632	55.3	2:20	
6.250	155.632	55.3	2:22	
6.283	155.647	55.3	2:24	
6.317	155.632	55.3	2:26	
6.350	155.632	55.3	2:28	
6.383	155.654	55.0	2:30	
6.417	155.632	55.3	2:32	
6.450	155.632	55.3	2:34	
6.483	155.654	55.0	2:36	
6.517	155.632	55.3	2:38	
6.550	155.654	55.0	2:40	
6.583	155.639	55.0	2:42	
6.617	155.639	55.0	2:44	

STATOIL  
TROLL  
31/3-1OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2, RUN 4. GAUGE 0120, SENSING DEPTH 1352.67 M. (MULTIRATE TEST 2 BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
6.650	155.639	55.0	2:46	6/10/83
6.683	155.639	55.0	2:48	
6.717	155.639	55.0	2:50	
6.750	155.654	55.0	2:52	
6.783	155.654	55.0	2:54	
6.817	155.639	55.0	2:56	
6.850	155.639	55.0	2:58	
6.883	155.623	55.0	3: 0	
6.917	155.639	55.0	3: 2	
6.950	155.639	55.0	3: 4	
6.983	155.639	55.0	3: 6	
7.017	155.639	55.0	3: 8	
7.050	155.639	55.0	3:10	
7.083	155.639	55.0	3:12	
7.117	155.623	55.0	3:14	
7.150	155.639	55.0	3:16	
7.183	155.639	55.0	3:18	
7.217	155.639	55.0	3:20	
7.250	155.623	55.0	3:22	
7.283	155.639	55.0	3:24	
7.317	155.623	55.0	3:26	
7.350	155.639	55.0	3:28	
7.383	155.623	55.0	3:30	
7.417	155.639	55.0	3:32	
7.450	155.639	55.0	3:34	
7.483	155.630	54.8	3:36	
7.517	155.639	55.0	3:38	
7.550	155.646	54.8	3:40	
7.583	155.646	54.8	3:42	
7.617	155.646	54.8	3:44	
7.650	155.646	54.8	3:46	
7.683	155.646	54.8	3:48	
7.717	155.630	54.8	3:50	
7.750	155.615	54.8	3:52	
7.783	155.646	54.8	3:54	
7.817	155.646	54.8	3:56	
7.850	155.646	54.8	3:58	
7.883	155.630	54.8	4: 0	
7.917	155.646	54.8	4: 2	
7.950	155.638	54.5	4: 4	
7.983	155.615	54.8	4: 6	
8.017	155.668	54.5	4: 8	
8.050	155.646	54.8	4:10	
8.083	155.630	54.8	4:12	
8.117	155.630	54.8	4:14	
8.150	155.646	54.8	4:16	
8.183	155.646	54.8	4:18	
8.217	155.630	54.8	4:20	
8.250	155.646	54.8	4:22	
8.283	155.630	54.8	4:24	

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STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30180

DST 2, RUN 4. GAUGE 0120, SENSING DEPTH 1352.67 M. (MULTIRATE TEST 2 BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
8.317	155.646	54.8	4:26	6/10/83
8.350	155.630	54.8	4:28	
8.383	155.630	54.8	4:30	
8.417	155.630	54.8	4:32	
8.450	155.630	54.8	4:34	
8.483	155.630	54.8	4:36	
8.517	155.646	54.8	4:38	
8.550	155.630	54.8	4:40	
8.583	155.646	54.8	4:42	
8.617	155.630	54.8	4:44	
8.650	155.630	54.8	4:46	
8.683	155.630	54.8	4:48	
8.717	155.630	54.8	4:50	
8.750	155.646	54.8	4:52	
8.783	155.630	54.8	4:54	
8.817	155.653	54.5	4:56	
8.850	155.630	54.8	4:58	
8.883	155.615	54.8	5: 0	
8.917	155.653	54.5	5: 2	
8.950	155.638	54.5	5: 4	
8.983	155.638	54.5	5: 6	
9.017	155.653	54.5	5: 8	
9.050	155.653	54.5	5:10	
9.083	155.622	54.5	5:12	
9.117	155.653	54.5	5:14	
9.150	155.622	54.5	5:16	
9.183	155.622	54.5	5:18	
9.217	155.638	54.5	5:20	
9.250	155.638	54.5	5:22	
9.283	155.622	54.5	5:24	
9.317	155.638	54.5	5:26	
9.350	155.653	54.5	5:28	
9.383	155.638	54.5	5:30	
9.417	155.638	54.5	5:32	
9.450	155.638	54.5	5:34	
9.483	155.653	54.5	5:36	
9.517	155.638	54.5	5:38	
9.550	155.653	54.5	5:40	
9.583	155.622	54.5	5:42	
9.617	155.638	54.5	5:44	
9.650	155.638	54.5	5:46	
9.683	155.622	54.5	5:48	
9.717	155.622	54.5	5:50	
9.750	155.653	54.5	5:52	
9.783	155.638	54.5	5:54	
9.817	155.638	54.5	5:56	
9.850	155.638	54.5	5:58	
9.883	155.638	54.5	6: 0	

END OF TEST.

PRESSURE Scales 1 inch = 25 BARS

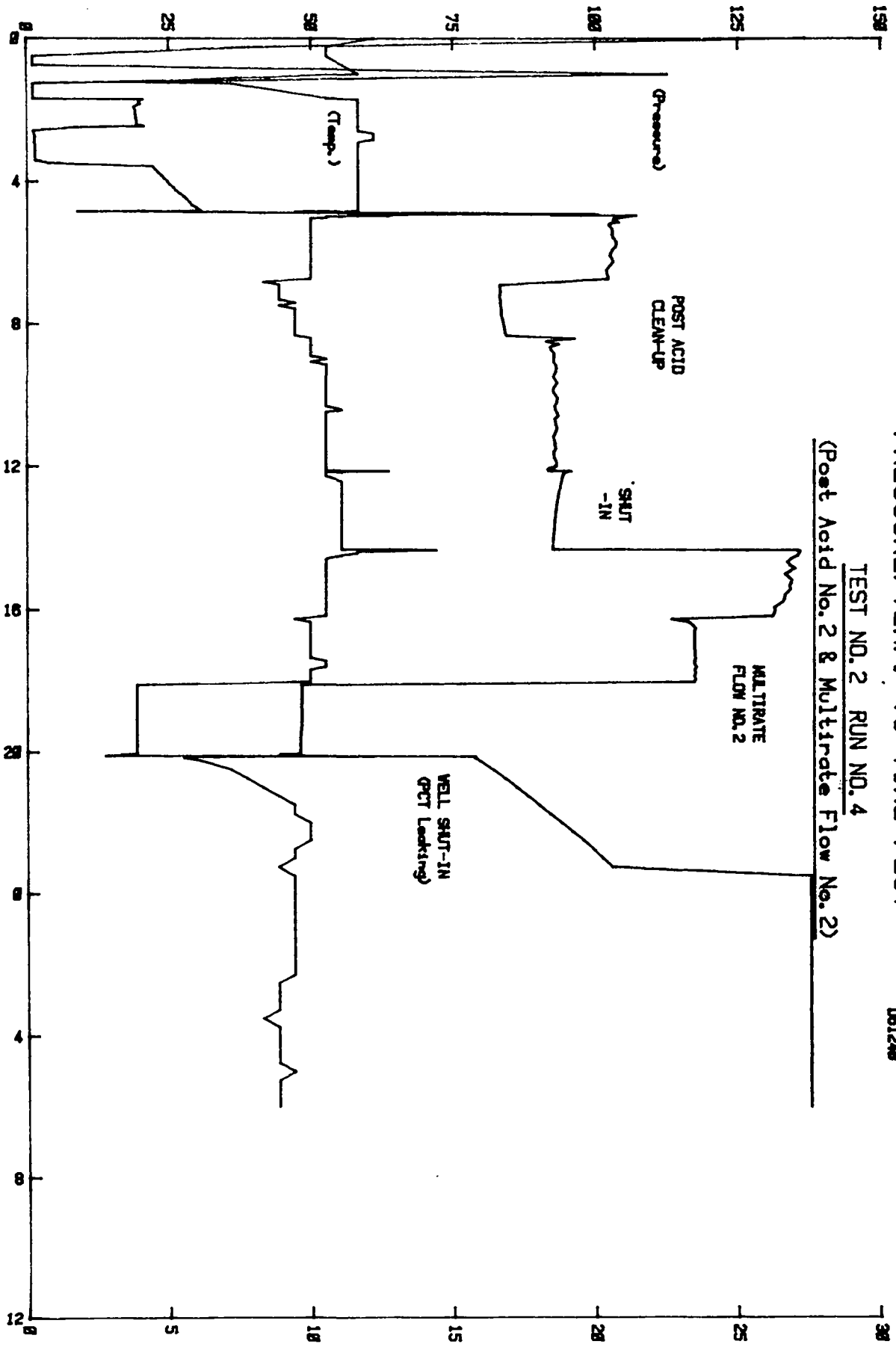
STATOIL  
WELL NO. 31/3-1  
TROLL

# NL Sperry-Sun, Inc.

## PRESSURE/TEMP. vs TIME PLOT

05 OCTOBER 1989  
NR-6 UPSTREAM CHOKE  
061248

TEST NO. 2 RUN NO. 4  
(Post Acid No. 2 & Multirate Flow No. 2)



REAL TIME  
Scales 1 inch = 4 hours

TEMPERATURE Scales 1 inch = 5 (deg. C)

0/22/83

SPERRY-SUN INTERNATIONAL  
MR-SIX PRESSURE GAUGE REPORT

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STATOIL  
TROLL  
31/3-1OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30179

DST 2, RUN 4. UPSTREAM CHOKE DATA. (ACID JOB NO.2).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	136.758	12.2	0: 0: 0	5/10/83 (SECOND STIMULATION PROCEDURE).
0.250	39.128	10.6	0:15: 0	
0.500	1.069	10.6	0:30: 0	
0.750	1.069	11.1	0:45: 0	
1.000	112.695	11.7	1: 0: 0	
1.217	17.961	3.3	1:13: 0	
1.233	7.136	5.0	1:14: 0	
1.250	2.448	6.7	1:15: 0	
1.267	1.069	7.2	1:16: 0	
1.683	1.069	10.6	1:41: 0	
1.700	1.069	10.6	1:42: 0	
1.717	20.512	11.7	1:43: 0	
1.733	19.892	11.7	1:44: 0	
1.750	19.892	11.7	1:45: 0	
1.767	19.823	11.7	1:46: 0	
1.783	19.754	11.7	1:47: 0	
1.800	19.892	11.7	1:48: 0	
1.817	19.892	11.7	1:49: 0	
1.833	19.961	11.7	1:50: 0	
1.917	18.857	11.7	1:55: 0	
2.000	19.133	11.7	2: 0: 0	
2.083	19.133	11.7	2: 5: 0	
2.167	19.202	11.7	2:10: 0	
2.250	19.271	11.7	2:15: 0	
2.333	19.409	11.7	2:20: 0	
2.417	19.409	11.7	2:25: 0	
2.433	20.374	11.7	2:26: 0	
2.450	20.581	11.7	2:27: 0	
2.467	13.686	11.7	2:28: 0	
2.483	8.929	11.7	2:29: 0	
2.583	1.069	11.7	2:35: 0	
2.667	1.345	12.2	2:40: 0	
2.750	1.414	12.2	2:45: 0	
2.833	1.345	12.2	2:50: 0	
2.917	1.345	11.7	2:55: 0	
3.000	1.483	11.7	3: 0: 0	
3.417	1.483	11.7	3:25: 0	
3.500	3.827	11.7	3:30: 0	RIH WITH DOWNHOLE GAUGES.
3.583	22.167	11.7	3:35: 0	
3.667	22.650	11.7	3:40: 0	
3.750	23.132	11.7	3:45: 0	
3.833	23.753	11.7	3:50: 0	
3.917	24.235	11.7	3:55: 0	
4.000	24.787	11.7	4: 0: 0	
4.083	25.132	11.7	4: 5: 0	
4.167	25.821	11.7	4:10: 0	
4.250	26.235	11.7	4:15: 0	DOWNHOLE GAUGES IN NIPPLE.
4.333	26.855	11.7	4:20: 0	
4.417	27.614	11.7	4:25: 0	
4.500	28.165	11.7	4:30: 0	

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MR-SIX PRESSURE GAUGE REPORT

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STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30179

DST 2; RUN 4. UPSTREAM CHOKE DATA. (ACID JOB NO.2).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
4.583	28.648	11.7	4:35: 0	5/10/83
4.667	29.062	11.7	4:40: 0	
4.750	29.889	11.7	4:45: 0	
4.833	30.647	11.7	4:50: 0	

WELL OPENED TO FLOW

STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30179

DST 2, RUN 4. UPSTREAM CHOKE DATA. (POST ACID NO.2 FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
0.000	30.647	11.7	4:50: 0
0.017	8.860	10.6	4:51: 0
0.025	20.374	10.0	4:51:30
0.033	28.027	9.4	4:52: 0
0.042	34.853	10.6	4:52:30
0.050	41.127	12.2	4:53: 0
0.058	48.781	14.4	4:53:30
0.067	57.882	15.6	4:54: 0
0.075	65.742	16.1	4:54:30
0.083	77.463	17.8	4:55: 0
0.092	94.907	20.0	4:55:30
0.100	100.629	17.8	4:56: 0
0.108	94.424	14.4	4:56:30
0.117	92.424	12.8	4:57: 0
0.125	97.182	12.2	4:57:30
0.133	107.386	12.8	4:58: 0
0.142	106.559	11.7	4:58:30
0.150	106.007	11.1	4:59: 0
0.158	105.662	11.1	4:59:30
0.167	105.318	10.6	5: 0: 0
0.175	105.042	10.6	5: 0:30
0.183	104.559	10.6	5: 1: 0
0.192	104.215	10.6	5: 1:30
0.200	103.939	10.6	5: 2: 0
0.208	103.663	10.6	5: 2:30
0.217	103.525	10.0	5: 3: 0
0.225	103.525	10.0	5: 3:30
0.233	103.525	10.0	5: 4: 0
0.242	103.456	10.0	5: 4:30
0.250	103.387	10.0	5: 5: 0
0.267	103.663	10.0	5: 6: 0
0.283	103.870	10.0	5: 7: 0
0.300	104.077	10.0	5: 8: 0
0.317	104.215	10.0	5: 9: 0
0.333	103.111	10.0	5:10: 0
0.350	102.836	10.0	5:11: 0
0.367	102.698	10.0	5:12: 0
0.383	102.560	10.0	5:13: 0
0.400	102.560	10.0	5:14: 0
0.417	102.698	10.0	5:15: 0
0.500	103.111	10.0	5:20: 0
0.583	103.180	10.0	5:25: 0
0.667	103.111	10.0	5:30: 0
0.750	103.318	10.0	5:35: 0
0.833	103.801	10.0	5:40: 0
0.917	103.870	10.0	5:45: 0
1.000	103.732	10.0	5:50: 0
1.083	103.180	10.0	5:55: 0
1.167	102.904	10.0	6: 0: 0
1.250	102.767	10.0	6: 5: 0

5/10/83 WELL OPENED ON 64/64"  
CHOKE AT MANIFOLD.

GAS TO SURFACE.

DIRECT FLOW THRU HEATER  
ON 2 X 64/64" CHOKES.

STATOIL  
TROLL  
31/3-1OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30179

DST 2, RUN 4. UPSTREAM CHOKE DATA. (POST ACID NO.2 FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.333	103.111	10.0	6:10: 0	5/10/83
1.417	103.318	10.0	6:15: 0	
1.500	102.904	10.0	6:20: 0	
1.583	102.491	10.0	6:25: 0	
1.667	102.146	10.0	6:30: 0	
1.750	102.215	10.0	6:35: 0	
1.833	102.422	10.0	6:40: 0	
1.917	102.491	10.0	6:45: 0	
2.000	93.872	8.3	6:50: 0	
2.083	83.323	8.9	6:55: 0	
2.167	83.392	8.9	7: 0: 0	
2.250	83.461	8.9	7: 5: 0	
2.333	83.392	8.9	7:10: 0	
2.417	83.323	8.9	7:15: 0	
2.500	83.461	8.9	7:20: 0	
2.583	83.461	9.4	7:25: 0	
2.667	83.530	8.9	7:30: 0	
2.750	83.599	9.4	7:35: 0	
2.833	83.668	9.4	7:40: 0	
2.917	83.599	9.4	7:45: 0	
3.000	83.806	9.4	7:50: 0	
3.083	83.944	9.4	7:55: 0	
3.167	84.013	9.4	8: 0: 0	
3.250	84.151	9.4	8: 5: 0	
3.333	84.220	9.4	8:10: 0	
3.417	84.289	9.4	8:15: 0	
3.500	84.495	9.4	8:20: 0	
3.583	96.561	10.0	8:25: 0	
3.667	91.459	10.0	8:30: 0	
3.750	93.734	10.0	8:35: 0	
3.833	92.218	10.0	8:40: 0	
3.917	92.424	10.0	8:45: 0	
4.000	92.907	10.0	8:50: 0	
4.083	92.907	10.0	8:55: 0	
4.167	92.838	10.6	9: 0: 0	
4.250	92.838	10.0	9: 5: 0	
4.333	93.183	10.6	9:10: 0	
4.417	93.321	10.6	9:15: 0	
4.500	93.183	10.6	9:20: 0	
4.583	92.907	10.6	9:25: 0	
4.667	92.907	10.6	9:30: 0	
4.750	93.252	10.6	9:35: 0	
4.833	93.528	10.6	9:40: 0	
4.917	93.114	10.6	9:45: 0	
5.000	92.838	10.6	9:50: 0	
5.083	92.907	10.6	9:55: 0	
5.167	93.252	10.6	10: 0: 0	
5.250	93.597	10.6	10: 5: 0	
5.333	93.528	10.6	10:10: 0	
5.417	93.390	10.6	10:15: 0	

BYPASS HEATER.

DIRECT FLOW THRU HEATER  
ON 2 X 64/64" CHOKES.  
(FLOWING THRU SEPERATOR).



10/22/83

SPERRY-SUN INTERNATIONAL  
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STATOIL  
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OFFSHORE NORWAY  
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DST 2, RUN 4. UPSTREAM CHOKE DATA. (POST ACID NO.2 FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
5.500	93.114	10.6	10:20: 0	5/10/83
5.583	93.252	11.1	10:25: 0	
5.667	93.528	10.6	10:30: 0	
5.750	93.734	10.6	10:35: 0	
5.833	93.114	10.6	10:40: 0	
5.917	93.252	10.6	10:45: 0	
6.000	93.321	10.6	10:50: 0	
6.083	93.528	10.6	10:55: 0	
6.167	93.390	10.6	11: 0: 0	
6.250	93.114	10.6	11: 5: 0	
6.333	92.907	10.6	11:10: 0	
6.417	93.045	10.6	11:15: 0	
6.500	93.183	10.6	11:20: 0	
6.583	93.183	10.6	11:25: 0	
6.667	93.321	10.6	11:30: 0	
6.750	92.976	10.6	11:35: 0	
6.833	92.976	10.6	11:40: 0	
6.917	93.045	10.6	11:45: 0	
7.000	93.321	10.6	11:50: 0	
7.083	93.459	10.6	11:55: 0	
7.167	93.390	10.6	12: 0: 0	
7.175	93.252	10.6	12: 0:30	
7.183	93.114	10.6	12: 1: 0	
7.192	93.045	10.6	12: 1:30	
7.200	92.907	10.6	12: 2: 0	
7.208	92.562	10.6	12: 2:30	
7.217	92.424	10.6	12: 3: 0	
7.225	92.218	10.6	12: 3:30	
7.233	92.080	10.6	12: 4: 0	
7.242	92.080	10.6	12: 4:30	
7.250	91.942	10.6	12: 5: 0	
7.258	91.942	10.6	12: 5:30	
7.267	91.942	10.6	12: 6: 0	
7.275	91.942	10.6	12: 6:30	
7.283	92.011	10.6	12: 7: 0	
7.292	92.424	10.6	12: 7:30	

BYPASS SEPERATOR.

END OF FLOW PERIOD.

10/22/83

SPERRY-SUN INTERNATIONAL  
MR-SIX PRESSURE GAUGE REPORT

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STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30179

DST 2, RUN 4. UPSTREAM CHOKE DATA. (POST ACID NO.2 BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
-0.008	92.424	10.6	12: 7:30
0.000	96.010	12.8	12: 8: 0
0.008	95.734	11.7	12: 8:30
0.017	95.320	11.1	12: 9: 0
0.025	95.113	11.1	12: 9:30
0.033	94.976	11.1	12:10: 0
0.042	94.907	10.6	12:10:30
0.050	94.838	10.6	12:11: 0
0.058	94.769	10.6	12:11:30
0.067	94.769	10.6	12:12: 0
0.075	94.700	10.6	12:12:30
0.083	94.631	10.6	12:13: 0
0.092	94.631	10.6	12:13:30
0.100	94.631	10.6	12:14: 0
0.108	94.562	10.6	12:14:30
0.117	94.562	10.6	12:15: 0
0.125	94.562	10.6	12:15:30
0.133	94.493	10.6	12:16: 0
0.283	94.286	11.1	12:25: 0
0.617	93.803	11.1	12:45: 0
0.867	93.528	11.1	13: 0: 0
1.117	93.321	11.1	13:15: 0
1.367	93.114	11.1	13:30: 0
1.617	93.045	11.1	13:45: 0
1.867	92.838	11.1	14: 0: 0
2.117	92.769	11.1	14:15: 0
2.183	92.769	11.1	14:19: 0

5/10/83 CLOSE PCT VALVE &  
CHOKE MANIFOLD.

END OF BUILD-UP PERIOD.

10/22/83

SPERRY-SUN INTERNATIONAL  
MR-SIX PRESSURE GAUGE REPORT

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STATOIL  
TROLL  
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OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30179

DST 2, RUN 4. UPSTREAM CHOKE DATA. (MULTIRATE FLOW NO.2).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
-0.017	92.769	11.1	14:19: 0
-0.008	103.732	12.8	14:19:30
0.000	126.691	14.4	14:20: 0
0.008	135.241	14.4	14:20:30
0.017	135.861	13.3	14:21: 0
0.025	136.068	13.3	14:21:30
0.033	136.206	12.8	14:22: 0
0.042	136.206	12.2	14:22:30
0.050	136.137	12.2	14:23: 0
0.058	136.068	11.7	14:23:30
0.067	136.068	11.7	14:24: 0
0.075	136.068	11.7	14:24:30
0.083	136.068	11.7	14:25: 0
0.150	135.792	11.1	14:29: 0
0.250	134.551	10.6	14:35: 0
0.333	134.000	10.6	14:40: 0
0.417	134.482	10.6	14:45: 0
0.500	135.379	10.6	14:50: 0
0.583	134.482	10.6	14:55: 0
0.667	133.655	10.6	15: 0: 0
0.750	134.276	10.6	15: 5: 0
0.833	134.827	10.6	15:10: 0
0.917	134.620	10.6	15:15: 0
1.000	134.414	10.6	15:20: 0
1.083	134.551	10.6	15:25: 0
1.167	134.138	10.6	15:30: 0
1.250	133.586	10.6	15:35: 0
1.333	133.517	10.6	15:40: 0
1.417	133.310	10.6	15:45: 0
1.500	132.552	10.6	15:50: 0
1.583	131.725	10.6	15:55: 0
1.667	131.862	10.6	16: 0: 0
1.750	131.725	10.6	16: 5: 0
1.833	131.449	10.6	16:10: 0
1.917	113.660	9.4	16:15: 0
2.000	116.763	10.0	16:20: 0
2.083	117.452	10.0	16:25: 0
2.167	117.866	10.0	16:30: 0
2.250	117.659	10.0	16:35: 0
2.333	117.659	10.0	16:40: 0
2.417	117.659	10.0	16:45: 0
2.500	117.728	10.0	16:50: 0
2.583	117.659	10.0	16:55: 0
2.667	117.659	10.0	17: 0: 0
2.750	117.728	10.0	17: 5: 0
2.833	117.797	10.0	17:10: 0
2.917	117.797	10.0	17:15: 0
3.000	117.866	10.0	17:20: 0
3.083	117.728	10.6	17:25: 0
3.167	117.728	10.6	17:30: 0

5/10/83 OPEN PCT VALVE.

FULLY OPEN CHOKE MANIFOLD.  
FLOWING THRU HEATER  
ON 2 X 20/64" CHOKES.

DIRECT FLOW THRU SEPERATOR

INCREASE TO 2 X 32/64"  
CHOKES AT HEATER.

10/22/83

SPERRY-SUN INTERNATIONAL  
MR-SIX PRESSURE GAUGE REPORT

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STATOIL  
TROLL  
31/3-1

OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30179

DST 2, RUN 4. UPSTREAM CHOKE DATA. (MULTIRATE FLOW NO.2).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
3.250	118.004	10.6	17:35: 0	5/10/83
3.333	117.797	10.0	17:40: 0	
3.417	117.866	10.0	17:45: 0	
3.500	117.728	10.0	17:50: 0	
3.583	117.866	10.0	17:55: 0	
3.667	117.659	10.0	18: 0: 0	
3.750	48.298	3.9	18: 5: 0	BYPASS HEATER.
3.833	48.505	3.9	18:10: 0	
3.917	48.505	3.9	18:15: 0	
4.000	48.505	3.9	18:20: 0	
4.083	48.505	3.9	18:25: 0	
4.167	48.436	3.9	18:30: 0	
4.250	48.505	3.9	18:35: 0	
4.333	48.436	3.9	18:40: 0	
4.417	48.436	3.9	18:45: 0	
4.500	48.505	3.9	18:50: 0	
4.583	48.436	3.9	18:55: 0	
4.667	48.505	3.9	19: 0: 0	
4.750	48.436	3.9	19: 5: 0	
4.833	48.436	3.9	19:10: 0	
4.917	48.436	3.9	19:15: 0	
5.000	48.367	3.9	19:20: 0	
5.083	48.298	3.9	19:25: 0	
5.167	48.298	3.9	19:30: 0	
5.250	48.229	3.9	19:35: 0	
5.333	48.229	3.9	19:40: 0	
5.417	48.229	3.9	19:45: 0	
5.500	48.229	3.9	19:50: 0	
5.583	48.229	3.9	19:55: 0	
5.667	48.229	3.9	20: 0: 0	
5.717	48.160	3.9	20: 3: 0	BYPASS SEPERATOR.
5.733	45.333	3.3	20: 4: 0	
5.742	44.644	3.3	20: 4:30	
5.750	44.575	3.3	20: 5: 0	
5.758	44.575	3.3	20: 5:30	
5.767	44.575	2.8	20: 6: 0	
5.775	44.575	2.8	20: 6:30	END OF FLOW PERIOD.

STATOIL  
TROLL  
31/3-1OFFSHORE NORWAY  
05 OCTOBER 1983  
NR-MS-30179

DST 2, RUN 4. UPSTREAM CHOKE DATA. (MULTIRATE TEST NO.2 BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
-0.008	44.575	2.8	20: 6:30
0.000	79.118	12.2	20: 7: 0
0.008	79.187	8.3	20: 7:30
0.017	79.118	6.7	20: 8: 0
0.025	78.980	5.6	20: 8:30
0.033	78.980	5.6	20: 9: 0
0.042	79.049	5.6	20: 9:30
0.050	79.118	5.6	20:10: 0
0.117	79.807	6.1	20:14: 0
0.383	82.289	7.2	20:30: 0
0.633	84.358	7.8	20:45: 0
0.883	86.426	8.3	21: 0: 0
1.133	88.426	8.9	21:15: 0
1.383	90.356	9.4	21:30: 0
1.633	92.356	9.4	21:45: 0
1.883	94.286	10.0	22: 0: 0
2.133	96.217	10.0	22:15: 0
2.383	98.147	10.0	22:30: 0
2.633	99.940	9.4	22:45: 0
2.883	101.526	9.4	23: 0: 0
3.133	103.180	8.9	23:15: 0
3.383	138.206	9.4	23:30: 0
3.633	138.206	9.4	23:45: 0
3.883	138.206	9.4	0: 0: 0
4.133	138.275	9.4	0:15: 0
4.383	138.206	9.4	0:30: 0
4.633	138.206	9.4	0:45: 0
4.883	138.206	9.4	1: 0: 0
5.133	138.206	9.4	1:15: 0
5.383	138.137	9.4	1:30: 0
5.633	138.137	9.4	1:45: 0
5.883	138.137	9.4	2: 0: 0
6.133	138.137	9.4	2:15: 0
6.383	138.137	8.9	2:30: 0
6.633	138.137	8.9	2:45: 0
6.883	138.137	8.9	3: 0: 0
7.133	138.068	8.9	3:15: 0
7.383	138.137	8.3	3:30: 0
7.633	138.137	8.9	3:45: 0
7.883	138.068	8.9	4: 0: 0
8.133	138.137	8.9	4:15: 0
8.383	138.137	8.9	4:30: 0
8.633	138.068	8.9	4:45: 0
8.883	138.068	9.4	5: 0: 0
9.133	138.068	8.9	5:15: 0
9.383	138.068	8.9	5:30: 0
9.633	138.068	8.9	5:45: 0
9.883	138.068	8.9	6: 0: 0

5/10/83 CLOSE PCT VALVE &  
CHOKE MANIFOLD.PCTV LEAKING -  
OPEN PCT VALVE.

6/10/83

END OF TEST.