

LTEK DOK.SENTER

.NR. 12483030009

ODE Well 1/9-6 nr 8

Returneres etter bruk

in international, inc.

Pressure Survey Report

For

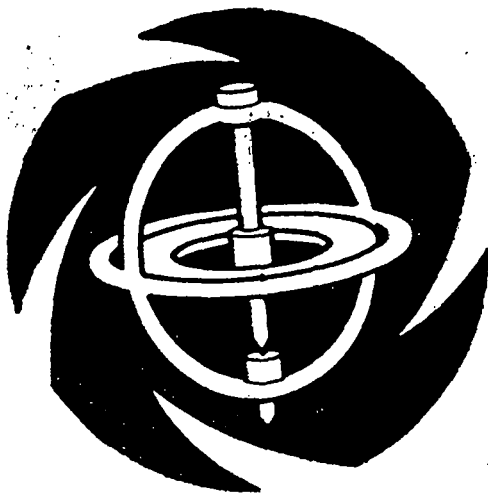
PHILLIPS PETROLEUM CO. NORWAY

WELL NO: 1/9 - 6

DATE: 21 November 1982

TEST NO: DST NO. 4

UPSTREAM & DOWNSTREAM CHOKE PRESSURE



(A Sperry-Sun Company)

Precision Instruments / Professional Service



PRESSURE TEST DATA SUMMARY

COMPANY: PHILLIPS PETROLEUM CO. NORWAY DATE: 21 Nov. 1982

FIELD: EKOFISK - GAMMA WELL NO: 1/9 - 6 JOB NO: MRPG-1359C-NOR

TEST TYPE: DST TEST NO: 4 RUN NO: _____ MAX B.H.T. 252 °F

PERFORATION INTERVAL: 11210-11240, 11300-11350 FEET ZONE: _____

	TOP	MIDDLE	BOTTOM
GAUGE TYPE/NO.	<u>MK III 0064</u>	<u>MK III 0051</u>	_____
PRESSURE SENSING DEPTH	<u>10930 FT</u>	<u>10939 FT</u>	_____
ELEMENT SIZE	<u>10 K</u>	<u>10 K</u>	_____
TIME MODE	<u>2 MIN</u>	<u>2 MIN</u>	_____
BATTERY TYPE	<u>SILVER OXIDE</u>	<u>SILVER OXIDE</u>	_____

EVENT	SURFACE TIMES & DATES	TEMP.	°F
OPEN APR-N VALVE	10:13	21 Nov. 82	
WELL OPENED ON 08/64" ADJ. CHOKE	10:21	"	
INCREASE TO 12/64" ADJ. CHOKE	10:23	"	
" 18/64" " "	10:24	"	
" 24/64" " "	10:25	"	
" 32/64" " "	10:27	"	
" 48/64" " "	10:29	"	
WELL SHUT IN AT CHOKE	10:44	"	
WELL OPENED ON 08/64" ADJ. CHOKE	12:15	"	
INCREASE TO 32/64" ADJ. CHOKE	12:16	"	
" 44/64" " "	12:17	"	
SWITCH FLOW THROUGH SEPERATOR	15:15	"	
SWITCH FLOW TO TANK	17:00	"	
WELL SHUT-IN AT CHOKE	17:17	"	
LEAK IN FLCWLINE	15:15	22 Nov. 82	
CLOSE LUBRICATOR VALVE	16:04	"	
OPEN APR-N VALVE	01:03	24 Nov. 82	
WELL OPENED ON 10/64" ADJ. CHOKE	01:33	"	
INCREASE TO 32/64" ADJ. CHOKE	01:36	"	
" 40/64" " "	02:06	"	
SWITCH FLOW THROUGH SEPERATOR	03:40	"	
INCREASE TO 56/64" ADJ. CHOKE	05:34	"	

M.R.P.G. PRESSURES ARE RELATIVE TO GAUGE CLOCK TIMES.
 S.P.G. PRESSURES ARE RELATIVE TO TIME GRADIENT CALCULATED FROM SURFACE TIMES.



**PRESSURE TEST DATA SUMMARY
CONTINUATION SHEET**

COMPANY: PHILLIPS PETROLEUM CO. NORWAY

JOB NO: MRPG-1359C-NOR

EVENT	SURFACE TIMES & DATES		TEMP.	°F
CHANGE TO 56/64" FIXED CHOKE	06:10	24 Nov. 82		
DECREASE TO 24/64" ADJ. CHOKE	08:42	"		
CHANGE TO 26/64" FIXED CHOKE	08:45	"		
WELL SHUT-IN AT CHOKE	13:01	"		
CLOSE MASTER VALVE	13:35	"		
RIG-UP AND RUN WIRELINE	14:00	"		
RIH WITH GAUGES	23:46	"		
POOH WITH GAUGES	03:06	25 Nov. 82		
OPEN LUBRICATOR VALVE	04:05	"		
CLOSE LUBRICATOR VALVE	10:28	"		
OPEN LUBRICATOR VALVE	13:52	"		
WELL OPENED ON 08/64" ADJ. CHOKE	14:00	"		
INCREASE TO 18/64" ADJ. CHOKE	14:01	"		
" 26/64" " "	14:02	"		
WELL SHUT IN AT CHOKE/APR-N SHUT	14:37	"		
PUMPING DIESEL	16:30	"		
WELL OPENED ON 16/64" ADJ. CHOKE	18:20	"		
INCREASE TO 26/64" ADJ. CHOKE	18:21	"		
CHANGE TO 26/64" FIXED CHOKE	18:23	"		
SWITCH FLOW THROUGH SEPERATOR	19:05	"		
CHANGE TO 26/64" ADJ. CHOKE	03:32	26 Nov. 82		
INCREASE TO 56/64" ADJ. CHOKE	03:36	"		
CHANGE TO 56/64" FIXED CHOKE	03:40	"		
" 56/64" ADJ. CHOKE	03:49	"		
DECREASE TO 48/64" ADJ. CHOKE	03:51	"		
CHANGE TO 48/64" FIXED CHOKE	03:59	"		
" 48/64" ADJ. CHOKE	11:32	"		
WELL SHUT-IN FOR BUILD-UP	11:33	"		
CLOSE LUBRICATOR VALVE	11:49	"		
RIH WITH GAUGES	13:20	"		
APR-N VALVE SHUT/POOH WITH GAUGES	20:30	"		

M.R.P.G. PRESSURES ARE RELATIVE TO GAUGE CLOCK TIMES.

S.P.G. PRESSURES ARE RELATIVE TO TIME GRADIENT CALCULATED FROM SURFACE TIMES.

PHILLIPS PETROLEUM CO. NORWAY
EKOFISK GAMMA
1/9-6

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DST NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (INITIAL CLEAN-UP FLOW)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
0.000	2457.0	46.7	10:21	21/12/82 WELL OPENED FOR CLEAN-UP FLOW
0.017	2330.0	46.4	10:22	ON 08/64" ADJ. CHOKE
0.033	2267.0	46.4	10:23	INCREASE TO 12/64" ADJ. CHOKE
0.050	1634.0	44.4	10:24	INCREASE TO 18/64" ADJ. CHOKE
0.067	898.0	47.1	10:25	INCREASE TO 24/64" ADJ. CHOKE
0.083	373.0	47.2	10:26	
0.100	338.0	47.2	10:27	INCREASE TO 32/64" ADJ. CHOKE
0.117	90.0	47.9	10:28	
0.133	95.0	48.3	10:29	INCREASE TO 48/64" ADJ. CHOKE
0.150	8.0	49.4	10:30	
0.167	5.0	50.7	10:31	
0.183	5.0	52.1	10:32	
0.200	6.0	53.4	10:33	
0.217	9.0	54.7	10:34	
0.233	8.0	55.9	10:35	
0.250	7.0	57.0	10:36	
0.267	7.0	57.8	10:37	
0.283	6.0	58.6	10:38	
0.300	7.0	59.4	10:39	
0.317	8.0	60.2	10:40	
0.333	9.0	60.9	10:41	
0.350	9.0	61.7	10:42	
0.367	9.0	62.3	10:43	
0.383	9.0	63.1	10:44	WELL SHUT-IN AT CHOKE
0.400	206.0	63.2	10:45	
0.417	420.0	63.1	10:46	
0.433	635.0	63.1	10:47	
0.450	846.0	63.1	10:48	
0.467	1055.0	62.9	10:49	
0.483	1255.0	62.7	10:50	
0.500	1436.0	62.2	10:51	
0.517	1608.0	61.9	10:52	
0.533	1768.0	61.5	10:53	
0.550	1905.0	61.2	10:54	
0.567	2036.0	60.9	10:55	
0.583	2151.0	60.7	10:56	
0.600	2250.0	60.4	10:57	
0.617	2337.0	60.2	10:58	
0.633	2404.0	59.9	10:59	
0.650	2472.0	59.7	11: 0	
0.667	2521.0	59.4	11: 1	
0.683	2571.0	59.2	11: 2	
0.700	2608.0	59.0	11: 3	
0.717	2635.0	58.8	11: 4	
0.733	2665.0	58.5	11: 5	
0.750	2692.0	58.5	11: 6	
0.767	2704.0	58.3	11: 7	
0.783	2722.0	58.2	11: 8	
0.800	2741.0	58.1	11: 9	
0.900	2798.0	57.1	11:15	

PHILLIPS PETROLEUM CO. NORWAY
EKOFISK GAMMA
1/9-6

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DST NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (INITIAL CLEAN-UP FLOW)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
0.983	2827.0	56.3	11:20	21/12/82
1.067	2856.0	55.6	11:25	
1.150	2874.0	55.0	11:30	
1.233	2883.0	54.4	11:35	
1.317	2888.0	53.9	11:40	
1.717	2895.0	52.0	12: 4	
1.817	2895.0	51.7	12:10	
1.900	2893.0	51.4	12:15	
1.917	1049.0	56.3	12:16	
1.933	510.0	64.3	12:17	
1.950	325.0	68.3	12:18	
1.967	275.0	71.1	12:19	
1.983	278.0	73.7	12:20	
2.000	316.0	75.4	12:21	
2.017	352.0	77.2	12:22	
2.033	367.0	78.3	12:23	
2.050	383.0	79.5	12:24	
2.067	404.0	80.4	12:25	
2.083	429.0	81.9	12:26	
2.100	448.0	82.9	12:27	
2.117	466.0	83.8	12:28	
2.133	486.0	84.6	12:29	
2.150	507.0	85.4	12:30	
2.167	520.0	85.9	12:31	
2.183	528.0	85.1	12:32	
2.200	325.0	81.0	12:33	
2.217	376.0	84.0	12:34	
2.233	384.0	85.0	12:35	
2.250	353.0	84.4	12:36	
2.267	362.0	85.9	12:37	
2.283	442.0	88.0	12:38	
2.300	574.0	91.3	12:39	
2.317	633.0	92.7	12:40	
2.400	1219.0	108.2	12:45	
2.483	1175.0	106.3	12:50	
2.567	1236.0	99.2	12:55	
2.650	1002.0	92.6	13: 0	
2.733	884.0	88.3	13: 5	
2.817	789.0	87.6	13:10	
2.900	839.0	86.9	13:15	
2.983	783.0	84.8	13:20	
3.067	759.0	84.3	13:25	
3.150	740.0	84.0	13:30	
3.233	711.0	83.8	13:35	
3.317	689.0	83.1	13:40	
3.400	672.0	82.5	13:45	
3.483	658.0	82.7	13:50	
3.567	634.0	81.9	13:55	
3.650	650.0	81.3	14: 0	
3.733	641.0	80.8	14: 5	

WELL OPENED TO FLOW
INCREASE TO 32/64" ADJ. CHOKE
INCREASE TO 44/64" ADJ. CHOKE

GAS TO SURFACE

PHILLIPS PETROLEUM CO. NORWAY
EKOFISK GAMMA
1/9-6

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DST NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (INITIAL CLEAN-UP FLOW)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
3.817	625.0	82.6	14:10	21/12/82
3.900	641.0	80.0	14:15	
3.983	618.0	78.5	14:20	
4.067	604.0	81.3	14:25	
4.150	597.0	79.4	14:30	
4.233	595.0	77.6	14:35	
4.317	596.0	76.4	14:40	
4.400	582.0	76.9	14:45	
4.483	550.0	75.7	14:50	
4.567	564.0	75.9	14:55	
4.650	561.0	76.0	15: 0	
4.733	543.0	75.3	15: 5	
4.817	529.0	76.2	15:10	
4.900	545.0	79.5	15:15	SWITCH FLOW THROUGH SEPERATOR
4.983	568.0	76.2	15:20	
5.067	526.0	73.8	15:25	
5.150	514.0	73.6	15:30	
5.233	539.0	77.4	15:35	
5.317	550.0	76.4	15:40	
5.400	508.0	74.2	15:45	
5.483	540.0	77.6	15:50	
5.567	527.0	76.8	15:55	
5.650	474.0	74.7	16: 0	
5.733	537.0	76.5	16: 5	
5.817	497.0	75.0	16:10	
5.900	476.0	74.6	16:15	
5.983	522.0	77.0	16:20	
6.067	507.0	75.3	16:25	
6.150	494.0	76.1	16:30	
6.233	500.0	77.7	16:35	
6.317	517.0	76.5	16:40	
6.400	495.0	76.1	16:45	
6.483	481.0	75.8	16:50	
6.567	446.0	73.9	16:55	
6.650	493.0	75.6	17: 0	SWITCH FLOW TO TANK
6.733	479.0	79.4	17: 5	
6.817	490.0	76.2	17:10	
6.900	508.0	76.7	17:15	WELL SHUT IN AT CHOKE

PHILLIPS PETROLEUM CO. NORWAY
EKOFISK GAMMA
1/9-6

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DST NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (INITIAL BUILD-UP PERIOD)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME
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0.000	508.0	17:15	21/12/82 WELL SHUT-IN AT 17:17
0.067	643.0	17:19	
0.083	693.0	17:20	
0.100	742.0	17:21	
0.117	791.0	17:22	
0.133	835.0	17:23	
0.150	880.0	17:24	
0.167	924.0	17:25	
0.183	967.0	17:26	
0.200	1008.0	17:27	
0.217	1049.0	17:28	
0.233	1088.0	17:29	
0.250	1128.0	17:30	
0.267	1166.0	17:31	
0.283	1203.0	17:32	
0.300	1240.0	17:33	
0.317	1276.0	17:34	
0.333	1311.0	17:35	
0.350	1345.0	17:36	
0.367	1378.0	17:37	
0.383	1413.0	17:38	
0.400	1443.0	17:39	
0.417	1476.0	17:40	
0.433	1506.0	17:41	
0.450	1537.0	17:42	
0.467	1566.0	17:43	
0.483	1595.0	17:44	
0.500	1625.0	17:45	
0.517	1653.0	17:46	
0.533	1682.0	17:47	
0.550	1710.0	17:48	
0.567	1738.0	17:49	
0.583	1766.0	17:50	
0.600	1796.0	17:51	
0.617	1819.0	17:52	
0.633	1844.0	17:53	
0.650	1871.0	17:54	
0.667	1896.0	17:55	
0.683	1921.0	17:56	
0.700	1946.0	17:57	
0.717	1971.0	17:58	
0.733	1996.0	17:59	
1.050	2420.0	18:18	
1.300	2701.0	18:33	
1.550	2948.0	18:48	
1.800	3162.0	19: 3	
2.050	3346.0	19:18	
2.300	3506.0	19:33	
2.550	3637.0	19:48	
2.800	3748.0	20: 3	

12/ 6/82

SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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PHILLIPS PETROLEUM CO. NORWAY
EKOFISK GAMMA
1/9-6OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DST NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (INITIAL BUILD-UP PERIOD)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
3.050	3849.0	20:18	21/12/82
3.300	3939.0	20:33	
3.550	4016.0	20:48	
3.800	4082.0	21: 3	
4.050	4140.0	21:18	
4.300	4191.0	21:33	
4.550	4236.0	21:48	
4.800	4277.0	22: 3	
5.050	4315.0	22:18	
5.300	4349.0	22:33	
5.550	4379.0	22:48	
5.800	4408.0	23: 3	
6.050	4435.0	23:18	
6.300	4459.0	23:33	
6.550	4482.0	23:48	
6.800	4503.0	0: 3	22/12/82
7.050	4523.0	0:18	
7.300	4540.0	0:33	
7.550	4557.0	0:48	
7.800	4573.0	1: 3	
8.050	4587.0	1:18	
8.300	4603.0	1:33	
8.550	4617.0	1:48	
8.800	4629.0	2: 3	
9.050	4642.0	2:18	
9.300	4654.0	2:33	
9.550	4665.0	2:48	
9.800	4677.0	3: 3	
10.050	4687.0	3:18	
10.300	4697.0	3:33	
10.550	4708.0	3:48	
10.800	4716.0	4: 3	
11.050	4725.0	4:18	
11.300	4733.0	4:33	
11.550	4741.0	4:48	
11.800	4748.0	5: 3	
12.050	4756.0	5:18	
12.300	4764.0	5:33	
12.550	4771.0	5:48	
12.800	4777.0	6: 3	
13.050	4784.0	6:18	
13.300	4790.0	6:33	
13.550	4796.0	6:48	
13.800	4802.0	7: 3	
14.050	4808.0	7:18	
14.300	4813.0	7:33	
14.550	4819.0	7:48	
14.800	4824.0	8: 3	
15.050	4829.0	8:18	
15.300	4834.0	8:33	

PHILLIPS PETROLEUM CO. NORWAY
EKOFISK GAMMA
1/9-6

OFFSHORE NORWAY
21 NOVEMBER 1982
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DST NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (INITIAL BUILD-UP PERIOD)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
15.550	4839.0	8:48	22/12/82
15.800	4843.0	9: 3	
16.050	4847.0	9:18	
16.300	4852.0	9:33	
16.550	4857.0	9:48	
16.800	4860.0	10: 3	
17.050	4863.0	10:18	
17.300	4868.0	10:33	
17.550	4871.0	10:48	
17.800	4876.0	11: 3	
18.050	4878.0	11:18	
18.300	4882.0	11:33	
18.550	4885.0	11:48	
18.800	4888.0	12: 3	
19.050	4891.0	12:18	
19.300	4894.0	12:33	
19.550	4897.0	12:48	
19.800	4900.0	13: 3	
20.050	4903.0	13:18	
20.300	4905.0	13:33	
20.550	4909.0	13:48	
20.800	4911.0	14: 3	
21.050	4914.0	14:18	
21.300	4916.0	14:33	
21.550	4918.0	14:48	
21.800	4922.0	15: 3	
22.050	4924.0	15:18	

END OF WHP READINGS

PHILLIPS PETROLEUM CO. NORWAY
EKOFISK GAMMA
1/9-6

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DST NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (POST-ACID CLEAN-UP FLOW)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
0.000	2870.0	1:34	24/12/82 WELL OPENED FOR CLEAN-UP FLOW
0.017	2858.0	1:35	ON 10/64" ADJ. CHOKE
0.033	2701.0	1:36	INCREASE TO 32/64" ADJ. CHOKE
0.050	2605.0	1:37	
0.067	2560.0	1:38	
0.083	2528.0	1:39	
0.100	2525.0	1:40	
0.117	2561.0	1:41	
0.133	2618.0	1:42	
0.150	2683.0	1:43	GAS TO SURFACE
0.167	2748.0	1:44	
0.183	2819.0	1:45	
0.200	2892.0	1:46	
0.217	2966.0	1:47	
0.233	3039.0	1:48	
0.250	3116.0	1:49	
0.267	3201.0	1:50	
0.283	3289.0	1:51	
0.300	3385.0	1:52	
0.317	3488.0	1:53	
0.333	3604.0	1:54	
0.350	3724.0	1:55	
0.367	3711.0	1:56	
0.383	3620.0	1:57	
0.400	3655.0	1:58	
0.417	3700.0	1:59	
0.433	3746.0	2: 0	
0.450	3772.0	2: 1	
0.467	3791.0	2: 2	
0.483	3803.0	2: 3	
0.500	3807.0	2: 4	
0.517	3810.0	2: 5	
0.533	3816.0	2: 6	INCREASE TO 40/64" ADJ. CHOKE
0.550	3818.0	2: 7	
0.567	3798.0	2: 8	
0.583	3696.0	2: 9	
0.600	3634.0	2:10	
0.617	3593.0	2:11	
0.633	3579.0	2:12	
0.650	3575.0	2:13	
0.667	3573.0	2:14	
0.683	3570.0	2:15	
0.700	3571.0	2:16	
0.717	3596.0	2:17	
0.733	3610.0	2:18	
0.750	3611.0	2:19	
0.767	3629.0	2:20	
0.783	3640.0	2:21	
0.800	3644.0	2:22	
0.817	3644.0	2:23	

PHILLIPS PETROLEUM CO. NORWAY
EKOFISK GAMMA
1/9-6

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DST NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (POST-ACID CLEAN-UP FLOW)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
0.833	3650.0	2:24	24/12/82
0.850	3678.0	2:25	
0.867	3686.0	2:26	
0.883	3698.0	2:27	
0.900	3703.0	2:28	
0.917	3716.0	2:29	
0.933	3722.0	2:30	
1.017	3742.0	2:35	
1.100	3730.0	2:40	
1.183	3713.0	2:45	
1.267	3684.0	2:50	
1.350	3664.0	2:55	
1.417	3650.0	2:59	
1.683	3620.0	3:15	
1.933	3586.0	3:30	
2.183	3550.0	3:45	SWITCH FLOW THROUGH SEPERATOR
2.433	3521.0	4: 0	
2.683	3497.0	4:15	
2.933	3466.0	4:30	
3.183	3446.0	4:45	
3.433	3407.0	5: 0	
3.683	3403.0	5:15	
3.933	3375.0	5:30	
4.183	2691.0	5:45	INCREASE TO 56/64" ADJ. CHOKE
4.433	2731.0	6: 0	
4.683	2745.0	6:15	CHANGE TO 56/64" FIXED CHOKE
4.933	2715.0	6:30	
5.183	2688.0	6:45	
5.433	2663.0	7: 0	
5.683	2640.0	7:15	
5.933	2617.0	7:30	
6.183	2594.0	7:45	
6.433	2574.0	8: 0	
6.683	2555.0	8:15	
6.933	2536.0	8:30	
7.183	3357.0	8:45	DECREASE TO 26/64" FIXED CHOKE
7.433	3622.0	9: 0	
7.683	3661.0	9:15	
7.933	3688.0	9:30	
8.183	3705.0	9:45	
8.433	3714.0	10: 0	
8.683	3725.0	10:15	
8.933	3742.0	10:30	
9.183	3755.0	10:45	
9.433	3759.0	11: 0	
9.683	3771.0	11:15	
9.933	3777.0	11:30	
10.183	3783.0	11:45	
10.433	3789.0	12: 0	
10.683	3788.0	12:15	

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PHILLIPS PETROLEUM CO. NORWAY
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OFFSHORE NORWAY
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DST NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (POST-ACID CLEAN-UP FLOW)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
10.933	3789.0	12:30	24/12/82
11.180	3795.0	12:45	
11.433	3795.0	13: 0	
11.450	3794.0	13: 1	WELL SHUT-IN AT CHOKE

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DST NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (SECOND BUILD-UP PERIOD)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
0.000	3794.0	13: 1	24/12/82 WELL SHUT-IN AT CHOKE
0.017	3845.0	13: 2	
0.033	3896.0	13: 3	
0.050	3925.0	13: 4	
0.067	3941.0	13: 5	
0.083	3952.0	13: 6	
0.100	3959.0	13: 7	
0.117	3966.0	13: 8	
0.133	3970.0	13: 9	
0.150	3973.0	13:10	
0.167	3976.0	13:11	
0.183	3979.0	13:12	
0.200	3982.0	13:13	
0.217	3986.0	13:14	
0.233	3990.0	13:15	
0.250	3989.0	13:16	
0.267	3994.0	13:17	
0.283	3992.0	13:18	
0.300	3992.0	13:19	
0.317	3995.0	13:20	
0.333	3997.0	13:21	
0.350	3999.0	13:22	
0.367	3999.0	13:23	
0.383	4004.0	13:24	CLOSE MASTER VALVE FOR WIRELINE WORK
0.400	4004.0	13:25	
5.483	4360.0	18:30	
5.900	4377.0	19: 0	
6.483	4393.0	19:30	
8.383	4446.0	21:24	
8.483	4448.0	21:30	
8.733	4458.0	21:45	
8.983	4469.0	22: 0	
9.233	4478.0	22:15	
10.817	4467.0	23:50	
10.983	4468.0	0: 0	25/12/82
11.233	4475.0	0:15	
11.483	4483.0	0:30	
11.733	4492.0	0:45	
11.983	4500.0	1: 0	
12.233	4501.0	1:15	
12.483	4498.0	1:30	
12.733	4504.0	1:45	
12.983	4503.0	2: 0	
13.233	4505.0	2:15	
13.483	4508.0	2:30	
13.733	4513.0	2:45	
13.983	4517.0	3: 0	
14.067	4519.0	3: 5	
15.150	4521.0	4:10	
15.233	4520.0	4:15	

PHILLIPS PETROLEUM CO. NORWAY
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DST NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (SECOND BUILD-UP PERIOD)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
15.480	4522.0	4:30	25/12/82
15.730	4529.0	4:45	
15.980	4535.0	5: 0	
16.230	4543.0	5:15	
16.480	4548.0	5:30	
16.730	4547.0	5:45	
16.980	4546.0	6: 0	
17.230	4541.0	6:15	
17.480	4538.0	6:30	
17.730	4536.0	6:45	
17.980	4541.0	7: 0	
18.230	4545.0	7:15	
18.480	4548.0	7:30	
18.730	4554.0	7:45	
18.980	4557.0	8: 0	
19.230	4562.0	8:15	
19.480	4566.0	8:30	
19.730	4570.0	8:45	
19.980	4577.0	9: 0	
20.230	4578.0	9:15	
20.480	4582.0	9:30	
20.730	4586.0	9:45	
20.980	4590.0	10: 0	
21.230	4595.0	10:15	
21.480	4597.0	10:25	
24.850	4586.0	13:52	
24.980	4582.0	14: 0	

(ATTEMPT TO FLOW AT 14:00
BUT APR-N VALVE CLOSED)

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DS1 NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (DIESEL INJECTION PERIOD)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
0.000	1340.0	16:30	25/12/82 ATTEMPT TO OPEN APR-N BY PRESSURING UP ABOVE VALVE
0.083	1358.0	16:35	
0.167	1402.0	16:40	
0.250	1488.0	16:45	
0.333	1615.0	16:50	
0.417	1811.0	16:55	
0.500	2138.0	17: 0	
0.583	2148.0	17: 5	
0.667	2163.0	17:10	
0.750	2181.0	17:15	
0.833	2199.0	17:20	
0.917	2426.0	17:25	
1.000	2981.0	17:30	
1.083	3678.0	17:35	
1.167	3411.0	17:40	
1.250	3616.0	17:45	
1.333	3618.0	17:50	
1.417	3697.0	17:55	
1.500	3584.0	18: 0	
1.583	3584.0	18: 5	
1.667	3585.0	18:10	
1.750	3585.0	18:15	
1.833	3587.0	18:20	WELL OPENED TO FLOW

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OFFSHORE NORWAY
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DST NO. 4, WELLHEAD PRESSURES, UPSTREAM CHOKE. (MULTIRATE FLOW PERIOD)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
0.000	3587.0	45.2	18:20	25/12/82 WELL OPENED ON 16/64" CHOKE
0.017	3513.0	50.7	18:21	INCREASE TO 26/64" ADJ. CHOKE
0.033	3332.0	51.0	18:22	
0.050	3242.0	53.5	18:23	CHANGE TO 26/64" FIXED CHOKE
0.067	3263.0	56.0	18:24	
0.083	3314.0	58.5	18:25	
0.100	3376.0	60.8	18:26	
0.117	3431.0	63.0	18:27	
0.133	3487.0	65.0	18:28	
0.150	3540.0	64.4	18:29	
0.167	3638.0	64.1	18:30	
0.183	3674.0	64.4	18:31	GAS TO SURFACE
0.200	3702.0	65.2	18:32	
0.217	3726.0	66.0	18:33	
0.233	3745.0	66.6	18:34	
0.250	3757.0	67.5	18:35	
0.267	3802.0	69.8	18:37	
0.283	3826.0	70.7	18:38	
0.317	3848.0	71.6	18:39	
0.333	3866.0	72.5	18:40	
0.350	3887.0	73.6	18:41	
0.367	3902.0	74.5	18:42	
0.383	3929.0	75.7	18:43	
0.400	3939.0	77.0	18:44	
0.417	3957.0	78.0	18:45	
0.433	3981.0	78.8	18:46	
0.450	3994.0	79.2	18:47	
0.467	4005.0	80.1	18:48	
0.483	4008.0	81.3	18:49	
0.500	4020.0	83.0	18:50	
0.517	4058.0	83.9	18:51	
0.533	4090.0	85.1	18:52	
0.550	4111.0	86.1	18:53	
0.567	4135.0	86.4	18:54	
0.583	4131.0	85.9	18:55	
0.600	4124.0	86.6	18:56	
0.617	4120.0	87.0	18:57	
0.633	4115.0	89.6	18:58	
0.650	4143.0	91.4	18:59	
0.667	4144.0	91.4	19: 0	
0.750	4124.0	90.7	19: 5	SWITCH FLOW THROUGH SEPERATOR
0.833	4110.0	92.3	19:10	
0.917	4103.0	93.8	19:15	
1.000	4099.0	95.4	19:20	
1.083	4096.0	97.2	19:25	
1.167	4087.0	98.7	19:30	
1.250	4083.0	100.4	19:35	
1.333	4081.0	102.1	19:40	
1.417	4080.0	103.7	19:45	
1.500	4078.0	105.0	19:50	

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DET NO. 4. WELHEAD PRESSURES, UPSTREAM CHOKE. (MULTIRATE FLOW PERIOD)

DELTA TIME HOURS	GUAGE PRESSURE (PSI)	TEMP. DEG F	TIME	
1.553	4075.0	100.3	19:55	25/12/82
1.727	4070.0	95.2	20: 0	
1.750	4068.0	105.7	20: 5	
1.873	4062.0	107.8	20:10	
1.917	4059.0	109.1	20:15	
2.167	4054.0	113.7	20:30	
2.317	4046.0	115.7	20:45	
2.367	4039.0	118.6	21: 0	
2.917	4033.0	121.2	21:15	
3.167	4025.0	122.7	21:30	
3.417	4026.0	123.8	21:45	
3.667	4010.0	125.5	22: 0	
3.917	4001.0	126.2	22:15	
4.167	3994.0	127.7	22:30	
4.417	3987.0	128.9	22:45	
4.667	3980.0	129.7	23: 0	
4.917	3973.0	130.4	23:15	
5.167	3966.0	131.2	23:30	
5.417	3959.0	131.6	23:45	
5.667	3953.0	132.1	0: 0	26/12/82
5.917	3947.0	132.9	0:15	
6.167	3940.0	133.4	0:30	
6.417	3933.0	134.0	0:45	
6.667	3926.0	134.4	1: 0	
6.917	3920.0	135.4	1:15	
7.167	3914.0	135.7	1:30	
7.417	3908.0	136.3	1:45	
7.667	3901.0	136.5	2: 0	
7.917	3896.0	137.2	2:15	
8.167	3891.0	137.7	2:30	
8.417	3886.0	138.1	2:45	
8.667	3880.0	138.4	3: 0	
8.917	3875.0	139.0	3:15	
9.167	3869.0	138.9	3:30	
9.417	3861.0	148.9	3:45	
9.667	3876.0	158.9	4: 1	
9.700	3898.0	159.3	4: 2	
9.717	3412.0	159.6	4: 3	
9.733	2426.0	159.8	4: 4	
9.750	2436.0	160.1	4: 5	
9.767	2445.0	160.5	4: 6	
9.783	2451.0	160.7	4: 7	
9.800	2457.0	161.0	4: 8	
9.817	2462.0	161.3	4: 9	
9.833	2463.0	161.5	4:10	
9.850	2467.0	161.9	4:11	
9.867	2470.0	162.0	4:12	
9.883	2471.0	162.0	4:13	
9.900	2471.0	162.4	4:14	
9.917	2472.0	162.6	4:15	

INCREASE TO 56/64" ADJ. CHOKE
DECREASE TO 48/64" FIXED CHOK

PHILLIPS PETROLEUM CO. NORWAY
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OFFSHORE NORWAY
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DS: NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (MULTIRATE FLOW PERIOD)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
9.823	2472.0	162.7	4:16	26/12/82
9.850	2472.0	163.0	4:17	
9.867	2471.0	163.2	4:18	
9.883	2472.0	163.4	4:19	
10.000	2472.0	163.5	4:20	
10.017	2471.0	163.6	4:21	
10.033	2470.0	164.0	4:22	
10.070	2470.0	164.2	4:23	
10.087	2469.0	164.3	4:24	
10.093	2468.0	164.6	4:25	
10.109	2466.0	164.7	4:26	
10.117	2467.0	164.9	4:27	
10.123	2467.0	165.0	4:28	
10.150	2466.0	165.1	4:29	
10.157	2465.0	165.1	4:30	
10.185	2464.0	165.1	4:31	
10.200	2465.0	165.3	4:32	
10.217	2462.0	165.4	4:33	
10.223	2463.0	165.5	4:34	
10.250	2460.0	165.5	4:35	
10.267	2460.0	165.7	4:36	
10.283	2459.0	165.7	4:37	
10.300	2458.0	165.9	4:38	
10.317	2458.0	165.9	4:39	
10.333	2456.0	165.9	4:40	
10.350	2457.0	166.1	4:41	
10.367	2455.0	166.1	4:42	
10.383	2455.0	166.0	4:43	
10.400	2453.0	166.5	4:44	
10.417	2453.0	166.5	4:45	
10.433	2451.0	166.7	4:46	
10.450	2450.0	167.1	4:47	
10.467	2449.0	166.9	4:48	
10.483	2446.0	166.9	4:49	
10.500	2448.0	167.2	4:50	
10.517	2448.0	167.3	4:51	
10.533	2446.0	167.5	4:52	
10.550	2448.0	167.1	4:53	
10.567	2443.0	167.2	4:54	
10.583	2444.0	167.4	4:55	
10.600	2443.0	167.7	4:56	
10.617	2442.0	167.6	4:57	
10.633	2441.0	167.2	4:58	
10.650	2440.0	167.1	4:59	
10.667	2439.0	167.1	5: 0	
10.683	2425.0	168.0	5:15	
11.167	2413.0	168.2	5:30	
11.417	2390.0	168.0	5:45	
11.667	2390.0	168.2	6: 0	
11.917	2379.0	168.4	6:15	

PHILLIPS PETROLEUM CO. NORWAY
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OFFSHORE NORWAY
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DEF NO. 4. WELLHEAD PRESSURES, UPSTREAM CHOKE. (MULTIRATE FLOW PERIOD)

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
12.167	2369.0	169.0	6:30	26/12/82
12.417	2359.0	168.5	6:45	
12.667	2349.0	169.2	7: 0	
12.917	2339.0	168.1	7:15	
13.167	2330.0	168.3	7:30	
13.417	2321.0	169.0	7:45	
13.667	2313.0	168.2	8: 0	
13.917	2305.0	169.0	8:15	
14.167	2296.0	169.7	8:30	
14.417	2280.0	168.5	8:45	
14.667	2274.0	168.8	9: 0	
14.917	2266.0	168.6	9:15	
15.167	2256.0	169.0	9:30	
15.417	2249.0	167.9	9:45	
15.667	2241.0	167.8	10: 0	
15.917	2234.0	167.4	10:15	
16.167	2225.0	166.9	10:30	
16.417	2219.0	167.2	10:45	
16.667	2213.0	167.5	11: 0	
16.917	2207.0	168.2	11:15	
17.167	2202.0	168.1	11:30	
17.260	2160.0	168.3	11:32	END OF FLOW PERIOD

PHILLIPS PETROLEUM CO. NORWAY
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OFFSHORE NORWAY
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DST NO. 4. WELHEAD PRESSURES, UPSTREAM CHOKE. (FINAL BUILD-UP PERIOD)

DELTA TIME HOURS	GUAGE PRESSURE (PSI)	TIME
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0.000	2100.0	11:32	26/12/82 WELL SHUT-IN FOR BUILD-UP
0.017	2290.0	11:33	
0.031	2592.0	11:34	
0.050	2769.0	11:35	
0.067	2980.0	11:36	
0.083	3165.0	11:37	
0.100	3320.0	11:38	
0.117	3440.0	11:39	
0.133	3522.0	11:40	
0.150	3569.0	11:41	
0.167	3593.0	11:42	
0.183	3603.0	11:43	
0.200	3611.0	11:44	
0.217	3617.0	11:45	
0.231	3621.0	11:46	
0.250	3621.0	11:47	
0.267	3632.0	11:48	
0.283	3637.0	11:49	
1.000	3413.0	17:20	CLOSE LUBRICATOR VALVE RIH WITH GAUGES
1.083	3400.0	13:25	
1.167	3381.0	13:30	
2.050	3351.0	13:35	
2.133	3335.0	13:40	
2.217	3321.0	13:45	
2.300	3305.0	13:50	
2.383	3289.0	13:55	
2.467	3276.0	14: 0	
2.550	3261.0	14: 5	
2.633	3246.0	14:10	
2.717	3240.0	14:15	
2.800	3236.0	14:20	
2.883	3231.0	14:25	
2.967	3221.0	14:30	
3.050	3211.0	14:35	
3.133	3205.0	14:40	
3.217	3201.0	14:45	
3.300	3205.0	14:50	
3.383	3200.0	14:55	
3.467	3200.0	15: 0	
3.550	3200.0	15: 5	
3.633	3200.0	15:15	
3.717	3208.0	15:30	
4.000	3207.0	15:45	
4.083	3208.0	16: 0	
4.167	3211.0	16: 5	
4.250	3217.0	16:15	
4.333	3227.0	16:30	
4.417	3237.0	16:45	
4.500	3248.0	17: 0	
4.583	3257.0	17: 5	
4.667	3267.0	18:15	
4.750	3270.0	17:30	

PHILLIP PETROLEUM CO. NORWAY
EKOFISK DAMPA
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DATE NO. 11. WELL HEAD PRESSURES, UPSTREAM CHOKE. (FINAL BUILD-UP PERIOD)

DELTA TIME HOURS	GAUGE PRESSURE PSIG	TIME	
00:00	2177.0	17:45	26/12/82
00:05	2213.0	18: 0	
00:10	2250.0	18:15	
00:15	2287.0	18:30	
00:20	2324.0	18:45	
00:25	2361.0	19: 0	
00:30	2398.0	19:15	
00:35	2435.0	19:30	

(APR-N VALVE CLOSED
TEST ABORTED)

PHILLIPS PETROLEUM CO. NORWAY
EKOFISK OILFIELD
17900

OFFSHORE NORWAY
21 NOVEMBER 1982
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DS: 02 001 0000 PRESSURES, DOWNSTREAM CHOKE. (INITIAL CLEAN-UP FLOW)

DELTA TIME
HOURS PRESSURE
TIME

DELTA TIME HOURS	PRESSURE PSI	TIME	
00:00	5.0	10:01	21/12/82 WELL OPENED FOR CLEAN-UP FLOW
00:07	5.0	10:02	ON 08/64" ADJ. CHOKE
00:07	5.0	10:21	INCREASE TO 12/64" ADJ. CHOKE
00:10		10:24	INCREASE TO 18/64" ADJ. CHOKE
00:17		10:25	INCREASE TO 24/64" ADJ. CHOKE
00:30	10.0	10:26	
00:39	10.0	10:27	INCREASE TO 32/64" ADJ. CHOKE
00:47	10.0	10:28	
00:57	10.0	10:29	
01:04	10.0	10:29	INCREASE TO 48/64" ADJ. CHOKE
01:08	10.0	10:30	
01:11	10.0	10:31	
01:14	10.0	10:32	
01:16	10.0	10:33	
01:17	10.0	10:34	
01:20	10.0	10:35	
01:22	10.0	10:36	
01:24	10.0	10:37	
01:26	10.0	10:38	
01:28	10.0	10:39	
01:30	10.0	10:40	
01:32	10.0	10:41	
01:34	10.0	10:42	
01:37	10.0	10:43	
01:40	10.0	10:44	
01:43	10.0	10:44	WELL SHUT-IN AT CHOKE
01:44	30.0	12:16	FLOWING ON 32/64" ADJ. CHOKE
01:51	30.0	12:17	INCREASE TO 44/64" ADJ. CHOKE
01:57	30.0	12:18	
02:02	30.0	12:19	
02:04	30.0	12:20	
02:06	30.0	12:21	
02:07	30.0	12:21	
02:07	30.0	12:22	
02:07	30.0	12:23	
02:07	30.0	12:24	
02:07	30.0	12:25	
02:07	30.0	12:26	
02:07	30.0	12:27	
02:07	30.0	12:28	
02:07	30.0	12:29	
02:07	30.0	12:30	
02:07	30.0	12:31	
02:07	30.0	12:32	
02:07	30.0	12:33	
02:07	30.0	12:34	
02:07	30.0	12:35	
02:07	30.0	12:36	
02:07	30.0	12:37	
02:07	30.0	12:38	
02:07	30.0	12:39	
02:07	30.0	12:40	
02:07	30.0	12:41	
02:07	30.0	12:42	
02:07	30.0	12:43	
02:07	30.0	12:44	
02:07	30.0	12:45	

WELL SHUT-IN AT CHOKE
FLOWING ON 32/64" ADJ. CHOKE
INCREASE TO 44/64" ADJ. CHOKE

GAS TO SURFACE

PHILIP ... NORWAY
EKOFISK ...
179-A

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DS: ... 4. WELL HEAD PRESSURES, DOWNSTREAM CHOKE. (INITIAL CLEAN-UP FLOW)

DELTA	PAGE	TIME
HO	PRESSURE	
NO	(PSIG)	
10:50	10:50	21/12/82
10:55	10:55	
11:00	11:00	
11:05	11:05	
11:10	11:10	
11:15	11:15	
11:20	11:20	
11:25	11:25	
11:30	11:30	
11:35	11:35	
11:40	11:40	
11:45	11:45	
11:50	11:50	
11:55	11:55	
12:00	12:00	
12:05	12:05	
12:10	12:10	
12:15	12:15	
12:20	12:20	
12:25	12:25	
12:30	12:30	
12:35	12:35	
12:40	12:40	
12:45	12:45	
12:50	12:50	
12:55	12:55	
13:00	13:00	
13:05	13:05	
13:10	13:10	
13:15	13:15	
13:20	13:20	
13:25	13:25	
13:30	13:30	
13:35	13:35	
13:40	13:40	
13:45	13:45	
13:50	13:50	
13:55	13:55	
14:00	14:00	
14:05	14:05	
14:10	14:10	
14:15	14:15	
14:20	14:20	
14:25	14:25	
14:30	14:30	
14:35	14:35	
14:40	14:40	
14:45	14:45	
14:50	14:50	
14:55	14:55	
15:00	15:00	
15:05	15:05	
15:10	15:10	
15:15	15:15	
15:20	15:20	
15:25	15:25	
15:30	15:30	
15:35	15:35	
15:40	15:40	
15:45	15:45	
15:50	15:50	
15:55	15:55	
16:00	16:00	
16:05	16:05	
16:10	16:10	
16:15	16:15	
16:20	16:20	
16:25	16:25	
16:30	16:30	
16:35	16:35	
16:40	16:40	
16:45	16:45	
16:50	16:50	
16:55	16:55	

SWITCH FLOW THROUGH SEPERATOR

PHILLIPS OIL FIELD, CO. NORWAY
EKOFISK OILFIELD
1/9-7

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DS WELLHEAD PRESSURES, DOWNSTREAM CHOKE. (INITIAL CLEAN-UP FLOW)

DELTA	TIME
HOUSE	TEMPERATURE
	(PSI)

17:00	17:00
17:05	17:05
17:10	17:10
17:15	17:15

21/12/82 SWITCH FLOW TO TANK

WELL SHUT-IN AT CHOKE AT 17:17

PHILIP ARABIAN FIELD NO. NORWAY
EKOFISK FIELD
1/9-77

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

OST 11/14 WELLHEAD PRESSURES, DOWNSTREAM CHOKE. (POST-ACID CLEAN-UP FLOW)

DELTA
HOURS
MIN
PSIA
TIME

24/12/82 WELL OPENED FOR CLEAN-UP FLOW
ON 10/64" ADJ. CHOKE
INCREASE TO 32/64" ADJ. CHOKE

GAS TO SURFACE

INCREASE TO 40/64" ADJ. CHOKE

DELTA HOURS	MIN	PSIA	TIME
11:30	00	1000	11:30
11:31	00	1000	11:31
11:32	00	1000	11:32
11:33	00	1000	11:33
11:34	00	1000	11:34
11:35	00	1000	11:35
11:36	00	1000	11:36
11:37	00	1000	11:37
11:38	00	1000	11:38
11:39	00	1000	11:39
11:40	00	1000	11:40
11:41	00	1000	11:41
11:42	00	1000	11:42
11:43	00	1000	11:43
11:44	00	1000	11:44
11:45	00	1000	11:45
11:46	00	1000	11:46
11:47	00	1000	11:47
11:48	00	1000	11:48
11:49	00	1000	11:49
11:50	00	1000	11:50
11:51	00	1000	11:51
11:52	00	1000	11:52
11:53	00	1000	11:53
11:54	00	1000	11:54
11:55	00	1000	11:55
11:56	00	1000	11:56
11:57	00	1000	11:57
11:58	00	1000	11:58
11:59	00	1000	11:59
12:00	00	1000	12:00
12:01	00	1000	12:01
12:02	00	1000	12:02
12:03	00	1000	12:03
12:04	00	1000	12:04
12:05	00	1000	12:05
12:06	00	1000	12:06
12:07	00	1000	12:07
12:08	00	1000	12:08
12:09	00	1000	12:09
12:10	00	1000	12:10
12:11	00	1000	12:11
12:12	00	1000	12:12
12:13	00	1000	12:13
12:14	00	1000	12:14
12:15	00	1000	12:15
12:16	00	1000	12:16
12:17	00	1000	12:17
12:18	00	1000	12:18
12:19	00	1000	12:19
12:20	00	1000	12:20
12:21	00	1000	12:21
12:22	00	1000	12:22
12:23	00	1000	12:23

PHILLIP ARGO OILFIELD CO. NORWAY
EKOFISK OILFIELD
1/7-6

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DEPT. 10000 MAGNETIC RECORDING PRESSURES, DOWNSTREAM CHOKE. (POST-ACID CLEAN-UP FLOW)

DELTA	INTEGRAL	TIME
HOURS	INTEGRAL	
	(PSI)	
00:00	00000	20:24 24/12/82
00:05	00000	20:25
00:10	00000	20:26
00:15	00000	20:27
00:20	00000	20:28
00:25	00000	20:29
00:30	00000	20:30
00:35	00000	20:35
00:40	00000	20:40
00:45	00000	20:45
00:50	00000	20:50
00:55	00000	20:55
01:00	00000	20:59
01:05	00000	30:15
01:10	00000	30:30
01:15	00000	30:45
01:20	00000	40:00
01:25	00000	40:15
01:30	00000	40:30
01:35	00000	40:45
01:40	00000	50:00
01:45	00000	50:15
01:50	00000	50:30
01:55	00000	50:45
02:00	00000	60:00
02:05	00000	60:15
02:10	00000	60:30
02:15	00000	60:45
02:20	00000	70:00
02:25	00000	70:15
02:30	00000	70:30
02:35	00000	70:45
02:40	00000	80:00
02:45	00000	80:15
02:50	00000	80:30
02:55	00000	80:45
03:00	00000	90:00
03:05	00000	90:15
03:10	00000	90:30
03:15	00000	90:45
03:20	00000	100:00
03:25	00000	100:15
03:30	00000	100:30
03:35	00000	100:45
03:40	00000	110:00
03:45	00000	110:15
03:50	00000	110:30
03:55	00000	110:45
04:00	00000	120:00
04:05	00000	120:15
04:10	00000	120:30
04:15	00000	120:45

SWITCH FLOW THROUGH SEPERATOR

INCREASE TO 56/64" ADJ. CHOKE

CHANGE TO 56/64" FIXED CHOKE

DECREASE TO 26/64" FIXED CHOKE

PHILLIPS 66 OFFSHORE IN THE NORWAY
ERUP 1359C-NOR
1/9-6

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DISTANCE TO CHOKER HEAD PRESSURES, DOWNSTREAM CHOKE. (POST-ACID CLEAN-UP FLOW)

DEPTH (M)	CHOKER HEAD PRESSURE (PSI)	TIME
127.4	1100	12:37 24/12/82
127.4	1100	12:45
127.4	1100	13: 0
127.4	1100	13: 1

WELL SHUT-IN AT CHOKE

PHILLIPS PETROLEUM CO. NORWAY
EKOFISK GAMMA
179-A

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

CS 100 IN WELLSHAL PRESSURES, DOWNSTREAM CHOKE. (MULTIRATE FLOW PERIOD)

DELTA INCH
HOURS RANGE
IN PSIG TIME

18:00	250.0	18:20
18:01	250.0	18:21
18:02	250.0	18:22
18:03	250.0	18:23
18:04	271.0	18:24
18:05	276.0	18:25
18:06	277.0	18:26
18:07	280.0	18:27
18:08	280.0	18:28
18:09	280.0	18:29
18:10	280.0	18:30
18:11	280.0	18:31
18:12	280.0	18:32
18:13	280.0	18:33
18:14	280.0	18:34
18:15	280.0	18:35
18:16	280.0	18:37
18:17	287.0	18:38
18:18	288.0	18:39
18:19	288.0	18:40
18:20	288.0	18:41
18:21	288.0	18:42
18:22	288.0	18:43
18:23	288.0	18:44
18:24	288.0	18:45
18:25	288.0	18:46
18:26	288.0	18:47
18:27	288.0	18:48
18:28	288.0	18:49
18:29	288.0	18:50
18:30	288.0	18:51
18:31	288.0	18:51
18:32	288.0	18:52
18:33	288.0	18:54
18:34	288.0	18:55
18:35	288.0	18:56
18:36	288.0	18:57
18:37	288.0	18:58
18:38	288.0	18:59
18:39	288.0	19:00
18:40	288.0	19:05
18:41	288.0	19:10
18:42	288.0	19:15
18:43	288.0	19:20
18:44	288.0	19:25
18:45	288.0	19:30
18:46	288.0	19:35
18:47	288.0	19:40
18:48	288.0	19:45
18:49	288.0	19:50

25/12/82 WELL OPENED ON 16/64" CHOKE
INCREASE TO 26/64" ADJ. CHOKE
CHANGE TO 26/64" FIXED CHOKE

GAS TO SURFACE

SWITCH FLOW THROUGH SEPERATOR

PHILLIP-PROFESUN 001 NORWAY
EKOFISK-01-0004
1/9-6

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DOWNSTREAM WELLHEAD PRESSURES, DOWNSTREAM CHOKE. (MULTIRATE FLOW PERIOD)

DELTA TIME HOURS	WELLHEAD PRESSURE (PSI)	TIME	
0:00	800.0	19:55	25/12/82
0:05	800.0	20:00	
0:10	800.0	20:05	
0:15	1004.0	20:10	
0:20	892.0	20:15	
0:25	780.0	20:20	
0:30	720.0	20:25	
0:35	687.0	21:00	
0:40	680.0	21:15	
0:45	678.0	21:30	
0:50	680.0	21:45	
0:55	680.0	22:00	
1:00	680.0	22:15	
1:05	675.0	22:30	
1:10	680.0	22:45	
1:15	680.0	23:00	
1:20	680.0	23:15	
1:25	680.0	23:30	
1:30	680.0	23:45	
0:00	792.0	0:00	26/12/82
0:05	790.0	0:15	
0:10	785.0	0:30	
0:15	780.0	0:45	
0:20	780.0	1:00	
0:25	780.0	1:15	
0:30	770.0	1:30	
0:35	788.0	1:45	
0:40	988.0	2:00	
0:45	988.0	2:15	
0:50	1080.0	2:30	
0:55	987.0	2:45	
1:00	785.0	3:00	
1:05	785.0	3:15	
1:10	784.0	3:30	
1:15	1248.0	3:45	
1:20	1148.0	4:00	
1:25	1148.0	4:05	
1:30	1148.0	4:10	
1:35	1148.0	4:15	
1:40	1138.0	4:20	
1:45	1134.0	4:25	
1:50	1133.0	4:30	
1:55	1136.0	4:35	
2:00	1136.0	4:40	
2:05	1136.0	4:45	
2:10	1137.0	4:50	
2:15	1137.0	4:55	
2:20	1137.0	5:00	
2:25	1132.0	5:05	
2:30	1131.0	5:10	
2:35	1131.0	5:15	

INCREASE TO 56/64" ADJ. CHOKE
DECREASE TO 48/64" FIXED CHOKE

PHILLIPS PETROLEUM CO. NORWAY
EKOFISK BARNB
1/9-6

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

DST NO. 4. WELLHEAD PRESSURES; DOWNSTREAM CHOKE. (MULTIRATE FLOW PERIOD)

DELTA TIME HOURS	TEMPERATURE (PSI)	TIME	
10.000	11602.0	4:16	26/12/82
10.005	11603.0	4:17	
10.010	11604.0	4:18	
10.015	11605.0	4:19	
10.020	11606.0	4:20	
10.025	11607.0	4:21	
10.030	11608.0	4:22	
10.035	11609.0	4:23	
10.040	11610.0	4:24	
10.045	11611.0	4:25	
10.050	11612.0	4:26	
10.055	11613.0	4:27	
10.060	11614.0	4:28	
10.065	11615.0	4:29	
10.070	11616.0	4:30	
10.075	11617.0	4:31	
10.080	11618.0	4:32	
10.085	11619.0	4:33	
10.090	11620.0	4:34	
10.095	11621.0	4:35	
10.100	11622.0	4:36	
10.105	11623.0	4:37	
10.110	11624.0	4:38	
10.115	11625.0	4:39	
10.120	11626.0	4:40	
10.125	11627.0	4:41	
10.130	11628.0	4:42	
10.135	11629.0	4:43	
10.140	11630.0	4:44	
10.145	11631.0	4:45	
10.150	11632.0	4:46	
10.155	11633.0	4:47	
10.160	11634.0	4:48	
10.165	11635.0	4:49	
10.170	11636.0	4:50	
10.175	11637.0	4:51	
10.180	11638.0	4:52	
10.185	11639.0	4:53	
10.190	11640.0	4:54	
10.195	11641.0	4:55	
10.200	11642.0	4:56	
10.205	11643.0	4:57	
10.210	11644.0	4:58	
10.215	11645.0	4:59	
10.220	11646.0	5:00	
10.225	11647.0	5:01	
10.230	11648.0	5:02	
10.235	11649.0	5:03	
10.240	11650.0	5:04	
10.245	11651.0	5:05	
10.250	11652.0	5:06	
10.255	11653.0	5:07	
10.260	11654.0	5:08	
10.265	11655.0	5:09	
10.270	11656.0	5:10	
10.275	11657.0	5:11	
10.280	11658.0	5:12	
10.285	11659.0	5:13	
10.290	11660.0	5:14	
10.295	11661.0	5:15	

PHILLIPS PETROLEUM CO. NORWAY
EKOFISK GOMMA
1/9-6

OFFSHORE NORWAY
21 NOVEMBER 1982
MRPG-1359C-NOR

WELLHEAD PRESSURES, DOWNSTREAM CHOKE. (MULTIRATE FLOW PERIOD)

DELTA	WELL	WELLHEAD PRESSURE (PSIG)	TIME
1000	1000	11000	6:30 26/12/82
1000	1000	11000	6:45
1000	1000	11000	7: 0
1000	1000	11000	7:15
1000	1000	11000	7:30
1000	1000	11000	7:45
1000	1000	11000	8: 0
1000	1000	11000	8:15
1000	1000	11000	8:30
1000	1000	11000	8:45
1000	1000	11000	9: 0
1000	1000	11000	9:15
1000	1000	11000	9:30
1000	1000	11000	9:45
1000	1000	11000	10: 0
1000	1000	11000	10:15
1000	1000	11000	10:30
1000	1000	11000	10:45
1000	1000	11000	11: 0
1000	1000	11000	11:15
1000	1000	11000	11:30
1000	1000	11000	11:45

END OF FLOW PERIOD