

Denne rapport
tilhører

 **STATOIL**

99,595, 274-28
L&U DOK. SENTER

L.NR. 20085150003

KODE Well 34/10-21 nr 21

Returneres etter bruk

sperry-sui

Pressure Survey Report
for
STATOIL.

Well No. 34/10-21

06 October 1984

DST NO. 1 Run No. 4

Downhole Data.



Pressure Survey Report
for

STATOIL.

Well No. 34/10-21

06 October 1984

DST NO. 1 Run No. 4

Downhole Data.

SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

CHECK PRESSURES SHEET.

GAUGE TYPE/NO:	MK3 0191	MK3 0001
TIME MODE (Mins):	2	2
ELEMENT SIZE:	10K	10K
DEPTH (M.RKB):	3862.2	3865.4
MAX. TEMP.(Deg..C):	133.3	132.4

END OF EVENT	TIME/DATE	PRESSURE (Bars)	PRESSURE (Bars)
PRE-TEST PERIOD	00:30 08/10/84	408.820	451.687
INITIAL FLOW	00:49 08/10/84	383.396	383.588
INITIAL BUILD-UP	06:15 08/10/84	496.195	496.368
SECOND FLOW	12:21 08/10/84	384.329	384.401
SECOND BUILD-UP	13:50 08/10/84	577.768	577.782

GAUGE PERFORMANCE REPORT.

Two MK3 pressure gauges were run in a 30ft x 5 3/16" gauge carrier above the packer. Both gauges worked satisfactorily for the duration of the test, but displayed small shifts in calibration due to overpressuring of the 10,000 psi elements to c. 12,600 psi.

Both gauges have been check calibrated and the slight shifts displayed in the check calibration reports applied to the data. This assumes that the shift occurred when the gauges were overpressured at the start of the test while attempting to fire the perforating guns.

Gauge no. 0191 failed during the PDDH due to an open circuited track on the write head.

STATOIL ENGINEERS : Karl Gjerde / Per Seim

SPERRY-SUN ENGINEER : Peter Weatherill

NL SPERRY-SUN INTERNATIONAL

STATOIL
Well No: 34/10-21

Job No: NR-MS-40182
Date: 06 OCTOBER 1984

CALIBRATION DETAILS FOR: MRPG MK-3 No. 0191
TRANSDUCER No. 1996
PRESSURE RANGE = 0 - 10,000 PSIG

D.W.T. APPLIED
PRESSURES (PSIG)

GAUGE OBSERVED PRESSURE DIFFERENCE (PSIG)

Pre-Test
Calibration
12 September 1984

Post-Test
Calibration
25 October 1984

1,001.1	*	*
2,002.3	-0.4	+9.8
3,003.4	*	*
4,004.5	-1.8	+9.4
5,005.5	*	*
6,006.6	+0.3	+9.9
7,007.7	*	*
8,008.7	+0.9	+10.5
9,009.8	*	*
10,010.8	+3.2	+11.7

TEMPERATURE (Deg F)

Oven
210.0

Probe
211.5

Oven
230.0

Probe
231.2

NB. A +10.0 psi shift has been applied to the data from this gauge.

NL SPERRY-SUN INTERNATIONAL

STATOIL
Well No: 34/10-21

Job No: NR-MS-40182
Date: 06 OCTOBER 1984

CALIBRATION DETAILS FOR: MRPG MK-3 No. 0001
TRANSDUCER No. 1757
PRESSURE RANGE = 0 - 10,000 PSIG

D.W.T. APPLIED
PRESSURES (PSIG)

GAUGE OBSERVED PRESSURE DIFFERENCE (PSIG)

Pre-Test
Calibration
10 September 1984

Post-Test
Calibration
24 October 1984

1,001.1	*	*
2,002.3	+0.3	+5.7
3,003.4	*	*
4,004.5	+0.2	+5.7
5,005.5	*	*
6,006.6	+0.9	+6.1
7,007.7	*	*
8,008.7	+0.6	+6.3
9,009.8	*	*
10,010.8	+1.0	+6.2

TEMPERATURE (Deg F)

Oven
230.0

Probe
229.6

Oven
230.0

Probe
230.1

NB. A +6.0 psi shift has been applied to the data from this gauge for both tests.

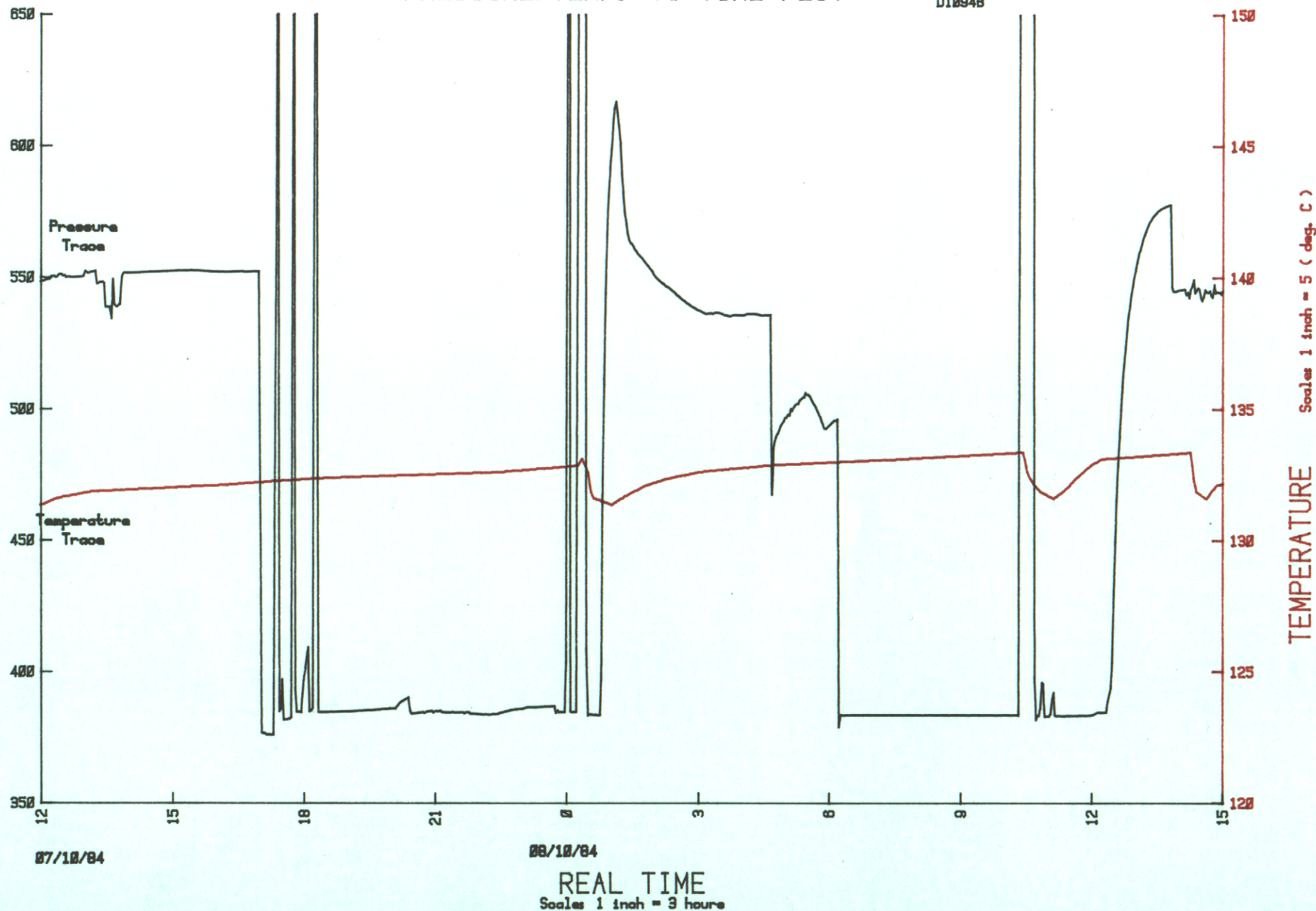
GAUGE NO. 0191.

(LOCATION: TOP CARRIER - 3862.2 M.RKB)

STATOIL
34/10-21
GULLFAKS SOUTH

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

06 OCTOBER 1984
DST NO. 1.
GAUGE NO. 0191 (TOP CARRIER).
D1094B



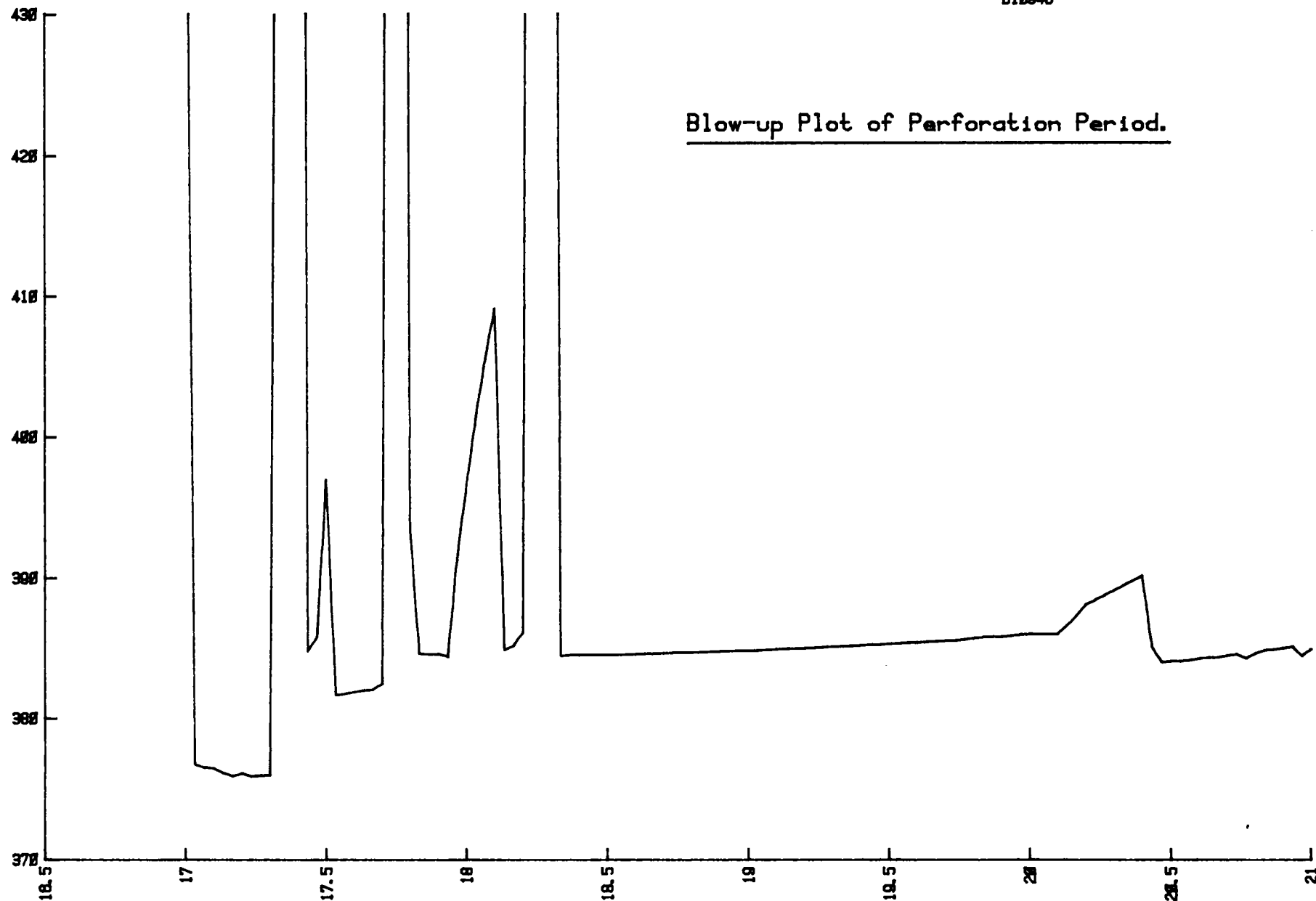
STATOIL
34/18-21
GULLFAKS SOUTH

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

08 OCTOBER 1984
DST NO. 1.
GAUGE NO. 0191 (TOP CARRIER).
D18848

Blow-up Plot of Perforation Period.

PRESSURE Scale 1 inch = 10 BARS



07/10/84

REAL TIME
Scale 1 inch = .5 hour

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 1

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
0.000	551.030	131.6	12:28
0.033	551.123	131.6	12:30
0.067	550.495	131.6	12:32
0.100	550.650	131.6	12:34
0.133	549.975	131.7	12:36
0.167	550.115	131.7	12:38
0.200	550.223	131.7	12:40
0.233	549.951	131.7	12:42
0.267	549.920	131.7	12:44
0.300	549.927	131.7	12:46
0.333	549.973	131.7	12:48
0.367	550.035	131.7	12:50
0.400	550.088	131.7	12:52
0.433	550.150	131.7	12:54
0.467	550.203	131.8	12:56
0.500	550.265	131.8	12:58
0.533	550.318	131.8	13: 0
0.567	552.205	131.8	13: 2
0.600	551.880	131.8	13: 4
0.633	551.531	131.8	13: 6
0.667	551.794	131.8	13: 8
0.700	551.924	131.8	13:10
0.733	552.064	131.8	13:12
0.767	552.203	131.8	13:14
0.800	552.342	131.8	13:16
0.833	547.654	131.8	13:18
0.867	547.716	131.8	13:20
0.900	548.032	131.9	13:22
0.933	548.110	131.9	13:24
0.967	548.202	131.9	13:26
1.000	547.692	131.9	13:28
1.033	538.674	131.9	13:30
1.067	538.720	131.9	13:32
1.100	538.736	131.9	13:34
1.133	538.751	131.9	13:36
1.167	534.297	131.9	13:38
1.200	549.338	131.9	13:40
1.233	539.840	131.9	13:42
1.267	539.021	131.9	13:44
1.300	538.742	131.9	13:46
1.333	539.562	131.9	13:48
1.367	539.686	131.9	13:50
1.400	550.189	131.9	13:52
1.433	551.241	131.9	13:54
1.467	551.752	131.9	13:56
1.500	551.696	131.9	13:58
1.533	551.650	131.9	14: 0
1.567	551.666	131.9	14: 2
1.600	551.681	131.9	14: 4
1.633	551.712	131.9	14: 6

7/10/84

SET PACKER

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 2

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
1.667	551.727	131.9	14: 8
1.700	551.743	131.9	14:10
1.733	551.789	131.9	14:12
1.767	551.805	131.9	14:14
1.800	551.827	131.9	14:16
1.833	551.842	131.9	14:18
1.867	551.873	131.9	14:20
1.900	551.889	131.9	14:22
1.933	551.935	131.9	14:24
1.967	551.951	131.9	14:26
2.033	551.981	131.9	14:30
2.067	552.028	131.9	14:32
2.100	552.043	131.9	14:34
2.133	552.065	132.0	14:36
2.167	552.096	132.0	14:38
2.200	552.127	132.0	14:40
2.233	552.143	132.0	14:42
2.267	552.174	132.0	14:44
2.300	552.189	132.0	14:46
2.333	552.220	132.0	14:48
2.367	552.236	132.0	14:50
2.400	552.258	132.0	14:52
2.433	552.273	132.0	14:54
2.467	552.289	132.0	14:56
2.500	552.304	132.0	14:58
2.533	552.319	132.0	15: 0
2.567	552.335	132.0	15: 2
2.600	552.366	132.0	15: 4
2.633	552.366	132.0	15: 6
2.667	552.397	132.0	15: 8
2.700	552.419	132.0	15:10
2.733	552.419	132.0	15:12
2.767	552.434	132.0	15:14
2.800	552.450	132.0	15:16
2.833	552.450	132.0	15:18
2.867	552.465	132.0	15:20
2.900	552.465	132.0	15:22
2.933	552.450	132.0	15:24
2.967	552.465	132.0	15:26
3.000	552.688	132.0	15:28
3.033	552.441	132.0	15:30
3.067	552.441	132.0	15:32
3.100	552.425	132.0	15:34
3.133	552.425	132.0	15:36
3.167	552.410	132.0	15:38
3.200	552.363	132.0	15:40
3.233	552.348	132.0	15:42
3.267	552.317	132.0	15:44
3.300	552.293	132.1	15:46
3.367	552.246	132.1	15:50

7/10/84

RIH WITH GR-CCL LOG.

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 3

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
---------------------	---------------------------	----------------	------

3.400	552.200	132.1	15:52	7/10/84
3.433	552.153	132.1	15:54	
3.467	552.138	132.1	15:56	
3.500	552.061	132.1	15:58	
3.533	552.076	132.1	16: 0	
3.567	552.076	132.1	16: 2	
3.600	551.999	132.1	16: 4	
3.633	552.005	132.1	16: 6	
3.667	551.990	132.1	16: 8	
3.700	551.990	132.1	16:10	
3.733	551.990	132.1	16:12	
3.767	551.928	132.1	16:14	
3.800	551.974	132.1	16:16	
3.833	552.005	132.1	16:18	
3.867	552.027	132.1	16:20	
3.900	552.043	132.1	16:22	
3.933	552.089	132.1	16:24	
3.967	552.136	132.1	16:26	
4.000	552.151	132.1	16:28	
4.033	552.197	132.1	16:30	
4.067	552.189	132.1	16:32	
4.100	552.204	132.1	16:34	
4.133	552.235	132.1	16:36	
4.167	552.266	132.1	16:38	
4.200	552.018	132.1	16:40	
4.233	552.009	132.2	16:42	
4.267	552.056	132.2	16:44	
4.300	552.102	132.2	16:46	
4.333	552.118	132.2	16:48	
4.367	552.149	132.2	16:50	
4.400	552.211	132.2	16:52	
4.433	552.202	132.2	16:54	
4.467	552.186	132.2	16:56	
4.500	552.202	132.2	16:58	
4.533	552.202	132.2	17: 0	
4.600	376.735	132.2	17: 4	
4.633	376.504	132.2	17: 6	
4.667	376.451	132.2	17: 8	
4.700	376.127	132.2	17:10	
4.733	375.911	132.2	17:12	
4.767	376.096	132.2	17:14	
4.800	375.896	132.2	17:16	
4.833	375.966	132.2	17:18	
4.867	375.982	132.2	17:20	
4.933	574.309	132.2	17:24	
4.967	796.288	132.2	17:26	
5.000	384.736	132.2	17:28	
5.033	385.784	132.2	17:30	
5.067	396.985	132.3	17:32	
5.100	381.646	132.3	17:34	

OPEN LPR-N VALVE.

PRESSURE UP TUBING TO
ACTIVATE FIRING HEAD.

(GUNS FIRED ?).

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 4

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
5.200	382.001	132.3	17:40	7/10/84
5.233	382.047	132.3	17:42	
5.267	382.463	132.3	17:44	
5.300	517.158	132.3	17:46	PRESSURE UP TUBING TO
5.333	722.159	132.3	17:48	ACTIVATE FIRING HEAD.
5.367	393.555	132.3	17:50	
5.400	384.583	132.3	17:52	
5.433	384.568	132.3	17:54	
5.467	384.583	132.3	17:56	
5.500	384.391	132.3	17:58	CLOSE LPR-N VALVE
5.533	391.266	132.3	18: 0	
5.600	401.349	132.3	18: 4	
5.633	405.466	132.3	18: 6	
5.667	409.121	132.3	18: 8	OPEN LPR-N VALVE
5.700	384.838	132.3	18:10	
5.733	385.201	132.3	18:12	
5.767	386.126	132.3	18:14	PRESSURE UP TUBING TO
5.800	537.084	132.3	18:16	ACTIVATE FIRING HEAD.
5.833	760.309	132.3	18:18	
5.867	603.902	132.3	18:20	BLEED OFF PRESSURE
5.900	384.446	132.3	18:22	
5.933	384.523	132.3	18:24	
5.967	384.508	132.3	18:26	
6.000	384.523	132.3	18:28	
6.033	384.516	132.4	18:30	
6.067	384.532	132.4	18:32	
6.100	384.532	132.4	18:34	
6.133	384.562	132.4	18:36	
6.167	384.578	132.4	18:38	
6.200	384.593	132.4	18:40	
6.233	384.624	132.4	18:42	
6.267	384.640	132.4	18:44	
6.300	384.670	132.4	18:46	
6.333	384.686	132.4	18:48	
6.367	384.701	132.4	18:50	
6.400	384.717	132.4	18:52	
6.433	384.740	132.4	18:54	
6.467	384.771	132.4	18:56	
6.533	384.818	132.4	19: 0	
6.567	384.818	132.4	19: 2	
6.600	384.833	132.4	19: 4	
6.633	384.895	132.4	19: 6	
6.667	384.925	132.4	19: 8	
6.700	384.956	132.4	19:10	
6.733	384.972	132.4	19:12	
6.767	385.002	132.4	19:14	
6.800	385.033	132.4	19:16	
6.833	385.064	132.4	19:18	
6.867	385.110	132.4	19:20	
6.900	385.134	132.4	19:22	

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 5

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
6.933	385.165	132.4	19:24	7/10/84
6.967	385.196	132.4	19:26	
7.000	385.242	132.4	19:28	
7.033	385.258	132.4	19:30	
7.067	385.319	132.4	19:32	
7.100	385.350	132.4	19:34	
7.133	385.381	132.4	19:36	
7.167	385.412	132.4	19:38	
7.200	385.442	132.4	19:40	
7.233	385.489	132.4	19:42	
7.267	385.535	132.4	19:44	
7.300	385.543	132.4	19:46	
7.333	385.620	132.4	19:48	
7.367	385.713	132.4	19:50	
7.400	385.790	132.4	19:52	
7.433	385.821	132.4	19:54	
7.467	385.821	132.4	19:56	
7.500	385.882	132.4	19:58	
7.533	385.975	132.4	20: 0	
7.567	386.006	132.4	20: 2	
7.600	386.006	132.4	20: 4	
7.633	386.006	132.4	20: 6	
7.667	386.006	132.4	20: 8	
7.733	387.278	132.5	20:12	
7.767	388.110	132.5	20:14	
7.800	388.434	132.5	20:16	
7.833	388.773	132.5	20:18	
7.867	389.112	132.5	20:20	
7.900	389.482	132.5	20:22	
7.967	390.160	132.5	20:26	
8.000	385.074	132.5	20:28	
8.033	383.995	132.5	20:30	
8.067	384.072	132.5	20:32	
8.100	384.072	132.5	20:34	
8.133	384.149	132.5	20:36	
8.167	384.257	132.5	20:38	
8.200	384.343	132.5	20:40	
8.233	384.343	132.5	20:42	
8.267	384.466	132.5	20:44	
8.300	384.558	132.5	20:46	
8.333	384.266	132.5	20:48	
8.367	384.620	132.5	20:50	
8.400	384.836	132.5	20:52	
8.433	384.898	132.5	20:54	
8.467	384.990	132.5	20:56	
8.500	385.098	132.5	20:58	
8.533	384.420	132.5	21: 0	
8.567	384.898	132.5	21: 2	
8.600	385.014	132.5	21: 4	
8.633	384.906	132.5	21: 6	

RIH WITH DETONATING BAR.

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 6

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
8.667	385.029	132.5	21: 8	7/10/84
8.700	385.075	132.5	21:10	
8.733	384.536	132.5	21:12	
8.767	384.474	132.5	21:14	
8.800	384.444	132.5	21:16	
8.833	384.413	132.5	21:18	
8.867	384.413	132.5	21:20	
8.900	384.413	132.5	21:22	
8.933	384.413	132.5	21:24	
8.967	384.582	132.5	21:26	
9.000	384.428	132.5	21:28	
9.033	384.437	132.5	21:30	
9.067	384.406	132.5	21:32	
9.100	384.406	132.5	21:34	
9.133	384.483	132.5	21:36	
9.167	384.498	132.5	21:38	
9.200	384.498	132.5	21:40	
9.233	384.098	132.5	21:42	
9.267	384.498	132.5	21:44	
9.300	384.529	132.5	21:46	
9.333	384.514	132.5	21:48	
9.367	383.990	132.5	21:50	
9.400	384.051	132.5	21:52	
9.433	384.014	132.6	21:54	
9.500	383.952	132.6	21:58	
9.533	383.875	132.6	22: 0	
9.567	383.798	132.6	22: 2	
9.600	383.752	132.6	22: 4	
9.633	383.659	132.6	22: 6	
9.667	383.613	132.6	22: 8	
9.700	383.767	132.6	22:10	
9.733	383.659	132.6	22:12	
9.767	383.644	132.6	22:14	
9.800	383.628	132.6	22:16	
9.833	383.644	132.6	22:18	
9.867	383.791	132.6	22:20	
9.900	383.929	132.6	22:22	
9.933	383.745	132.6	22:24	
9.967	383.914	132.6	22:26	
10.000	384.053	132.6	22:28	
10.033	384.191	132.6	22:30	
10.067	384.361	132.6	22:32	
10.100	384.500	132.6	22:34	
10.133	384.654	132.6	22:36	
10.167	384.801	132.6	22:38	
10.200	384.924	132.6	22:40	
10.233	385.063	132.6	22:42	
10.267	385.186	132.6	22:44	
10.300	385.356	132.6	22:46	
10.333	385.503	132.6	22:48	

ATTEMPT TO FIRE GUNS
WITH WIRELINE

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 7

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
10.367	385.565	132.6	22:50	7/10/84
10.400	385.657	132.6	22:52	
10.433	385.672	132.6	22:54	
10.533	385.857	132.6	23: 0	
10.567	385.912	132.7	23: 2	
10.600	386.112	132.7	23: 4	
10.633	386.282	132.7	23: 6	
10.667	386.436	132.7	23: 8	
10.700	386.421	132.7	23:10	
10.733	386.429	132.7	23:12	
10.767	386.444	132.7	23:14	
10.800	386.429	132.7	23:16	
10.833	386.491	132.7	23:18	
10.867	386.506	132.7	23:20	
10.900	386.514	132.7	23:22	
10.933	386.545	132.7	23:24	
10.967	386.607	132.7	23:26	
11.000	386.607	132.7	23:28	
11.033	386.638	132.7	23:30	
11.067	386.684	132.7	23:32	
11.100	386.677	132.7	23:34	
11.133	386.692	132.7	23:36	
11.167	386.739	132.7	23:38	
11.200	386.739	132.7	23:40	
11.233	386.800	132.7	23:42	
11.267	386.809	132.8	23:44	
11.300	386.840	132.8	23:46	
11.333	384.281	132.8	23:48	
11.367	385.160	132.8	23:50	
11.400	384.559	132.8	23:52	
11.433	384.675	132.8	23:54	
11.467	384.552	132.8	23:56	
11.500	384.583	132.8	23:58	
11.533	384.583	132.8	0: 0	8/10/84
11.567	403.248	132.8	0: 2	
11.600	724.118	132.8	0: 4	PRESSURE UP TUBING TO ACTIVATE FIRING HEAD.
11.633	764.054	132.8	0: 6	
11.667	384.761	132.8	0: 8	
11.700	384.545	132.8	0:10	
11.733	384.606	132.8	0:12	
11.767	384.569	132.8	0:14	
11.800	384.615	132.8	0:16	
11.833	598.029	132.8	0:18	PRESSURE UP TUBING TO ACTIVATE FIRING HEAD.
11.867	807.101	132.9	0:20	
11.900	811.468	133.0	0:22	
11.933	822.892	133.1	0:24	
11.967	813.327	133.0	0:26	BLEED OFF PRESSURE
12.000	761.697	132.8	0:28	
12.033	408.820	132.7	0:30	WELL OPENED TO FLOW.

10/25/84

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 1

STATOIL
GULLFAKS SOUTH
34/10-21

OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (INITIAL FLOW PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
0.000	408.820	132.7	0:30
0.033	383.159	132.6	0:32
0.067	383.761	132.1	0:34
0.100	383.614	131.8	0:36
0.133	383.541	131.7	0:38
0.167	383.530	131.6	0:40
0.200	383.490	131.6	0:42
0.233	383.451	131.5	0:44
0.267	383.420	131.5	0:46
0.300	383.396	131.5	0:48

8/10/84 WELL OPENED ON 48/64"
FIXED CHOKE.

END OF FLOW PERIOD.

10/25/84

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 1

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (INITIAL BUILD-UP PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
---------------------	---------------------------	----------------	------

-0.017	383.396	131.5	0:48
0.017	396.542	131.5	0:50
0.050	463.751	131.5	0:52
0.083	509.609	131.4	0:54
0.117	544.123	131.4	0:56
0.150	566.129	131.4	0:58
0.183	581.063	131.4	1: 0
0.217	591.959	131.4	1: 2
0.250	598.489	131.3	1: 4
0.283	606.845	131.4	1: 6
0.317	614.433	131.4	1: 8
0.350	616.888	131.4	1:10
0.383	612.731	131.5	1:12
0.417	607.795	131.5	1:14
0.450	600.867	131.6	1:16
0.483	589.830	131.6	1:18
0.517	582.559	131.6	1:20
0.550	575.403	131.7	1:22
0.583	570.518	131.7	1:24
0.617	566.949	131.7	1:26
0.650	564.479	131.7	1:28
0.683	563.207	131.8	1:30
0.717	562.703	131.8	1:32
0.750	561.796	131.8	1:34
0.783	560.750	131.9	1:36
0.817	559.859	131.9	1:38
0.850	559.046	131.9	1:40
0.883	558.495	131.9	1:42
0.917	557.843	132.0	1:44
0.950	557.246	132.0	1:46
0.983	556.479	132.0	1:48
1.017	555.805	132.1	1:50
1.050	555.053	132.1	1:52
1.083	554.379	132.1	1:54
1.117	553.605	132.1	1:56
1.150	552.900	132.1	1:58
1.183	552.257	132.2	2: 0
1.217	551.057	132.2	2: 2
1.250	550.299	132.2	2: 4
1.283	549.687	132.2	2: 6
1.317	549.136	132.2	2: 8
1.350	548.626	132.2	2:10
1.383	548.122	132.3	2:12
1.417	547.758	132.3	2:14
1.450	547.439	132.3	2:16
1.483	546.960	132.3	2:18
1.517	546.580	132.3	2:20
1.550	546.178	132.3	2:22
1.583	545.767	132.4	2:24
1.617	545.334	132.4	2:26

8/10/84 WELL SHUT-IN AT LPR-N
VALVE & CHOKE MANIFOLD.

10/25/84

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 2

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (INITIAL BUILD-UP PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.650	544.861	132.4	2:28	8/10/84
1.683	544.397	132.4	2:30	
1.717	543.816	132.4	2:32	
1.750	543.275	132.4	2:34	
1.783	542.817	132.4	2:36	
1.817	542.291	132.4	2:38	
1.850	541.803	132.5	2:40	
1.883	541.401	132.5	2:42	
1.917	540.999	132.5	2:44	
1.950	540.511	132.5	2:46	
1.983	540.109	132.5	2:48	
2.017	539.714	132.5	2:50	
2.050	539.342	132.5	2:52	
2.083	538.978	132.5	2:54	
2.117	538.684	132.5	2:56	
2.150	538.351	132.6	2:58	
2.183	537.964	132.6	3: 0	
2.217	537.693	132.6	3: 2	
2.250	537.476	132.6	3: 4	
2.283	537.244	132.6	3: 6	
2.317	536.950	132.6	3: 8	
2.350	536.663	132.6	3:10	
2.383	536.400	132.6	3:12	
2.417	536.354	132.6	3:14	
2.450	536.431	132.6	3:16	
2.483	536.484	132.6	3:18	
2.517	536.407	132.6	3:20	
2.550	536.345	132.6	3:22	
2.583	536.515	132.6	3:24	
2.617	536.701	132.6	3:26	
2.650	536.708	132.7	3:28	
2.683	536.630	132.7	3:30	
2.717	536.568	132.7	3:32	
2.750	536.337	132.7	3:34	
2.783	536.120	132.7	3:36	
2.817	535.895	132.7	3:38	
2.850	535.709	132.7	3:40	
2.883	535.648	132.7	3:42	
2.917	535.493	132.7	3:44	
2.950	535.453	132.7	3:46	
2.983	535.562	132.7	3:48	
3.017	535.778	132.7	3:50	
3.050	535.948	132.7	3:52	
3.083	535.871	132.7	3:54	
3.117	535.847	132.7	3:56	
3.150	535.847	132.7	3:58	
3.183	535.754	132.7	4: 0	
3.217	535.738	132.7	4: 2	
3.250	535.760	132.8	4: 4	
3.283	535.946	132.8	4: 6	

RIH WITH GEOSERVICES
PRESSURE GAUGES.

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 3

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (INITIAL BUILD-UP PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
3.317	536.116	132.8	4: 8
3.350	536.224	132.8	4:10
3.383	536.240	132.8	4:12
3.417	536.246	132.8	4:14
3.450	536.293	132.8	4:16
3.483	536.293	132.8	4:18
3.517	536.215	132.8	4:20
3.550	536.154	132.8	4:22
3.583	536.099	132.8	4:24
3.617	535.990	132.8	4:26
3.650	535.882	132.8	4:28
3.683	535.712	132.8	4:30
3.717	535.781	132.8	4:32
3.750	535.858	132.8	4:34
3.783	535.796	132.8	4:36
3.817	535.750	132.8	4:38
3.850	535.811	132.8	4:40
3.883	535.951	132.8	4:42
3.917	467.361	132.8	4:44
3.950	485.263	132.9	4:46
3.983	487.827	132.9	4:48
4.017	489.495	132.9	4:50
4.050	490.869	132.9	4:52
4.083	492.074	132.9	4:54
4.117	493.541	132.9	4:56
4.150	494.468	132.9	4:58
4.183	495.410	132.9	5: 0
4.217	496.769	132.9	5: 2
4.250	496.823	132.9	5: 4
4.283	497.904	132.9	5: 6
4.317	497.641	132.9	5: 8
4.350	500.144	132.9	5:10
4.383	499.356	132.9	5:12
4.417	500.870	132.9	5:14
4.450	501.488	132.9	5:16
4.483	502.013	132.9	5:18
4.517	502.059	132.9	5:20
4.550	503.341	132.9	5:22
4.583	503.905	132.9	5:24
4.617	504.291	132.9	5:26
4.650	504.584	132.9	5:28
4.683	506.098	132.9	5:30
4.717	505.542	132.9	5:32
4.750	505.542	132.9	5:34
4.783	504.832	132.9	5:36
4.817	503.843	132.9	5:38
4.850	502.839	132.9	5:40
4.883	501.734	132.9	5:42
4.917	500.884	132.9	5:44
4.950	499.664	132.9	5:46

8/10/84

OPEN LPR-N VALVE.

SET GAUGES IN
"F" NIPPLE

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 4

STATOIL
GULLFAKS SOUTH
34/10-21

OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (INITIAL BUILD-UP PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
4.983	498.413	132.9	5:48	8/10/84
5.017	497.053	132.9	5:50	
5.050	495.679	132.9	5:52	
5.083	494.242	132.9	5:54	
5.117	492.790	132.9	5:56	
5.150	492.466	132.9	5:58	
5.183	493.060	133.0	6: 0	
5.217	493.570	133.0	6: 2	
5.250	494.188	133.0	6: 4	
5.283	494.744	133.0	6: 6	
5.317	495.253	133.0	6: 8	
5.350	495.794	133.0	6:10	
5.383	495.794	133.0	6:12	
5.417	496.195	133.0	6:14	

END OF BUILD-UP PERIOD.

10/25/84

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 1

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (SECOND FLOW/INJECTION PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
---------------------	---------------------------	----------------	------

-0.017	496.195	133.0	6:14
0.017	378.848	133.0	6:16
0.050	383.433	133.0	6:18
0.083	383.340	133.0	6:20
0.117	383.294	133.0	6:22
0.150	383.309	133.0	6:24
0.183	383.402	133.0	6:26
0.217	383.417	133.0	6:28
0.283	383.464	133.0	6:32
0.317	383.464	133.0	6:34
0.350	383.479	133.0	6:36
0.383	383.472	133.0	6:38
0.417	383.472	133.0	6:40
0.450	383.503	133.0	6:42
0.483	383.472	133.0	6:44
0.517	383.472	133.0	6:46
0.550	383.487	133.0	6:48
0.583	383.487	133.0	6:50
0.617	383.472	133.0	6:52
0.650	383.487	133.0	6:54
0.683	383.503	133.0	6:56
0.717	383.496	133.0	6:58
0.750	383.480	133.0	7: 0
0.783	383.496	133.0	7: 2
0.817	383.465	133.0	7: 4
0.850	383.480	133.0	7: 6
0.883	383.450	133.0	7: 8
0.917	383.450	133.0	7:10
0.950	383.465	133.0	7:12
0.983	383.480	133.0	7:14
1.017	383.458	133.1	7:16
1.050	383.473	133.1	7:18
1.083	383.489	133.1	7:20
1.117	383.473	133.1	7:22
1.150	383.489	133.1	7:24
1.183	383.473	133.1	7:26
1.217	383.458	133.1	7:28
1.250	383.489	133.1	7:30
1.283	383.473	133.1	7:32
1.317	383.451	133.1	7:34
1.350	383.466	133.1	7:36
1.383	383.497	133.1	7:38
1.417	383.482	133.1	7:40
1.450	383.466	133.1	7:42
1.483	383.482	133.1	7:44
1.517	383.451	133.1	7:46
1.550	383.482	133.1	7:48
1.583	383.466	133.1	7:50
1.617	383.475	133.1	7:52
1.650	383.459	133.1	7:54

8/10/84 WELL OPENED ON 48/64"
FIXED CHOKE.CLOSE CHOKE & OPEN
BUBBLE HOSE.

10/25/84

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 2

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (SECOND FLOW/INJECTION PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.683	383.475	133.1	7:56	8/10/84
1.717	383.475	133.1	7:58	
1.750	383.475	133.1	8: 0	
1.783	383.490	133.1	8: 2	
1.817	383.475	133.1	8: 4	
1.883	383.444	133.1	8: 8	
1.917	383.483	133.1	8:10	
1.950	383.483	133.1	8:12	
1.983	383.483	133.1	8:14	
2.017	383.468	133.1	8:16	
2.050	383.468	133.1	8:18	
2.083	383.453	133.1	8:20	
2.117	383.468	133.1	8:22	
2.150	383.483	133.1	8:24	
2.183	383.461	133.2	8:26	
2.217	383.446	133.2	8:28	
2.250	383.476	133.2	8:30	
2.283	383.461	133.2	8:32	
2.317	383.446	133.2	8:34	
2.350	383.476	133.2	8:36	
2.383	383.476	133.2	8:38	
2.417	383.461	133.2	8:40	
2.450	383.454	133.2	8:42	
2.483	383.469	133.2	8:44	
2.517	383.423	133.2	8:46	
2.583	383.439	133.2	8:50	
2.617	383.454	133.2	8:52	
2.650	383.439	133.2	8:54	
2.683	383.439	133.2	8:56	
2.717	383.454	133.2	8:58	
2.750	383.447	133.2	9: 0	
2.783	383.462	133.2	9: 2	
2.817	383.416	133.2	9: 4	
2.850	383.447	133.2	9: 6	
2.883	383.447	133.2	9: 8	
2.917	383.432	133.2	9:10	
2.950	383.416	133.2	9:12	
2.983	383.416	133.2	9:14	
3.017	383.425	133.2	9:16	
3.050	383.425	133.2	9:18	
3.083	383.440	133.2	9:20	
3.117	383.455	133.2	9:22	
3.150	383.455	133.2	9:24	
3.183	383.440	133.2	9:26	
3.217	383.455	133.2	9:28	
3.250	383.455	133.2	9:30	
3.283	383.418	133.3	9:32	
3.317	383.448	133.3	9:34	
3.350	383.418	133.3	9:36	
3.383	383.448	133.3	9:38	

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 3

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (SECOND FLOW/INJECTION PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
3.417	383.433	133.3	9:40	8/10/84
3.450	383.433	133.3	9:42	
3.483	383.433	133.3	9:44	
3.517	383.418	133.3	9:46	
3.550	383.426	133.3	9:48	
3.583	383.426	133.3	9:50	
3.617	383.411	133.3	9:52	
3.650	383.426	133.3	9:54	
3.683	383.411	133.3	9:56	
3.717	383.411	133.3	9:58	
3.750	383.441	133.3	10: 0	
3.783	383.457	133.3	10: 2	
3.817	383.435	133.3	10: 4	
3.850	383.435	133.3	10: 6	
3.883	383.465	133.3	10: 8	
3.917	383.419	133.3	10:10	
3.950	383.404	133.3	10:12	
3.983	383.419	133.3	10:14	CLOSE BUBBLE HOSE.
4.017	383.450	133.3	10:16	
4.050	383.465	133.3	10:18	
4.083	383.474	133.3	10:20	
4.117	383.320	133.3	10:22	
4.150	808.048	133.3	10:24	
4.183	799.251	133.3	10:26	
4.217	768.442	133.3	10:28	INJECT 1.59 M3 OF WATER INTO FORMATION
4.250	752.420	133.1	10:30	
4.283	657.988	132.8	10:32	
4.317	712.390	132.6	10:34	
4.350	724.131	132.5	10:36	
4.383	731.266	132.3	10:38	STOP INJECTION.
4.417	734.730	132.3	10:40	
4.450	736.731	132.2	10:42	CLOSE CHOKE & OPEN HOSE.
4.483	397.713	132.1	10:44	OPEN CHOKE & CLOSE HOSE.
4.517	381.632	132.0	10:46	CLOSE CHOKE & OPEN HOSE
4.550	383.271	132.0	10:48	
4.583	383.208	131.9	10:50	
4.617	385.958	131.8	10:52	
4.650	395.925	131.8	10:54	
4.683	395.331	131.8	10:56	CLOSE BUBBLE HOSE & OPEN CHOKE.
4.717	382.849	131.8	10:58	
4.750	383.041	131.7	11: 0	
4.783	383.086	131.7	11: 2	
4.817	383.123	131.7	11: 4	CLOSE CHOKE & OPEN BUBBLE HOSE.
4.850	383.886	131.6	11: 6	
4.883	389.490	131.6	11: 8	
4.917	392.041	131.6	11:10	CLOSE BUBBLE HOSE & OPEN CHOKE.
4.950	383.362	131.6	11:12	
4.983	383.139	131.7	11:14	
5.017	383.187	131.7	11:16	
5.050	383.188	131.8	11:18	

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 4

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (SECOND FLOW/INJECTION PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
---------------------	---------------------------	----------------	------

5.083	383.150	131.8	11:20
5.117	383.183	131.8	11:22
5.150	383.169	131.9	11:24
5.183	383.186	131.9	11:26
5.217	383.187	132.0	11:28
5.250	383.220	132.0	11:30
5.283	383.221	132.1	11:32
5.317	383.216	132.2	11:34
5.350	383.232	132.2	11:36
5.383	383.273	132.3	11:38
5.417	383.290	132.3	11:40
5.450	383.245	132.4	11:42
5.483	383.293	132.4	11:44
5.517	383.325	132.5	11:46
5.550	383.327	132.5	11:48
5.583	383.344	132.6	11:50
5.617	383.315	132.6	11:52
5.650	383.316	132.7	11:54
5.683	383.317	132.7	11:56
5.717	383.350	132.8	11:58
5.750	383.336	132.8	12: 0
5.783	383.391	132.9	12: 2
5.817	383.639	132.9	12: 4
5.850	383.955	132.9	12: 6
5.883	384.256	133.0	12: 8
5.917	384.450	133.0	12:10
5.950	384.513	133.0	12:12
5.983	384.460	133.1	12:14
6.017	384.453	133.1	12:16
6.050	384.391	133.1	12:18
6.083	384.329	133.1	12:20

8/10/84

CLOSE CHOKE & OPEN BUBBLE
HOSE.

END OF FLOW PERIOD.

10/25/84

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 1

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0191, SENSING DEPTH 3862.2 M.RKB. (SECOND BUILD-UP PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
---------------------	---------------------------	----------------	------

-0.017	384.329	133.1	12:20
0.017	384.507	133.1	12:22
0.050	388.837	133.1	12:24
0.117	394.200	133.1	12:28
0.150	403.401	133.1	12:30
0.183	429.458	133.1	12:32
0.217	449.697	133.1	12:34
0.250	464.997	133.1	12:36
0.283	478.349	133.1	12:38
0.317	489.713	133.1	12:40
0.350	499.782	133.1	12:42
0.383	508.463	133.1	12:44
0.417	516.466	133.1	12:46
0.450	523.473	133.2	12:48
0.483	529.562	133.2	12:50
0.517	535.002	133.2	12:52
0.550	539.361	133.2	12:54
0.583	543.782	133.2	12:56
0.617	546.720	133.2	12:58
0.683	553.004	133.2	13: 2
0.717	555.926	133.2	13: 4
0.750	558.462	133.2	13: 6
0.783	560.612	133.2	13: 8
0.817	562.668	133.2	13:10
0.850	564.617	133.2	13:12
0.883	566.278	133.2	13:14
0.917	567.794	133.2	13:16
0.950	569.217	133.2	13:18
0.983	570.501	133.2	13:20
1.017	571.553	133.2	13:22
1.050	572.496	133.2	13:24
1.083	573.276	133.2	13:26
1.117	573.988	133.2	13:28
1.150	574.653	133.2	13:30
1.183	575.256	133.2	13:32
1.217	575.736	133.2	13:34
1.250	576.153	133.2	13:36
1.283	576.469	133.3	13:38
1.317	576.747	133.3	13:40
1.350	577.041	133.3	13:42
1.383	577.320	133.3	13:44
1.417	577.536	133.3	13:46
1.450	577.768	133.3	13:48
1.483	577.883	133.3	13:50

8/10/84 WELL SHUT-IN AT
FAILSAFE WING VALVE.

END OF TEST.

GAUGE NO. 0001.

(LOCATION: BOTTOM CARRIER - 3865.4 M.RKB)

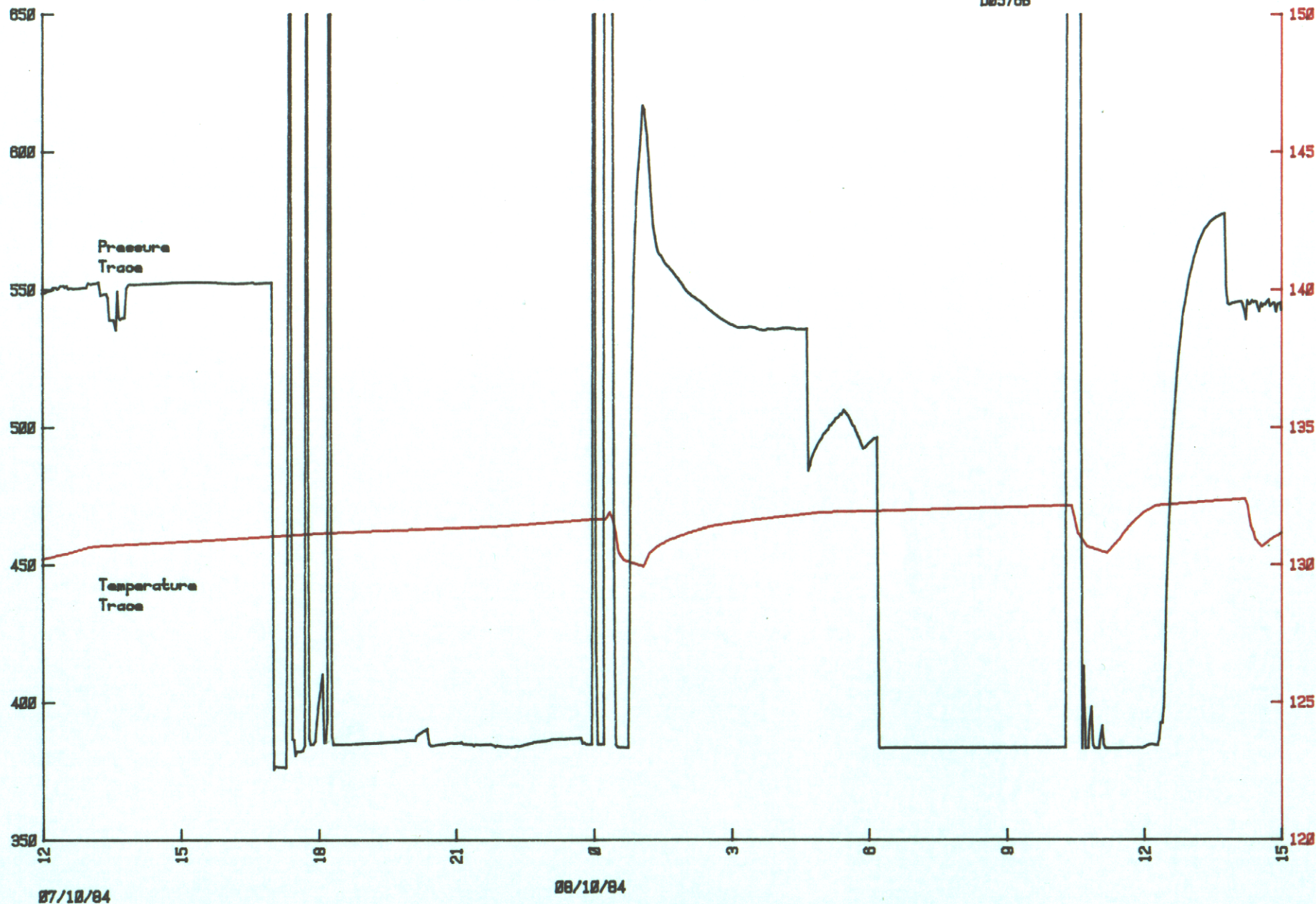
STATOIL
34/10-21
GULLFAKS SOUTH

NL Sperry-Sun, Inc.

PRESSURE/TEMP. Vs TIME PLOT

08 OCTOBER 1984
DST NO. 1.
GAUGE NO. 0001 (BOTTOM CARRIER).
D0576B

PRESSURE
Scale 1 inch = 50 BARS



TEMPERATURE
Scale 1 inch = 5 (deg. C)

REAL TIME
Scale 1 inch = 3 hours

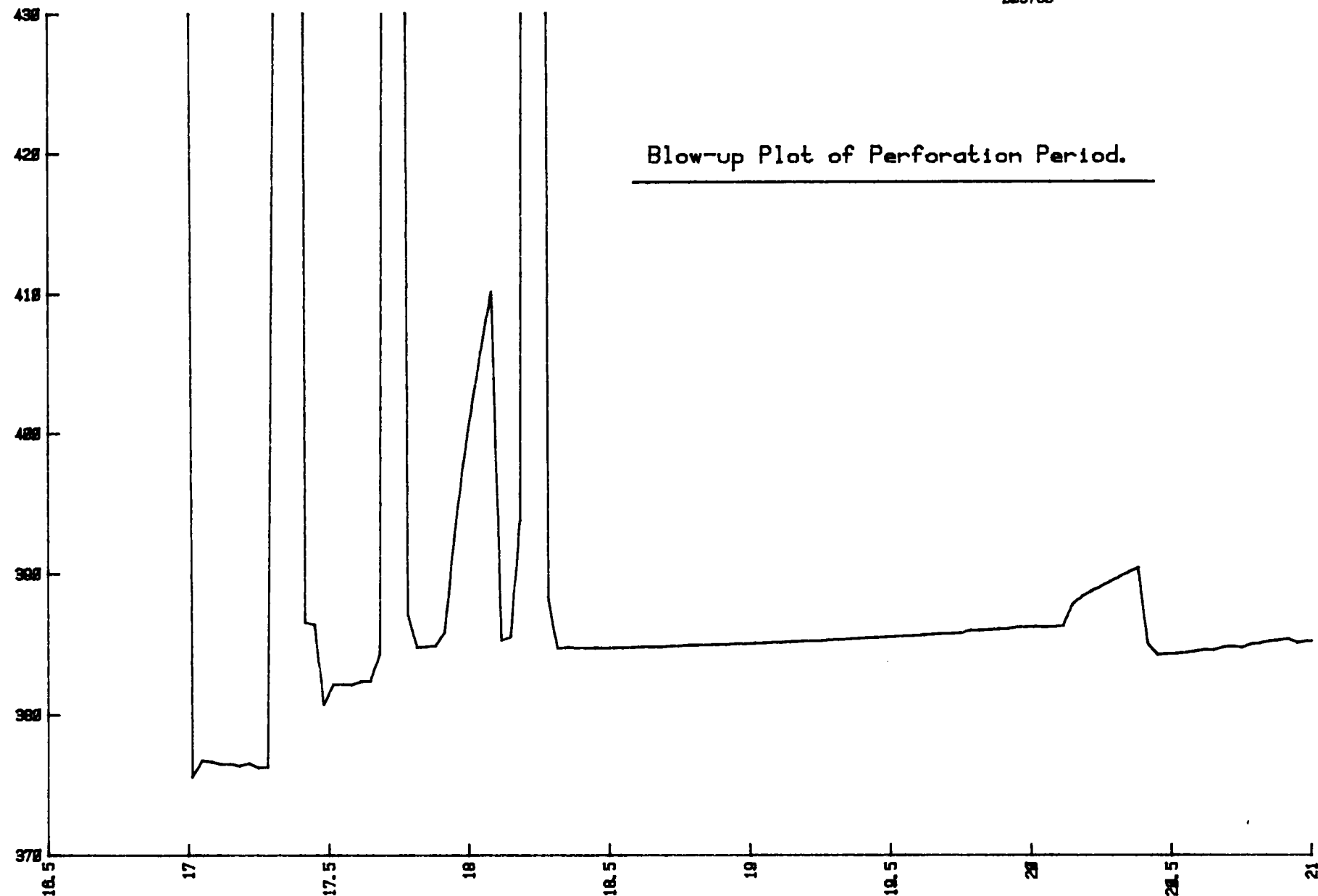
STATOIL
34/18-21
GULLFAKS SOUTH

NL Sperry-Sun, Inc.

PRESSURE/TEMP. Vs TIME PLOT

08 OCTOBER 1984
DST NO. 1.
GAUGE NO. 8881 (BOTTOM CARRIER).
D05788

Blow-up Plot of Perforation Period.



07/10/84

REAL TIME
Scale 1 inch = .5 hour

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 1

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	551.399	130.4	12:29	7/10/84
0.033	550.746	130.4	12:31	
0.067	551.282	130.4	12:33	
0.100	550.266	130.4	12:35	
0.133	550.385	130.5	12:37	
0.167	550.433	130.5	12:39	
0.200	550.268	130.5	12:41	
0.233	550.246	130.5	12:43	
0.267	550.293	130.5	12:45	
0.300	550.318	130.5	12:47	
0.333	550.358	130.6	12:49	
0.367	550.453	130.6	12:51	
0.400	550.509	130.6	12:53	
0.433	550.549	130.6	12:55	
0.467	550.628	130.6	12:57	
0.500	550.684	130.6	12:59	
0.533	552.254	130.7	13: 1	
0.600	551.812	130.7	13: 5	
0.633	552.058	130.7	13: 7	
0.667	552.184	130.7	13: 9	
0.700	552.294	130.7	13:11	
0.733	552.389	130.7	13:13	
0.767	552.515	130.7	13:15	
0.800	547.875	130.7	13:17	
0.833	547.985	130.7	13:19	
0.867	548.237	130.7	13:21	
0.900	548.332	130.7	13:23	
0.933	548.410	130.7	13:25	
0.967	547.008	130.7	13:27	
1.000	538.877	130.7	13:29	
1.033	538.940	130.7	13:31	
1.067	538.980	130.7	13:33	
1.100	538.996	130.7	13:35	
1.133	535.388	130.7	13:37	
1.167	549.381	130.7	13:39	
1.200	540.005	130.7	13:41	
1.233	539.169	130.7	13:43	
1.267	539.752	130.7	13:45	
1.300	539.689	130.7	13:47	
1.333	539.809	130.8	13:49	
1.367	550.477	130.8	13:51	
1.400	551.454	130.8	13:53	
1.433	551.895	130.8	13:55	
1.467	551.864	130.8	13:57	
1.500	551.832	130.8	13:59	
1.533	551.832	130.8	14: 1	
1.567	551.848	130.8	14: 3	
1.600	551.880	130.8	14: 5	
1.633	551.904	130.8	14: 7	
1.667	551.920	130.8	14: 9	

SET PACKER

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 2

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
1.700	551.936	130.8	14:11
1.733	551.967	130.8	14:13
1.767	551.983	130.8	14:15
1.800	552.015	130.8	14:17
1.833	552.030	130.8	14:19
1.867	552.046	130.8	14:21
1.900	552.055	130.8	14:23
1.933	552.086	130.8	14:25
1.967	552.118	130.8	14:27
2.000	552.134	130.8	14:29
2.033	552.165	130.8	14:31
2.067	552.197	130.8	14:33
2.100	552.213	130.8	14:35
2.133	552.260	130.8	14:37
2.167	552.276	130.8	14:39
2.200	552.285	130.8	14:41
2.233	552.332	130.8	14:43
2.267	552.348	130.8	14:45
2.300	552.379	130.8	14:47
2.333	552.395	130.8	14:49
2.367	552.426	130.8	14:51
2.400	552.442	130.8	14:53
2.433	552.474	130.8	14:55
2.467	552.483	130.9	14:57
2.500	552.498	130.9	14:59
2.533	552.514	130.9	15: 1
2.567	552.530	130.9	15: 3
2.600	552.546	130.9	15: 5
2.633	552.561	130.9	15: 7
2.667	552.577	130.9	15: 9
2.700	552.593	130.9	15:11
2.733	552.602	130.9	15:13
2.767	552.618	130.9	15:15
2.800	552.633	130.9	15:17
2.833	552.633	130.9	15:19
2.867	552.633	130.9	15:21
2.900	552.633	130.9	15:23
2.933	552.633	130.9	15:25
2.967	552.618	130.9	15:27
3.000	552.618	130.9	15:29
3.033	552.595	130.9	15:31
3.067	552.595	130.9	15:33
3.100	552.595	130.9	15:35
3.133	552.563	130.9	15:37
3.167	552.532	130.9	15:39
3.200	552.516	130.9	15:41
3.233	552.469	130.9	15:43
3.267	552.469	130.9	15:45
3.300	552.446	130.9	15:47
3.333	552.415	130.9	15:49

7/10/84

RIH WITH GR-CCL LOG.

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 3

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
3.367	552.352	130.9	15:51	7/10/84
3.400	552.304	130.9	15:53	
3.433	552.304	130.9	15:55	
3.467	552.241	130.9	15:57	
3.500	552.241	130.9	15:59	
3.533	552.241	130.9	16: 1	
3.567	552.172	131.0	16: 3	
3.600	552.187	131.0	16: 5	
3.633	552.172	131.0	16: 7	
3.667	552.156	131.0	16: 9	
3.700	552.156	131.0	16:11	
3.733	552.109	131.0	16:13	
3.767	552.140	131.0	16:15	
3.800	552.165	131.0	16:17	
3.833	552.196	131.0	16:19	
3.867	552.228	131.0	16:21	
3.900	552.259	131.0	16:23	
3.933	552.291	131.0	16:25	
3.967	552.322	131.0	16:27	
4.000	552.338	131.0	16:29	
4.033	552.363	131.0	16:31	
4.067	552.378	131.0	16:33	
4.100	552.410	131.0	16:35	
4.133	552.426	131.0	16:37	
4.167	552.158	131.0	16:39	
4.200	552.189	131.0	16:41	
4.233	552.237	131.0	16:43	
4.267	552.246	131.0	16:45	
4.300	552.277	131.0	16:47	
4.333	552.324	131.0	16:49	
4.367	552.356	131.0	16:51	
4.400	552.372	131.0	16:53	
4.433	552.372	131.0	16:55	
4.467	552.372	131.0	16:57	
4.500	552.396	131.0	16:59	
4.533	552.428	131.0	17: 1	
4.567	375.533	131.0	17: 3	
4.600	376.712	131.0	17: 5	
4.633	376.618	131.0	17: 7	
4.667	376.461	131.0	17: 9	
4.700	376.461	131.0	17:11	
4.733	376.346	131.1	17:13	
4.767	376.519	131.1	17:15	
4.800	376.221	131.1	17:17	
4.833	376.252	131.1	17:19	
4.867	450.284	131.1	17:21	
4.900	589.885	131.1	17:23	
4.933	796.216	131.1	17:25	
4.967	386.511	131.1	17:27	
5.000	386.354	131.1	17:29	

OPEN LPR-N VALVE

PRESSURE UP TUBING TO
ACTIVATE FIRING HEAD.

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 4

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
5.033	380.695	131.1	17:31	7/10/84
5.067	382.141	131.1	17:33	(GUNS FIRED ?).
5.100	382.141	131.1	17:35	
5.133	382.126	131.1	17:37	
5.167	382.361	131.1	17:39	
5.200	382.404	131.1	17:41	
5.233	384.259	131.1	17:43	
5.267	524.776	131.1	17:45	PRESSURE UP TUBING TO
5.300	788.337	131.1	17:47	ACTIVATE FIRING HEAD.
5.333	387.135	131.1	17:49	
5.367	384.777	131.1	17:51	
5.400	384.825	131.1	17:53	
5.433	384.883	131.1	17:55	
5.467	385.873	131.1	17:57	CLOSE LPR-N VALVE
5.500	392.459	131.1	17:59	
5.533	397.710	131.1	18: 1	
5.567	402.284	131.1	18: 3	
5.600	406.325	131.1	18: 5	
5.633	410.130	131.1	18: 7	
5.667	385.256	131.2	18: 9	OPEN LPR-N VALVE
5.700	385.539	131.2	18:11	
5.733	393.759	131.2	18:13	PRESSURE UP TUBING TO
5.767	571.965	131.2	18:15	ACTIVATE FIRING HEAD
5.800	812.399	131.2	18:17	
5.833	388.164	131.2	18:19	BLEED OFF PRESSURE
5.867	384.706	131.2	18:21	
5.900	384.769	131.2	18:23	
5.933	384.721	131.2	18:25	
5.967	384.717	131.2	18:27	
6.000	384.733	131.2	18:29	
6.033	384.717	131.2	18:31	
6.067	384.733	131.2	18:33	
6.100	384.748	131.2	18:35	
6.133	384.764	131.2	18:37	
6.167	384.796	131.2	18:39	
6.200	384.796	131.2	18:41	
6.233	384.796	131.2	18:43	
6.267	384.843	131.2	18:45	
6.300	384.874	131.2	18:47	
6.333	384.921	131.2	18:49	
6.367	384.917	131.2	18:51	
6.400	384.933	131.2	18:53	
6.433	384.964	131.2	18:55	
6.467	384.964	131.2	18:57	
6.500	385.027	131.2	18:59	
6.533	385.011	131.2	19: 1	
6.567	385.058	131.2	19: 3	
6.600	385.074	131.2	19: 5	
6.633	385.105	131.2	19: 7	
6.667	385.137	131.2	19: 9	

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 5

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
6.700	385.168	131.2	19:11	7/10/84
6.733	385.195	131.2	19:13	
6.767	385.227	131.2	19:15	
6.800	385.227	131.2	19:17	
6.833	385.290	131.2	19:19	
6.867	385.305	131.2	19:21	
6.900	385.352	131.2	19:23	
6.933	385.384	131.2	19:25	
6.967	385.431	131.2	19:27	
7.000	385.462	131.2	19:29	
7.033	385.478	131.2	19:31	
7.067	385.525	131.2	19:33	
7.100	385.572	131.2	19:35	
7.133	385.584	131.3	19:37	
7.167	385.631	131.3	19:39	
7.200	385.678	131.3	19:41	
7.233	385.725	131.3	19:43	
7.267	385.741	131.3	19:45	
7.300	385.788	131.3	19:47	
7.333	385.961	131.3	19:49	
7.367	385.977	131.3	19:51	
7.400	386.008	131.3	19:53	
7.433	386.039	131.3	19:55	
7.467	386.055	131.3	19:57	
7.500	386.181	131.3	19:59	
7.533	386.208	131.3	20: 1	
7.567	386.224	131.3	20: 3	
7.600	386.192	131.3	20: 5	
7.633	386.224	131.3	20: 7	
7.667	386.286	131.3	20: 9	
7.700	387.811	131.3	20:11	
7.733	388.361	131.3	20:13	
7.767	388.738	131.3	20:15	
7.800	389.068	131.3	20:17	
7.833	389.430	131.3	20:19	
7.867	389.744	131.3	20:21	
7.900	390.101	131.3	20:23	
7.933	390.400	131.3	20:25	
7.967	385.056	131.3	20:27	
8.000	384.239	131.3	20:29	
8.033	384.302	131.3	20:31	
8.067	384.317	131.3	20:33	
8.100	384.380	131.3	20:35	
8.133	384.490	131.3	20:37	
8.167	384.585	131.3	20:39	
8.200	384.569	131.3	20:41	
8.233	384.773	131.3	20:43	
8.267	384.836	131.3	20:45	
8.300	384.737	131.3	20:47	
8.333	384.989	131.3	20:49	

RIH WITH DETONATING BAR.

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 6

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
8.367	385.052	131.3	20:51	7/10/84
8.400	385.193	131.3	20:53	
8.433	385.256	131.3	20:55	
8.467	385.350	131.3	20:57	
8.500	385.083	131.3	20:59	
8.533	385.193	131.3	21: 1	
8.567	385.209	131.3	21: 3	
8.600	385.350	131.3	21: 5	
8.633	385.303	131.3	21: 7	
8.667	385.581	131.4	21: 9	
8.700	384.953	131.4	21:11	
8.733	384.890	131.4	21:13	
8.767	384.827	131.4	21:15	
8.800	384.780	131.4	21:17	
8.833	384.749	131.4	21:19	
8.867	384.749	131.4	21:21	
8.900	384.717	131.4	21:23	
8.933	384.261	131.4	21:25	
8.967	384.686	131.4	21:27	
9.000	384.686	131.4	21:29	
9.033	384.623	131.4	21:31	
9.067	384.493	131.4	21:33	
9.100	384.618	131.4	21:35	
9.133	384.665	131.4	21:37	
9.167	384.697	131.4	21:39	
9.200	384.744	131.4	21:41	
9.233	384.744	131.4	21:43	
9.267	384.665	131.4	21:45	
9.300	384.775	131.4	21:47	
9.333	384.445	131.4	21:49	
9.367	384.304	131.4	21:51	
9.400	383.880	131.4	21:53	
9.433	384.273	131.4	21:55	
9.467	384.158	131.4	21:57	
9.500	384.064	131.4	21:59	
9.533	384.001	131.4	22: 1	
9.567	383.922	131.4	22: 3	
9.600	383.844	131.4	22: 5	
9.633	383.797	131.4	22: 7	
9.667	383.954	131.4	22: 9	
9.700	383.860	131.4	22:11	
9.733	383.824	131.4	22:13	
9.767	383.855	131.4	22:15	
9.800	383.887	131.4	22:17	
9.833	384.122	131.4	22:19	
9.867	384.169	131.4	22:21	
9.900	384.028	131.4	22:23	
9.933	384.181	131.5	22:25	
9.967	384.306	131.5	22:27	
10.000	384.448	131.5	22:29	

ATTEMPT TO FIRE GUNS
WITH WIRELINE

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 7

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
10.033	384.621	131.5	22:31	7/10/84
10.067	384.762	131.5	22:33	
10.100	384.935	131.5	22:35	
10.133	385.056	131.5	22:37	
10.167	385.166	131.5	22:39	
10.200	385.339	131.5	22:41	
10.233	385.512	131.5	22:43	
10.267	385.590	131.5	22:45	
10.300	385.759	131.5	22:47	
10.333	385.822	131.5	22:49	
10.367	385.869	131.5	22:51	
10.400	385.900	131.5	22:53	
10.433	385.979	131.5	22:55	
10.467	386.010	131.5	22:57	
10.500	386.069	131.5	22:59	
10.533	386.194	131.5	23: 1	
10.567	386.320	131.5	23: 3	
10.600	386.524	131.5	23: 5	
10.633	386.603	131.5	23: 7	
10.667	386.650	131.5	23: 9	
10.700	386.614	131.6	23:11	
10.733	386.661	131.6	23:13	
10.767	386.693	131.6	23:15	
10.800	386.708	131.6	23:17	
10.833	386.771	131.6	23:19	
10.867	386.724	131.6	23:21	
10.900	386.767	131.6	23:23	
10.933	386.783	131.6	23:25	
10.967	386.814	131.6	23:27	
11.000	386.845	131.6	23:29	
11.033	386.893	131.6	23:31	
11.067	386.872	131.6	23:33	
11.100	386.935	131.6	23:35	
11.133	386.935	131.6	23:37	
11.167	386.982	131.6	23:39	
11.200	386.998	131.6	23:41	
11.233	387.045	131.6	23:43	
11.267	387.041	131.6	23:45	
11.300	385.155	131.6	23:47	
11.333	385.375	131.6	23:49	
11.367	384.904	131.6	23:51	
11.400	384.778	131.6	23:53	
11.433	384.747	131.6	23:55	
11.467	384.773	131.7	23:57	
11.500	384.789	131.7	23:59	
11.533	502.422	131.7	0: 1	8/10/84 PRESSURE UP TUBING TO
11.567	819.763	131.7	0: 3	ACTIVATE FIRING HEAD.
11.600	421.347	131.7	0: 5	BLEED OFF PRESSURE
11.633	384.695	131.7	0: 7	
11.667	384.773	131.7	0: 9	

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 8

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (PRE-TEST PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
11.700	384.773	131.7	0:11	8/10/84
11.733	384.789	131.7	0:13	
11.767	384.821	131.7	0:15	
11.800	695.334	131.7	0:17	
11.833	790.769	131.7	0:19	
11.867	836.546	131.8	0:21	
11.900	818.139	131.9	0:23	
11.933	777.427	131.8	0:25	
11.967	757.884	131.7	0:27	
12.000	451.687	131.4	0:29	

PRESSURE UP TUBING TO
ACTIVATE FIRING HEAD.

WELL OPENED TO FLOW.

10/25/84

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 1

STATOIL
GULLFAKS SOUTH
34/10-21

OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (INITIAL FLOW PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.017	451.687	131.4	0:29	8/10/84 WELL OPENED ON 48/64" FIXED CHOKE.
0.017	384.674	131.2	0:31	
0.050	383.789	130.7	0:33	
0.083	383.755	130.4	0:35	
0.117	383.658	130.4	0:37	
0.150	383.644	130.3	0:39	
0.183	383.642	130.2	0:41	
0.217	383.584	130.2	0:43	
0.250	383.557	130.1	0:45	
0.283	383.588	130.1	0:47	END OF FLOW PERIOD.

10/25/84

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 1

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (INITIAL BUILD-UP PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
-0.033	383.588	130.1	0:47
0.000	421.630	130.1	0:49
0.033	480.243	130.1	0:51
0.067	521.603	130.1	0:53
0.100	554.231	130.1	0:55
0.133	571.078	130.0	0:57
0.167	585.233	130.0	0:59
0.200	593.727	130.0	1: 1
0.233	600.369	130.0	1: 3
0.267	608.266	130.0	1: 5
0.300	616.937	129.9	1: 7
0.333	615.478	130.1	1: 9
0.367	610.059	130.2	1:11
0.400	605.067	130.3	1:13
0.433	596.985	130.4	1:15
0.467	587.586	130.5	1:17
0.500	580.081	130.5	1:19
0.533	573.208	130.6	1:21
0.567	569.142	130.6	1:23
0.600	565.928	130.7	1:25
0.633	563.793	130.7	1:27
0.667	562.817	130.8	1:29
0.700	562.306	130.8	1:31
0.733	561.401	130.8	1:33
0.767	560.417	130.8	1:35
0.800	559.378	130.9	1:37
0.833	558.709	130.9	1:39
0.867	558.214	130.9	1:41
0.900	557.529	131.0	1:43
0.933	556.876	131.0	1:45
0.967	556.183	131.0	1:47
1.000	555.483	131.0	1:49
1.033	554.704	131.0	1:51
1.067	554.067	131.0	1:53
1.100	553.240	131.1	1:55
1.133	552.603	131.1	1:57
1.167	551.689	131.1	1:59
1.200	550.674	131.1	2: 1
1.233	549.990	131.1	2: 3
1.267	549.369	131.2	2: 5
1.300	548.858	131.2	2: 7
1.333	548.385	131.2	2: 9
1.367	547.906	131.2	2:11
1.400	547.568	131.2	2:13
1.433	547.190	131.2	2:15
1.467	546.758	131.3	2:17
1.500	546.341	131.3	2:19
1.533	545.995	131.3	2:21
1.567	545.531	131.3	2:23
1.600	545.083	131.3	2:25

8/10/84 WELL SHUT-IN AT LPR-N
VALVE & CHOKE MANIFOLD.

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 2

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (INITIAL BUILD-UP PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.633	544.611	131.3	2:27	8/10/84
1.667	544.100	131.4	2:29	
1.700	543.510	131.4	2:31	
1.733	543.038	131.4	2:33	
1.767	542.543	131.4	2:35	
1.800	542.070	131.4	2:37	
1.833	541.560	131.4	2:39	
1.867	541.182	131.4	2:41	
1.900	540.756	131.4	2:43	
1.933	540.277	131.5	2:45	
1.967	539.931	131.5	2:47	
2.000	539.521	131.5	2:49	
2.033	539.152	131.5	2:51	
2.067	538.806	131.5	2:53	
2.100	538.491	131.5	2:55	
2.133	538.153	131.5	2:57	
2.167	537.791	131.5	2:59	
2.200	537.555	131.5	3: 1	
2.233	537.344	131.5	3: 3	
2.267	537.092	131.5	3: 5	
2.300	536.761	131.5	3: 7	
2.333	536.486	131.6	3: 9	
2.367	536.313	131.6	3:11	
2.400	536.282	131.6	3:13	
2.433	536.401	131.6	3:15	
2.467	536.417	131.6	3:17	
2.500	536.275	131.6	3:19	
2.533	536.316	131.6	3:21	
2.567	536.520	131.6	3:23	
2.600	536.646	131.6	3:25	
2.633	536.608	131.6	3:27	
2.667	536.530	131.6	3:29	
2.700	536.435	131.6	3:31	
2.733	536.177	131.7	3:33	
2.767	535.940	131.7	3:35	
2.800	535.751	131.7	3:37	
2.833	535.578	131.7	3:39	
2.867	535.540	131.7	3:41	
2.900	535.383	131.7	3:43	
2.933	535.414	131.7	3:45	
2.967	535.556	131.7	3:47	
3.000	535.801	131.7	3:49	
3.033	535.848	131.7	3:51	
3.067	535.754	131.7	3:53	
3.100	535.785	131.7	3:55	
3.133	535.747	131.7	3:57	
3.167	535.653	131.7	3:59	
3.200	535.684	131.7	4: 1	
3.233	535.779	131.7	4: 3	
3.267	535.945	131.8	4: 5	

RIH WITH GEOSERVICES
PRESSURE GAUGES

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 3

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1: GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (INITIAL BUILD-UP PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
3.300	536.087	131.8	4: 7	8/10/84
3.333	536.166	131.8	4: 9	
3.367	536.134	131.8	4:11	
3.400	536.191	131.8	4:13	
3.433	536.206	131.8	4:15	
3.467	536.206	131.8	4:17	
3.500	536.112	131.8	4:19	
3.533	536.049	131.8	4:21	
3.567	535.979	131.8	4:23	
3.600	535.838	131.8	4:25	
3.633	535.633	131.8	4:27	
3.667	535.664	131.8	4:29	
3.700	535.752	131.8	4:31	
3.733	535.768	131.8	4:33	
3.767	535.689	131.8	4:35	
3.800	535.658	131.8	4:37	
3.833	535.777	131.9	4:39	
3.867	535.935	131.9	4:41	
3.900	484.198	131.9	4:43	
3.933	486.338	131.9	4:45	
3.967	488.503	131.9	4:47	
4.000	490.045	131.9	4:49	
4.033	491.225	131.9	4:51	
4.067	492.578	131.9	4:53	
4.100	493.642	131.9	4:55	
4.133	494.634	131.9	4:57	
4.167	495.625	131.9	4:59	
4.200	496.318	131.9	5: 1	
4.233	497.734	131.9	5: 3	
4.267	498.001	131.9	5: 5	
4.300	498.883	131.9	5: 7	
4.333	499.308	131.9	5: 9	
4.367	500.598	131.9	5:11	
4.400	500.897	131.9	5:13	
4.433	501.788	131.9	5:15	
4.467	502.150	131.9	5:17	
4.500	503.251	131.9	5:19	
4.533	503.519	131.9	5:21	
4.567	504.007	131.9	5:23	
4.600	504.888	131.9	5:25	
4.633	504.747	131.9	5:27	
4.667	506.179	131.9	5:29	
4.700	505.675	131.9	5:31	
4.733	505.109	131.9	5:33	
4.767	504.337	131.9	5:35	
4.800	503.346	131.9	5:37	
4.833	502.307	131.9	5:39	
4.867	501.143	131.9	5:41	
4.900	500.324	131.9	5:43	
4.933	499.034	131.9	5:45	

OPEN LPR-N VALVE.

SET GAUGES IN
"F" NIPPLE

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 4

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (INITIAL BUILD-UP PERIOD).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
4.967	497.769	132.0	5:47	8/10/84
5.000	496.463	132.0	5:49	
5.033	495.015	132.0	5:51	
5.067	493.583	132.0	5:53	
5.100	492.324	132.0	5:55	
5.133	492.623	132.0	5:57	
5.167	493.237	132.0	5:59	
5.200	493.819	132.0	6: 1	
5.233	494.386	132.0	6: 3	
5.267	494.921	132.0	6: 5	
5.300	495.456	132.0	6: 7	
5.333	496.007	132.0	6: 9	
5.367	495.959	132.0	6:11	
5.400	496.368	132.0	6:13	

END OF BUILD-UP PERIOD.

10/25/84

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 1

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (SECOND FLOW/INJECTION PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
-0.033	496.368	132.0	6:13
0.000	383.982	132.0	6:15
0.033	383.337	132.0	6:17
0.067	383.380	132.0	6:19
0.100	383.364	132.0	6:21
0.133	383.443	132.0	6:23
0.167	383.521	132.0	6:25
0.200	383.521	132.0	6:27
0.233	383.506	132.0	6:29
0.267	383.521	132.0	6:31
0.300	383.553	132.0	6:33
0.333	383.537	132.0	6:35
0.367	383.553	132.0	6:37
0.400	383.553	132.0	6:39
0.433	383.553	132.0	6:41
0.467	383.553	132.0	6:43
0.500	383.553	132.0	6:45
0.533	383.553	132.0	6:47
0.567	383.553	132.0	6:49
0.600	383.564	132.0	6:51
0.633	383.548	132.0	6:53
0.667	383.564	132.0	6:55
0.700	383.548	132.0	6:57
0.733	383.517	132.0	6:59
0.767	383.564	132.0	7: 1
0.800	383.548	132.0	7: 3
0.833	383.517	132.0	7: 5
0.867	383.533	132.0	7: 7
0.900	383.533	132.0	7: 9
0.933	383.548	132.0	7:11
0.967	383.564	132.0	7:13
1.000	383.564	132.0	7:15
1.033	383.564	132.0	7:17
1.067	383.548	132.0	7:19
1.100	383.548	132.0	7:21
1.133	383.544	132.0	7:23
1.167	383.560	132.0	7:25
1.200	383.544	132.0	7:27
1.233	383.544	132.0	7:29
1.267	383.544	132.0	7:31
1.300	383.544	132.0	7:33
1.333	383.544	132.0	7:35
1.367	383.575	132.0	7:37
1.400	383.544	132.0	7:39
1.433	383.560	132.0	7:41
1.467	383.560	132.0	7:43
1.500	383.544	132.0	7:45
1.533	383.544	132.0	7:47
1.567	383.544	132.0	7:49
1.600	383.575	132.0	7:51

8/10/84 WELL OPENED ON 48/64"
FIXED CHOKE.CLOSE CHOKE & OPEN BUBBLE
HOSE.

10/25/84

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 2

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (SECOND FLOW/INJECTION PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.633	383.544	132.0	7:53	8/10/84
1.667	383.555	132.1	7:55	
1.700	383.540	132.1	7:57	
1.733	383.555	132.1	7:59	
1.767	383.571	132.1	8: 1	
1.800	383.555	132.1	8: 3	
1.833	383.571	132.1	8: 5	
1.867	383.555	132.1	8: 7	
1.900	383.540	132.1	8: 9	
1.933	383.540	132.1	8:11	
1.967	383.540	132.1	8:13	
2.000	383.555	132.1	8:15	
2.033	383.571	132.1	8:17	
2.067	383.540	132.1	8:19	
2.100	383.540	132.1	8:21	
2.133	383.555	132.1	8:23	
2.167	383.540	132.1	8:25	
2.200	383.535	132.1	8:27	
2.233	383.551	132.1	8:29	
2.267	383.567	132.1	8:31	
2.300	383.582	132.1	8:33	
2.333	383.551	132.1	8:35	
2.367	383.519	132.1	8:37	
2.400	383.551	132.1	8:39	
2.433	383.551	132.1	8:41	
2.467	383.551	132.1	8:43	
2.500	383.567	132.1	8:45	
2.533	383.567	132.1	8:47	
2.567	383.519	132.1	8:49	
2.600	383.567	132.1	8:51	
2.633	383.567	132.1	8:53	
2.667	383.551	132.1	8:55	
2.700	383.535	132.1	8:57	
2.733	383.546	132.1	8:59	
2.767	383.515	132.1	9: 1	
2.800	383.578	132.1	9: 3	
2.833	383.515	132.1	9: 5	
2.867	383.562	132.1	9: 7	
2.900	383.531	132.1	9: 9	
2.933	383.578	132.1	9:11	
2.967	383.562	132.1	9:13	
3.000	383.531	132.1	9:15	
3.033	383.578	132.1	9:17	
3.067	383.546	132.1	9:19	
3.100	383.562	132.1	9:21	
3.133	383.546	132.1	9:23	
3.167	383.562	132.1	9:25	
3.200	383.546	132.1	9:27	
3.233	383.531	132.1	9:29	
3.267	383.558	132.1	9:31	

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 3

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001; SENSING DEPTH 3865.4 M.RKB. (SECOND FLOW/INJECTION PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
3.300	383.542	132.1	9:33	8/10/84
3.333	383.558	132.1	9:35	
3.367	383.542	132.1	9:37	
3.400	383.542	132.1	9:39	
3.433	383.558	132.1	9:41	
3.467	383.542	132.1	9:43	
3.500	383.573	132.1	9:45	
3.533	383.542	132.1	9:47	
3.567	383.542	132.1	9:49	
3.600	383.558	132.1	9:51	
3.633	383.526	132.1	9:53	
3.667	383.542	132.1	9:55	
3.700	383.510	132.1	9:57	
3.733	383.558	132.1	9:59	
3.767	383.558	132.1	10: 1	
3.800	383.569	132.2	10: 3	
3.833	383.585	132.2	10: 5	
3.867	383.553	132.2	10: 7	
3.900	383.537	132.2	10: 9	
3.933	383.553	132.2	10:11	
3.967	383.569	132.2	10:13	CLOSE BUBBLE HOSE.
4.000	383.616	132.2	10:15	
4.033	383.585	132.2	10:17	
4.067	383.600	132.2	10:19	
4.100	576.816	132.2	10:21	
4.133	802.258	132.2	10:23	
4.167	798.608	132.2	10:25	
4.200	754.119	132.2	10:27	
4.233	712.308	131.9	10:29	INJECT 1.59 M3 OF WATER
4.267	698.175	131.7	10:31	INTO FORMATION
4.300	717.006	131.4	10:33	
4.333	728.407	131.2	10:35	
4.367	733.158	131.1	10:37	STOP INJECTION.
4.400	735.708	131.0	10:39	
4.433	383.068	130.9	10:41	
4.467	413.176	130.9	10:43	CLOSE CHOKE & OPEN HOSE.
4.500	383.162	130.8	10:45	OPEN CHOKE & CLOSE HOSE
4.533	383.286	130.7	10:47	CLOSE CHOKE & OPEN HOSE.
4.567	383.385	130.7	10:49	
4.600	392.760	130.6	10:51	
4.633	398.279	130.6	10:53	
4.667	384.510	130.6	10:55	CLOSE BUBBLE HOSE & OPEN
4.700	383.366	130.6	10:57	CHOKE.
4.733	383.229	130.6	10:59	
4.767	383.229	130.6	11: 1	
4.800	383.312	130.5	11: 3	CLOSE CHOKE & OPEN
4.833	387.374	130.5	11: 5	BUBBLE HOSE.
4.867	391.341	130.5	11: 7	
4.900	384.784	130.5	11: 9	CLOSE BUBBLE HOSE & OPEN
4.933	383.404	130.5	11:11	CHOKE.

3/13/85

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

PAGE: 4

STATOIL
GULLFAKS SOUTH
34/10-21OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO.1. GAUGE 0001, SENSING DEPTH 3865.4 M.RKB. (SECOND FLOW/INJECTION PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
4.967	383.236	130.4	11:13
5.000	383.207	130.5	11:15
5.033	383.229	130.6	11:17
5.067	383.232	130.6	11:19
5.100	383.223	130.7	11:21
5.133	383.272	130.8	11:23
5.167	383.232	130.8	11:25
5.200	383.282	130.9	11:27
5.233	383.304	130.9	11:29
5.267	383.322	131.0	11:31
5.300	383.320	131.1	11:33
5.333	383.385	131.2	11:35
5.367	383.356	131.2	11:37
5.400	383.395	131.3	11:39
5.433	383.397	131.4	11:41
5.467	383.388	131.4	11:43
5.500	383.438	131.5	11:45
5.533	383.397	131.5	11:47
5.567	383.415	131.6	11:49
5.600	383.422	131.7	11:51
5.633	383.460	131.7	11:53
5.667	383.436	131.8	11:55
5.700	383.474	131.8	11:57
5.733	383.418	131.9	11:59
5.767	383.613	131.9	12: 1
5.800	383.907	131.9	12: 3
5.833	384.228	132.0	12: 5
5.867	384.475	132.0	12: 7
5.900	384.581	132.0	12: 9
5.933	384.592	132.1	12:11
5.967	384.567	132.1	12:13
6.000	384.500	132.1	12:15
6.033	384.449	132.2	12:17
6.067	384.401	132.2	12:19

8/10/84

CLOSE CHOKE & OPEN
BUBBLE HOSE.

END OF FLOW PERIOD.

SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
GULLFAKS SOUTH
34/10-21

OFFSHORE NORWAY
06 OCTOBER 1984
NR-MS-40182

DST NO. 1. SEQUENCE OF EVENTS.

DATE	TIME	OPERATION
06/10/84	04:45	ACTIVATE GAUGE NO. 0191.
"	04:46	ACTIVATE GAUGE NO. 0001.
"	05:30	GAUGES IN CARRIER.
07/10/84	13:50	SET PACKER.
"	14:16	RIH WITH GR-CCL LOG.
"	17:02	OPEN LPR-N VALVE.
"	17:22	PRESSURE UP STRING TO ACTIVATE FIRING HEAD.
"	17:26	BLEED OFF PRESSURE. NO INDICATION OF GUNS FIRING
"	17:45	PRESSURE UP STRING TO ACTIVATE FIRING HEAD.
"	17:49	BLEED OFF PRESSURE. NO INDICATION OF GUNS FIRING
"	17:57	CLOSE LPR-N VALVE.
"	18:08	OPEN LPR-N VALVE
"	18:10	OPEN CHOKE MANIFOLD
"	18:13	PRESSURE UP STRING TO ACTIVATE FIRING HEAD
"	18:19	BLEED OFF PRESSURE. NO INDICATION OF GUNS FIRING
"	20:28	RIH WITH DETONATING BAR.
"	21:25	ATTEMPT TO FIRE GUNS WITH WIRELINE. NO SUCCESS
08/10/84	00:01	PRESSURE UP STRING TO ACTIVATE FIRING HEAD.
"	00:05	BLEED OFF PRESSURE
"	00:17	PRESSURE UP STRING TO 460 BARS
"	00:19	PUMP 0.795 M3 INTO FORMATION
"	00:23	BLEED OFF PRESSURE
"	00:30	WELL OPENED ON 48/64" FIXED CHOKE.
"	00:49	WELL SHUT-IN AT LPR-N VALVE & CHOKE MANIFOLD.
"	03:43	RIH WITH GEOSERVICES PRESSURE GAUGES.
"	04:44	OPEN LPR-N VALVE.
"	05:32	SET GAUGES IN "F" NIPPLE
"	06:15	WELL OPENED ON 48/64" FIXED CHOKE.
"	06:23	CLOSE CHOKE & OPEN BUBBLE HOSE.
"	10:13	CLOSE BUBBLE HOSE.
"	10:29	INJECT 1.59 M3 OF WATER INTO FORMATION
"	10:37	STOP INJECTING. BLEED BACK 0.16 M3.
"	10:40	WELL OPENED ON 48/64" FIXED CHOKE.
"	10:42	CLOSE CHOKE & OPEN BUBBLE HOSE.
"	10:44	CLOSE BUBBLE HOSE & OPEN CHOKE
"	10:46	CLOSE CHOKE & OPEN BUBBLE HOSE.
"	10:55	CLOSE BUBBLE HOSE & OPEN CHOKE.
"	11:03	CLOSE CHOKE & OPEN BUBBLE HOSE.
"	11:09	CLOSE BUBBLE HOSE & OPEN CHOKE.
"	12:01	CLOSE CHOKE & OPEN BUBBLE HOSE.
"	12:21	CLOSE FAILSAFE WING VALVE.
"	12:30	OPEN APR-M - START REVERSING CIRCULATION.
"	14:10	UNSEAT PACKER.
"	23:30	GAUGES OUT OF CARRIER