2.0 TESTING OPERATIONS AND RESULTS (DST NO. 2 DATA TO PL 091 ONLY)

PRODUCTION TESTING, DST´S

Two producton tests were performed in well 6406/3-3, both in the upper Tomma I formation.

DST no	Perf.interval m RKB	Formation
1	4003.0-4012.0	Tomma I
2	3940.0-3950.0	Tomma I

Test intervals are shown on the Well Data Summary in chapter 1. Discription of test operations and summary of flow data are enclosed.

SEQUENCE OF EVENTS DST#1 AND DST#2 6406/3-3, DYVI DELTA

DST#1, Tomma I 4003-4012 mRKB

YYmmdd	hrs	Operations:
861007	0628	Set Baker F1 packer at 3925.50 mRKB
	1200	Started to run in hole with teststring.
861008		Continue to run in hole
861009	1710	Landed fluted hanger
	1916	Pressure up tubing to 65 bars
	1923	Opened PCT valve
	1938	Pressured up tubing to 430 bars and bled off to activate firing guns.
	1955	Well perforated, 4003-4012 mRKB
	2017	Open well for first flow on 16/64" adj. choke. Flowing to gauge tank.
	2029	Increase adj. choke to 32/64"
	2151	Well shut in at choke manifold for first buildup. Totally 6.2 sm^3 cushion produced.
861010	0015	Opened well for main flow on 16/64" adj. choke. Flowing to gauge tank.
	0017	Changed to 32/64" adj. choke.
	0018	Changed to 64/64" adj. choke.
	0305	Mud to surface.
	0330	Choke plugged by viscous mud
	0350	Plug removed. Continue flowing to tank.
	0530	Water to surface. Total production of cuchion and mud 16 sm^3.
	0835	Switched to 64/64" fixed choke.
	2045	Started taking water samples.
	2130	Well shutin at choke manifold for final buildup. Total prodcton of formation fluid 39 sm^3.

861011	0000	Continued buildup.
	2400	End final buildup. Close PCT valve.
861012	0006	Opened kill valve.
	0019	Opened MORV.
	0026	Started reversing out string volume.
	0040	Started water sampling.
	0102	Sampling terminated.
	0119	Closed MORV.
	0124	Started bullheading into formation.

END DST#1

Flow data summary, 6406/3-3, DST#1

Perforated interval: 4003-4012 mRKB, Tomma I formation.

Discription		First flow	Main flow
Production time		01:34 hrs	21:15 hrs
Flow rate		90 sm^3/D	35 sm^3/D
Fluid		water	water
Well head pressure		2200 kpa	130 kpa
B.H. flowing pressure	1)	39300 kpa	39550 kpa
Bottom hole temperature	2)	135 deg C	136 deg C
Buildup time		02:25 hrs	25:30 hrs
B.H. buildup pressure	1)	40950 kpa	40960 kpa

1) Last recorded flowing /buildup pressure at midle of perforated interval.
2) Last recorded temperature reading at 3889.50 mRKB.

DST#1, formation water properties:

Density :	1.020 g/cc
Chloride, Cl- :	29800 ppm
PH at 20 deg C :	6.2

Flow data summary, 6406/3-3, DST#2.

Perforated interval : 3940-3950 mRKB, Tomma I formation

Discription :		First flow
Production time		02:13 hrs
Flow rate		0
Fluid		-
Well head pressure		0
B.H. flowing pressure	1)	33960 kpa
Bottom hole temperature	2)	124 deg C
Buildup time		00:30 hrs
B.H. buildup pressure	1)	34000 kpa

1) Last recorded flowing /buildup pressure at midle of perforated interval.
2) Last recorded temperature reading at 3819.0 m RKB.

Total production of fluid was 110 liters including temperatur expantion and depressurizing of tubing fluid. Tight formation.

DST#2 , Tomma I 3940-3950 mRKB

YYmmdd	hrs	Operations:
861015	2050	Run in hole with Baker F1 packer.
	2210	Packer stuck at 3855 mRKB.
	2245	Packer sat at 3955 mRKB.
861016	0030	Started to run in hole with teststring.
	0930	Negative pressure test of bottom hole assembley. Pull out of hole.
	1600	Continue to run in hole with teststring
	1925	Prepared to hang off teststring. Waiting on weather.
861017	0803	Continue to run in hole with string.
	1400	Started space out of landing string.
861018	0141	Pressure up annulus to open PCT valve.
	0200	Pressured up tubing to 430 bars and bled off to activate firing guns.
	0215	Well perforated, 3939-3949 mRKB. Initial buildup.
	0242	Open well for first flow on 20/64" adj. choke. Flow to tank.
	0400	Closed choke manifold and continue to flow through bubble hose.
	0455	Closed well in at bubblehose.
	0516	Closed PCT valve.
	0525	Attemed to open MORV circulating valve. No success.
	0550	Sheared SSARV. Started to reverse out tubing content of diesel cushion.

END DST#2

STATOIL WELL NO.6406/3-3

MATERIAL COST AND CONSUMPTION ANALYSIS RIGG: DYVI DELTA

PRODUCT	UNIT SIZE	UNIT PRICE $	36" SECTION	COST $	26" SECTION	COST $	17.5" SECTION	COST $	12.25" SECTION	COST $	8.5" SECTION	COST $	TEST P & A	COST $	TOTAL USED	TOTAL COST
BARITE	M.T.	86.00		.00	263	22618.00	535	46010.00	1137	97782.00	66	5676.00	216	18576.00	2217	190662.00
BENTONITE	M.T.	219.00	14	3066.00	33	7227.00	5	1095.00	7	1533.00	24	5256.00	10	2190.00	93	20367.00
CAUSTIC SODA	25 KG	11.50	11	126.50	157	1805.50	31	356.50	416	4784.00	16	184.00	1	11.50	632	7268.00
BICARBONATE	50 KG	14.40		.00		.00	2	28.80	9	129.60	80	1152.00	43	619.20	134	1929.60
SODA ASH	30 KG	7.20	6	43.20	2	14.40		.00	1	7.20	32	230.40	2	14.40	43	309.60
GYPSUM	50 KG.	8.50		.00		.00	848	7208.00	458	3893.00		.00		.00	1306	11101.00
BENTONITE	50 KG.	12.00		.00		.00	37	444.00		.00		.00		.00	37	444.00
XC-POLYMER	50 LBS.	288.00		.00		.00	73	21024.00		.00		.00		.00	73	21024.00
DRISPAC REG	50 LBS.	81.50		.00		.00	64	5216.00	21	1711.50	24	1956.00	4	326.00	113	9209.50
DRISPAC SL	50 LBS.	81.50		.00		.00	5	407.50	25	2037.50		.00		.00	30	2445.00
CMC LV	25 KG.	28.50		.00		.00	443	12625.50	530	15105.00		.00		.00	973	27730.50
CMC HV	25 KG.	29.50		.00		.00	117	3451.50	20	590.00		.00	3	88.50	140	4130.00
SPERCELL C	25 KG	12.00		.00		.00		.00	714	8568.00	97	1164.00		.00	811	9732.00
DESCO	25 LBS.	30.60		.00		.00	10	306.00	91	2784.60		.00		.00	101	3090.60
ANCOLIG C	25 KG.	16.00		.00		.00		.00	358	5728.00	281	4496.00		.00	639	10224.00
DETERGENT	200 LIT	297.00		.00		.00		.00	7	2079.00		.00		.00	7	2079.00
AL.STEARATE	25 KG.	53.40		.00		.00		.00		.00		.00		.00	0	.00
ANCO RESIN	25 KG	81.25		.00		.00		.00		.00	289	23481.25		.00	289	23481.25
ZINKCARBONAT	25 KG	54.00		.00		.00	34	1836.00	23	1242.00		.00		.00	57	3078.00
ANCOCIDE	25 KG.	64.80		.00		.00		.00	5	324.00		.00		.00	5	324.00
DEFOAMER	25 LIT.	70.80		.00		.00		.00	6	424.80	5	354.00		.00	11	778.80
TOTALS				3235.70		31664.90		100008.80		148298.40		43595.65		21825.60		348629.05
HOLE DRILLED (METRE)				110		628		1250		1616		480				4084
COST PR. METRE				29.42		50.42		80.01		91.77		90.82				85.36
TOTAL DAYS				1		8		8		29		16		20		82
COST PR. DAY				3235.70		3958.11		12501.10		5113.74		2724.73		1091.28		4251.57
MUD MIXED (CU.M)				368		1433		1224		1108		474		463		5070
COST PR. CU.M				8.79		22.10		81.71		133.84		91.97		47.14		68.76

STATOIL WELL NO.6406/3-3

DRILLING MUD PROPERTIES RECORD

MUD SYSTEM: SPUD MUD/GYP POLYMER/GEL-LIGN. AREA HALTENBANKEN
RIG DYVI DELTA

DAY No.	DATE 1986	DEPTH metre	M.W. sg	F.V. s/qt	600	300	A.V cps	P.V cps	Y.P	GEL 0	GEL 10	pH	API Filt.	CAKE 32nds	HTHP ml.	Chl.ppm *1000	Calc. g/lit.	Pf	%Sol.	%Oil	%Sand	MBT ppb	GYP ppb
1	8/ 4	409	1.05	100			0	0	0			11	N.C										
2	8/ 5	442	1.05	35	28	25	14	3	22			10	N.C						4			12	
3	8/ 6	446	1.12	37	36	32	18	4	28	10	11	9.5	N.C						7		.5	12	
4	8/ 7	757	1.12	42	41	37	20.5	4	33	13	15	9	N.C						7		.25	13.5	
5	8/ 8	1067	1.12	40	53	48	26.5	5	43	12	14	9.8	N.C						7		.25	12	
6	8/ 9	1067	1.12	41	54	49	27	5	44	14	15	9.6	N.C						7		.25	12.5	
7	8/10	1046	1.13	37	46	42	23	4	38	14	15	9.8	N.C						8		Tr.	12.5	
8	8/11	1083	1.3	39	54	49	27	5	44	12	19	9.8	N.C						12		Tr.	12.5	
9	8/12	1083	1.3	42	31	25	15.5	6	19	15	18	10	N.C										
10	8/13	1083	1.12	51	34	24	17	10	14	4	5	9.2	6.1	1		20.5	3.6	.1	6				5.40
11	8/14	1086	1.12	43	29	21	14.5	8	13	3	4	10	6.2	1		20.5	5.04	.1	6		.5		6.90
12	8/15	1203	1.12	42	26	20	13	6	14	3	3	10.1	6.5	1		19.5	4.8	.1	7		.5	2	6.20
13	8/16	1660	1.2	51	43	31	21.5	12	19	4	5	8.9	5.1	1		20	4.8	.05	10		.25	6	6.20
14	8/17	1970	1.25	55	50	35	25	15	20	5	20	8.9	5.3	1		19.5	4.3	.05	13		.25	11	4.20
15	8/18	2320	1.52	62	72	46	36	26	20	7	36	8.9	5.6	1		19.5	4.4	.05	20		1	18	4.10
16	8/19	2320	1.55	66	70	45	35	25	20	8	38	8.6	5.8	1		20	4.24	.05	20		1	20	4.60
17	8/20	2320	1.55	70	71	45	35.5	26	19	8	36	8.5	6	1		20	4.3	.05	21		1	21	4.40
18	8/21	2517	1.55	54	58	35	29	23	12	4	27	10	5.5	1		20.5	3.6	.15	21		1	12	5.20
19	8/22	2701	1.68	65	90	58	45	32	26	12	60	9.5	6.4	1	23	20.5	2.9	.1	23		1	19	3.70
20	8/23	2850	1.68	58	71	44	35.5	27	17	9	62	9.6	6.3	1	22	20.5	2.8	.1	22		1	21	4.70
21	8/24	2932	1.68	65	75	47	37.5	28	19	9	63	10.2	5.6	1	19	20.5	2.6	.2	22		1	22	4.30
22	8/25	2963	1.68	62	67	42	33.5	25	17	9	56	9.6	5.4	1	19	20.5	2.6	.15	22.5		1	22	4.90
23	8/26	3052	1.68	53	58	36	29	22	14	7	45	10.1	5.8	1	19	20.5	2	.15	22.5		.75	20	3.60
24	8/27	3093	1.68	65	60	38	30	22	16	7	53	9.5	5.8	1	19	20.5	2.2	.15	22.5		.75	18	3.80
25	8/28	3138	1.68	59	63	39	31.5	24	15	6	46	10.2	4.8	1	19	20.5	2.18	.2	22.5		.75	19	3.90
26	8/29	3191	1.68	50	53	33	26.5	20	13	5	28	9.9	4.6	1	19	20.5	2.3	.2	22.5		.5	19	3.80

STATOIL WELL NO.6406/3-3

DRILLING MUD PROPERTIES RECORD

AREA HALTENBANKEN

MUD SYSTEM: SPUD MUD/GYP POLYMER/GEL-LIGN. RIG DYVI DELTA

DAY No.	DATE 1986	DEPTH metre	M.W. sg	F.V. s/qt	600	300	A.V cps	P.V cps	Y.P	GEL 0	GEL 10	pH	API Filt.	CAKE 32nds	HTHP ml.	Chl.ppm *1000	Calc. g/lit.	Pf	%Sol.	%Oil	%Sand	MBT ppb	GYP ppb
27	8/30	3207	1.68	51	56	35	28	21	14	4	29	10.3	4.5	1	19	20.5	2.12	.2	23		.5	19	3.60
28	8/31	3259	1.68	55	55	35	27.5	20	15	5	29	10.3	4.8	1	20	20.5	2.04	.2	23		.25	19	3.30
29	9/ 1	3285	1.68	58	54	34	27	20	14	5	36	10	4.9	1	19	20.5	2.2	.15	23		.25	20	3.60
30	9/ 2	3349	1.71	55	53	33	26.5	20	13	5	36	10.1	5	1	21	20.5	2.3	.15	24		.5	19	3.70
31	9/ 3	3418	1.71	58	57	36	28.5	21	15	5	40	10.2	4.6	1	21	20.5	2.18	.2	24		.25	20	3.70
32	9/ 4	3488	1.71	53	55	35	27.5	20	15	5	31	10.4	4.6	1	19	20.5	1.92	.2	24		.25	20	3.70
33	9/ 5	3573	1.71	56	57	36	28.5	21	15	5	37	10	4.9	1	21	19	1.72	.15	24		.5	20	2.80
34	9/ 6	3598	1.71	59	60	38	30	22	16	5	33	10	4.6	1	21	20	1.68	.15	24		.5	20	2.30
35	9/ 7	3649	1.71	53	53	33	26.5	20	13	4	28	9.9	4.7	1	21	20	1.68	.15	24		.5	20	1.80
36	9/ 8	3716	1.71	54	59	37	29.5	22	15	6	46	10.5	5	1	21	20	1.4	.25	24		.5	20	1.70
37	9/ 9	3772	1.71	56	56	35	28	21	14	5	39	9.9	5.1	1	21	19	1.28	.15	24		.5	21	2.00
38	9/10	3812	1.75	60	62	39	31	23	16	6	40	9.4	4.9	1	21	20	1.28	.1	26		.5	21	1.90
39	9/11	3836	1.75	58	68	42	34	26	16	8	42	9.4	5.3	1	21	20	1.2	.05	26		1.5	21	1.90
40	9/12	3881	1.75	55	62	38	31	24	14	4	31	10.2	5.3	1	21	19	.8	.2	26		.75	22	1.70
41	9/13	3929	1.75	53	68	42	34	26	16	6	33	9.6	4.9	1	22	20	.8	.1	26		.5	22	1.70
42	9/14	3936	1.75	52	64	40	32	24	16	5	30	9.5	5	1	21	20	.84	.1	26		.75	22	
43	9/15	3936	1.75	52	64	40	32	24	16	5	30	9.5	5	1	21	20	.84	.1	26		.75	22	
44	9/16	3936	1.75	58	71	43	35.5	28	15	6	30	9.2	5.4	1	21	20	.8	.1	26		.5	22	
45	9/17	3936	1.75	48	64	38	32	26	12	5	27	9.3	5.1	1	22	20	.8	.15	26		.5	22	
46	9/18	3936	1.75	53	66	41	33	25	16	5	18	9	6	1	22	20	.8	.5	26		.5	22	
47	9/19	3936	1.7	60	66	42	33	24	18	6	77	13	8.2	1	22	20	.4	2.7	24		.5	21	
48	9/20	3936	1.25	50	37	24	18.5	13	11	5	31	10.1	5.6	1	20	8	.4	.3	10		.5	22	
49	9/21	3978	1.25	60	34	22	17	12	10	3	14	11.8	6.6	1	20	9	.2	.5	11		.25	19	
50	9/22	4026	1.25	58	41	26	20.5	15	11	3	20	10.6	6.7	1	20	11.5	.24	.6	9		.25	17	
51	9/23	4153	1.25	50	41	25	20.5	16	9	3	14	10.7	5	1	19	8	.28	.4	9		Tr.	21	
52	9/24	4192	1.25	57	39	24	19.5	15	9	3	12	10.7	4.8	1	16	8.5	.34	.4	9		Tr.	21	

STATOIL WELL NO.6406/3-3

DRILLING MUD PROPERTIES RECORD

AREA HALTENBANKEN

MUD SYSTEM: SPUD MUD/GYP POLYMER/GEL-LIGN. RIG DYVI DELTA

DAY No.	DATE 1986	DEPTH metre	M.W. sg	F.V. s/qt	600	300	A.V cps	P.V cps	Y.P	GEL 0	GEL 10	pH	API Filt.	CAKE 32nds	HTHP ml.	Chl.ppm *1000	Calc. g/lit.	Pf	%Sol.	%Oil	%Sand	MBT ppb	GYP ppb
53	9/25	4353	1.25	60	39	24	19.5	15	9	3	10	10.6	4.6	1	16	9	.34	.3	10		.25	22	
54	9/26	4416	1.25	57	38	23	19	15	8	3	10	10.5	4.3	1	15	9.5	.28	.2	10		.2	23	
55	9/27	4416	1.25	70	49	29	24.5	20	9	3	10	10.2	4.4	1	15	10	.36	.2	10		.25	23	
56	9/28	4416	1.25	75	60	35	30	25	10	3	12	10	4.5	1	15	10	.28	.2	10		.25	23	
57	9/29	4416	1.25	125	59	35	29.5	24	11	3	22	10.8	4.1	1	16	9.5	.42	.3	10		.25	23	
58	9/30	4416	1.25	130	56	33	28	23	10	3	19	10.7	4.1	1	16	9.5	.42	.3	10		.25	23	
59	10/ 1	4416	1.25	119	58	34	29	24	10	3	17	10.5	4.1	1	16	10	.42	.25	10		.25	23	
60	10/ 2	4416	1.25	90	48	28	24	20	8	3	11	10.2	4.1	1	17	10	.34	.15	10		.25	23	
61	10/ 3	4416	1.25	87	46	27	23	19	8	3	13	10.6	4.1	1	16	11	.38	.25	10		.25	23	
62	10/ 4	4416	1.25	70	40	24	20	16	8	3	10	10.6	4.4	1	17	12	.4	.25	9.5		.25	22	
63	10/ 5	4416	1.25	55	34	21	17	13	8	3	14	12.5	5	1	17	11.5	.28	1	9.5		.25	22	
64	10/ 6	4416	1.25	60	35	22	17.5	13	9	4	25	12.5	7.8	1	18	9.5	.42	1.5	9.5		Tr.	22	
65	10/ 7	4416	1.25	50	30	19	15	11	8	4	26	12.5	8.8	1	19	11	.42	1.3	9.5		Tr.	21	
66	10/ 8	4416	1.25	49	29	18	14.5	11	7	4	24	12.5	8.8	1	19	11.5	.42	1.3	9		Tr.	21	
67	10/ 9	4416	1.25	48	29	17	14.5	12	5	3	22	12.8	9	1	22	11.5	.44	1.4	9		Tr.	21	
68	10/10	4416	1.25	48	29	18	14.5	11	7	2	20	12.8	9	1	23	12	.44	1.3	9		Tr.	21	
69	10/11	4416	1.25	54	50	30	25	20	10	4	31	12.5	8.5	1	23	13	.24	1.1	9		Tr.	21	
70	10/12	4416	1.25	54	31	18	15.5	13	5	3	16	12.6	8	1		14	.36	1	9		Tr.	20	
71	10/13	4416	1.25	52	31	18	15.5	13	5	2	17	12	7.9	1		13	.36	.9	9		.25	18	
72	10/14	4416	1.25	50	30	17	15	13	4	2	16	12	8.3	1		12	.4	.75	9		.25	18	
73	10/15	3995	1.26	51	25	15	12.5	10	5	2	8	12.7	8.5	1		12	.28	.85	9		.25	18	
74	10/16	3995	1.25	55	30	17	15	13	4	2	9	12.3	8.5	1		12	.28	.85	9		.25	18	
75	10/17	3995	1.25	55	30	17	15	13	4	2	9	12.1	8.5	1		12	.27	.8	9		.25	18	
76	10/18	3995	1.25	50	24	14	12	10	4	2	9	12.2	8.5	1		12	.32	.8	9		.25	16	
77	10/19	3720	1.25	45	22	13	11	9	4	2	8	12.5	8.4	1		12	.3	.8	9		.25	16P	
78	10/20	3701	1.75	70	49	27	24.5	22	5	7	46	12.2	8.8	2		12	.24	.6	25		1.5	15	
79	10/21	3696	1.75	57	51	28	25.5	23	5	7	48	12.2	8.7	2		12	.24	.6	25		1.5	15	
80	10/22	1155	1.55	57	45	28	22.5	17	11	12	71	12.8	9.4	2		14	.32	1	17		1	16	
81	10/23	886	1.16	32	13	10	6.5	3	7	3	12	9.8	N.C			18	.54	.15	6		.25	10	