SUMMARY OF TESTRESULTS

FROM

BRENT GROUP, 30/2-2

Test No.	:	1 B
Interval (m KB)	:	4071 - 4076
Flowperiod (hrs)	:	7.07
Choke (mm)	:	19.05
Liquid Rate (m^3/D)	:	5
Last Flowing Bottomhole Pressure Reading (bar)	:	345
Last Buildup Pressure Reading (bar)	:	654
Max Temperature Reading (^oC)	:	150

Comment: 1 A failed due to problems with testequipment.

Test No.	:	2 B
Interval (m KB)	:	4011-4013, 4017-4025, 4035-4042
Flowperiod (hrs)	:	13.5
Choke (mm)	:	19.05
Liquid Rate (m^3/D)	:	8
Last Flowing Bottomhole Pressure Reading (bar)	:	361
Last Buildup Pressure Reading (bar)	:	675
Max Temperature Reading (^oC)	:	148

Comment: 2 A failed due to problems with testequipment.

Test No.	:	3
Interval (m KB)	:	3935-3949, 3955-3959, 3967-3974
Flowperiod (hrs)	:	18.7
Choke (mm)	:	19.05
Gas Rate (sm^3/D)	:	226
Gas Density (rel. air)	:	0.734
Cond Rate (sm^3/D)	:	105
Cond Density (g/cc)	:	0.808
GOR (sm^3/sm^3)	:	2160
Last Flowing Bottomhole Pressure Reading (bar)	:	138
Last Buildup Pressure Reading (bar)	:	676
Max Temperature Reading (^oC)	:	137

OPERATOR STATOIL

WELL NO. 30/2-2

MATERIAL CONSUMPTION & COST ANALYSIS

36" HOLE DRILLED TO 214 Meters ~~XX Feet~~ 30" CASING SET AT 214 Meters ~~XXX Feet~~

ACTUAL AMOUNT OF HOLE DRILLED 62 Meters ~~XX Feet~~ DAYS ON INTERVAL 1

DRILLING FLUID SYSTEM SPUD MUD

MATERIAL	UNIT SIZE	UNIT PRICE	CONSUMPTION	COST
BENTONITE	MT	380	21	7.980,-
CAUSTIC	25 KG	20	4	80,-
BICARB	50 KG	24	4	96,-

COST/DAY US$ 8.156,- COST FOR INTERVAL US$ 8.156,-

COST/ METRE US$ 131,55

OPERATOR STATOIL

WELL NO. 30/2-2

MATERIAL CONSUMPTION & COST ANALYSIS

26" HOLE DRILLED TO 1023 Meters ~~Feet~~ 20" CASING SET AT 1008 Meters ~~Feet~~

ACTUAL AMOUNT OF HOLE DRILLED 809 Meters ~~Feet~~ DAYS ON INTERVAL 9

DRILLING FLUID SYSTEM GEL / SEAWATER

MATERIAL	UNIT SIZE	UNIT PRICE	CONSUMPTION	COST
ILMENITE	MT	148	16	2.368,-
BENTONITE	MT	380	84	31.920,-
CAUSTIC	25 KG	20	124	2.480,-
BICARB.	50 KG	24	2	48,-
SODA ASH	50 KG	21	7	147,-

COST/DAY US$ 4.107,- COST FOR INTERVAL US$ 36.963,-

COST/METRE US$ 45,69

OPERATOR STATOIL

WELL NO. 30/2-2

MATERIAL CONSUMPTION & COST ANALYSIS

17 ½" HOLE DRILLED TO 2365 Meters ~~Feet~~ 13 3/8" CASING SET AT 2350 Meters ~~Feet~~

ACTUAL AMOUNT OF HOLE DRILLED 1342 Meters ~~Feet~~ DAYS ON INTERVAL 14

DRILLING FLUID SYSTEM GYP / CMC

MATERIAL		UNIT SIZE	UNIT PRICE	CONSUMPTION	COST
ILMENITE	MT	MT	148	674	99.752,-
BENTONITE	MT	MT	380	18	6.840,-
BENTONITE	SXS	50 KG	18	44	792,-
LIGNO	SXS	25 KG	19.50	214	4.173,-
DESCO	SXS	25 LBS	38	30	1.140,-
CMC LV	SXS	25 KG	65	281	18.265,-
CMC HV	SXS	25 KG	67	171	11.457,-
DRISPAC REG.	SXS	50 LBS	154	39	6.006,-
CAUSTIC	SXS	25 KG	20	290	5.800,-
SODA BICARB	SXS	50 KG	24	105	2.520,-
SODA ASH	SXS	50 KG	21	6	126,-
GYP	SXS	40 KG	10.50	1017	10.678,50
$CaCl_2$	SXS	50 KG	30	7	210,-
DEFOAMER	CAN	25 LTR	118	1	118,-

COST/DAY US$ 11.991,25 COST FOR INTERVAL US$ 167.877,50

COST/ METRE US$ 125,10

OPERATOR STATOIL

WELL NO. 30/2-2

MATERIAL CONSUMPTION & COST ANALYSIS

12 1/4" HOLE DRILLED TO 3802 Meters ~~Feet~~ 9 5/8" CASING SET AT 3788 Meters ~~Feet~~

ACTUAL AMOUNT OF HOLE DRILLED 1437 Meters ~~Feet~~ DAYS ON INTERVAL 33

DRILLING FLUID SYSTEM GYP / CMC

MATERIAL	UNIT SIZE	UNIT PRICE	CONSUMPTION	COST
ILMENITE	M/T	148	1122	166.056,-
BARITE	M/T	148	100	14.800,-
BENTONITE	M/T	380	7	2.660,-
CAUSTIC	25 KG	20	522	10.440,-
LIGNO	25 KG	19.50	848	16.536,-
DESCO	25 LBS	38	53	2.014,-
CMC LV	25 KG	65	445	28.925,-
CMC HV	25 KG	67	33	2.211,-
DRISPAC REG.	25 KG	154	9	1.386,-
GYPSUM	40 KG	10.50	521	5.470,50
DEFOAMER	25 LTR	118	6	708,-

COST/DAY US$ 7.612,32 COST FOR INTERVAL US$ 251.206,50

COST/ METRE US$ 174,81

OPERATOR STATOIL

WELL NO. 30/2-2

MATERIAL CONSUMPTION & COST ANALYSIS

8 ½" HOLE DRILLED TO 4172 Meters ~~Feet~~ 7" liner CASING SET AT 4170 Meters ~~Feet~~

ACTUAL AMOUNT OF HOLE DRILLED 650 Meters ~~Feet~~ DAYS ON INTERVAL 44

DRILLING FLUID SYSTEM GEL / LIGNO

MATERIAL	UNIT SIZE	UNIT PRICE	CONSUMPTION	COST
BARITE M/T	M/T	148	1131	167.388,-
BENTONITE	"	380	62	23.560,-
BENTONITE	50 KG	18	51	918,-
CAUSTIC SODA	25 KG	20	251	5.020,-
SODA ASH	50 KG	21	89	1.869,-
BICARB	50 KG	24	115	2.760,-
LIGNO	25 KG	19.50	447	8.716,50
LIGNITE	25 KG	32	408	13.056,-
DESCO	25 LBS	38	98	3.724,-
ANCO RESIN	25 KG	81.25	191	15.518,75
CMC LV	25 KG	65	249	16.185,-
CMC HV	25 KG	67	42	2.814,-
LIME	25 KG	6.50	54	351,-
DEFOAMER	25 LTRS	118	7	826,-
IMCO SPOT		85	95	8.075,-
PIPELAX	200 LTRS	1089	5	5.445,-
A. OXIN	25 LTRS	133	3	399,-

COST/DAY US$ 6.286,94 COST FOR INTERVAL US$ 276.625,25

COST/ MT US$ 425,58

OPERATOR STATOIL

WELL NO. 30/2-2

TOTAL CONSUMPTION & COST ANALYSIS

TOTAL DEPTH 4172 Meters ~~Feet~~

TOTAL HOLE DRILLED 4300 Meters ~~Feet~~

TOTAL DAYS 140

MATERIAL	UNIT SIZE	UNIT PRICE	CONSUMPTION	COST
BARITE	MT	148	1231	182.188,-
ILMENITE	MT	148	1812	268.176,-
BENTONITE	MT	380	192	72.960,-
BENTONITE	50 KG	18	95	1.710,-
CAUSTIC	25 KG	20	1191	23.820,-
SODA ASH	50 KG	21	102	2.142,-
BICARB	50 KG	24	226	5.424,-
LIGNO	25 KG	19.50	1509	29.425,50
LIGNITE	25 KG	32	408	13.056,-
DESCO	25 LBS	38	181	6.878,-
ANCO RESIN	25 KGS	81.25	191	15.518,75
CMC LV	25 KG	65	975	63.375,-
CMC HV	25 KG	67	246	16.482,-
LIME	25 KG	6.50	54	351
DEFOAMER	25 LTRS	118	14	1.652,-
IMCO SPOT	50 LBS	85	95	8.075,-
PIPELAX	200 LTRS	1089	5	5.445,-
A. OXIN	25 LTRS	133	3	399
GYPSUM	40 KG	10.50	1538	16.149,-
$CaCl_2$	50 KG	30	7	210,-
DRISPAC REG.	50 LBS	154	48	7.392,-

COST/DAY US$ 5.291,63

TOTAL CHEMICAL COSTS US$ 740.828,25

COST/METRE US$ 179,29

TOTAL ENGINEERING CHARGES

TOTAL DRILLING FLUID RELATED COSTS

ANCHOR DRILLING FLUIDS AS
OSLO — STAVANGER

Drilling Mud Properties Record

MUD SYSTEM GEL/SEAWATER 36" Hole 30" casing, 26" hole 20" casing

WELL NAME 30/2-2 AREA NORTH SEA
OPERATOR STATOIL RIG DYVI DELTA
ENGINEERS SUNDE/FOLKVORD/WIIK

Day No.	DATE 1984	DEPTH FEET ☐ METERS ☐	DENSITY PPG ☐ SG ☐	VISCOSITY sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.	GELS 0 / 10	FLUID LOSS 30 Min cc's	CAKE 32 nds	H.T.H.P. cc's	pH	Cl⁻ ppm x1000	Filtrate Analysis Ca ++ ppm	Pf	RETORT % OIL	% SOLIDS	% SAND	BENTONITE #/BBL	POLYMER #/BBL	"N"	"K"	OPERATION REMARKS
1	16.12																						
2	17.12																						
3	18.12																						
4	19.12																						END OF 36" SECTION
5	20.12	214	1.05	45	18	8	20																
6	21.12	215	1.05	43	17	7	20																
7	22.12	215	1.05	43	17	7	20																
8	23.12	330	1.08	38	20	7	26	15/15				9.7	13	240	.1	-	5	Tr	19				
9	24.12	811	1.07	37	19	5	28	19/21				9.7	18	400	.1	-	5	Tr	14				
10	25.12	1019	1.08	34	15.5	5	21	14/14				10.0	19	400	.1	-	5	Tr	15				
11	26.12	1019	1.07	42	22	7	30	20/22															
12	27.12	1019	1.07	60	37.5	7	61	28/35															
13	28.12	1023	1.07	61	38	8	60	26/32															END OF 26" SECTION
14	29.12	1023	1.06	45	9	4	10	1/6	25	1		10.2											

REMARKS

ANCHOR DRILLING FLUIDS AS
OSLO — STAVANGER

WELL NAME 30/2-2 AREA NORTH SEA NORWAY
OPERATOR STATOIL RIG DYVI DELTA
ENGINEERS WIIK, MARKEN

Drilling Mud Properties Record

MUD SYSTEM GYP/CMC 17 1/2" Hole, 13 3/8" casing

Day No.	DATE 84/85	DEPTH (FEET / METERS)	DENSITY PPG / SG	VISCOSITY sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.	GELS 0 / 10	FLUID LOSS 30 Min cc's	CAKE 32 nds	H.T.H.P. cc's	pH	Cl⁻ ppm	Filtrate Analysis Ca++ ppm	Pf	RETORT % OIL	% SOLIDS	% SAND	BENTONITE #/BBL	EXCESS GYP	POLYMER #/BBL	"N"	"K"	OPERATION REMARKS
15	30.12	Pit	1.06	43	9	4	10	1/6	12	1		10.2		3800					10	6				
16	31.12	Pit	1.07	35	7	3	8	1/4	14	1		10.5		3200	.05/.2	0	5	-	10	5				
17	01.01	1070	1.08	43	12.5	8	9	2/9	8	1		11.2	11K	1280	.1/.3	0	10	-	10.5	5				
18	02.01	1495	1.10	42	13	8	10	4/36	8.6	1		9.6	13.5	1600	.05	0	9	1/4	21	4.5				
19	03.01	1790	1.11	51	17	9	16	13/58	12.8	2		9.3	17K	2280	.05	0	7	1/4	26	3.1				
20	04.01	1954	1.25	51	19	9	20	22/39	19.5	2		9.4	17.5K	1960	.05	0	11	1/4	29	2.1				
21	05.01	2138	1.45	64	31	15	32	33/52	17.5	2		9.5	18K	2400	.05	0	16	1/4	29	2.1				
22	06.01	2258	1.45	56	25	16	18	16/44	14.0	2		9.1	19K	2400	.05	Tr	15	1/2	30	3.1				
23	07.01	2365	1.45	48	20	13	14	10/39	16.0	2		9.5	19.5K	2320	.05	Tr	16	1/4	29	4.0				
24	08.01	2365	1.53	58	26	16	18	16/51	13.8	2		9.9	19.5K	2160	.1	Tr	20	1/2	30	4.1				
25	09.01	2365	1.53	66	23.5	16	15	10/48	13	2		9.2	19.5K	2040	.05	Tr	19.5	1/2	30	4.2				
26	10.01	2365	1.53	58	24	18	12	8/45	12	2		9.5	19.5K	1800	.05	Tr	19	1/2	31	5.1				
27	11.01	2365	1.53	60	24.5	16	17	12/59	12.2	2		9.5	19.5K	1720	.05	Tr	17	1/2	30	4.7	END OF 17 ½"			
28	12.01	2380	1.55	53	23	16	14	11/60	13.2	2		10.8	19.5K	1880	.15	Tr	17	1/4	26	4.1				

REMARKS

ANCHOR DRILLING FLUIDS AS
OSLO — STAVANGER

WELL NAME 30/2-2 AREA NORTH SEA NORWAY

Drilling Mud Properties Record

OPERATOR STATOIL RIG DYVI DELTA

MUD SYSTEM GYP/CMC ENGINEERS TORGERSEN/FOLKVORD/SUNDE/PARSONS

Day No.	DATE	DEPTH FEET ☐ METERS ☒	MUD PROPERTIES: DENSITY PPG ☐ SG ☒	VISCOSITY sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.	GELS 0/10	FLUID LOSS 30 Min cc's	CAKE 32 nds	H.T.H.P. cc's	pH	Filtrate Analysis Cl⁻ ppm x1000	Ca ++ ppm	Pf	RETORT % OIL	% SOLIDS	% SAND	BENTONITE #/BBL	EXCESS GYP	POLYMER #/BBL	"N"	"K"	OPERATION REMARKS
29	13.01	2472	1.55	56	26.5	18	17	10/70	8.8	1	28	9.8	20	2000	.1	-	18.5	Tr	21	3.9				
30	14.01	2565	1.70	56	30	22	16	10/78	8.8	1	28	9.8	20.5	1860	.1	Tr	22.5	Tr	19	2.9				
31	15.01	2677	1.73	52	29.5	22	15	8/75	8.8	1	30	9.9	20.5	2080	.1	Tr	22.5	Tr	19	2.4				
32	16.01	2742	1.77	53	29.5	22	15	7/65	8.6	1	30	9.5	21	2040	.05	Tr	23.6	Tr	19	2.8				
33	17.01	2802	1.75	52	27.5	20	15	9/63	7.8	1	29	9.3	21	1800	.05	Tr	23.4	Tr	19	2.8				
34	18.01	2865	1.75	52	30.5	22	17	16/86	8.5	1	28	9.4	20.5	1720	.1	Tr	23.0	0	19	2.5				
35	19.01	2930	1.78	53	30.5	22	17	15/80	9.3	1	31	9.2	21	1680	.05	Tr	24.4	0	18	2.0				
36	20.01	2990	1.79	54	31	22	18	16/87	8.8	1	28	9.2	21	1680	.05	Tr	25	0	21	2.3				
37	21.01	3033	1.79	53	28.5	21	15	9/60	9.0	2	28	9.5	21	1480	.1	Tr	25	0	21	3.0				
38	22.01	3109	1.79	51	29.5	20	19	17/78	9.6	2	31	9.2	21	1680	.05	Tr	25	0	18	2.1				
39	23.01	3145	1.79	53	29.5	21	17	12/70	9.5	2	33	9	21	1600	.05	Tr	25	Tr	18	2.3				
40	24.01	3197	1.79	50	29.5	21	17	10/65	9.2	2	31	8.8	21	1540	.05	Tr	27	Tr	20	2.3				
41	25.01	3222	1.79	54	27.5	19	17	10/66	8.8	2	30	9.2	21	1600	.05	0	28	Tr	20	2.1				
42	26.01	3249	1.79	53	27	19	16	12/57	9.4	2	32	9.7	21	1560	.15	0	27	Tr	18	2.5				

REMARKS

ANCHOR DRILLING FLUIDS AS
OSLO — STAVANGER

WELL NAME 30/2-2 AREA NORTH SEA NORWAY
OPERATOR STATOIL RIG DYVI DELTA
ENGINEERS SUNDE/PARSONS/TORGERSEN/FOLKVORD

Drilling Mud Properties Record

MUD SYSTEM GYP/CMC

Day No.	DATE	DEPTH FEET ☐ METERS ☒	MUD PROPERTIES: DENSITY PPG ☐ SG ☒	VISCOSITY sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.	GELS 0/10	FLUID LOSS 30 Min cc's	CAKE 32 nds	H.T.H.P. cc's	pH	Filtrate Analysis Cl⁻ ppm x1000	Ca ++ ppm	Pf	RETORT % OIL	% SOLIDS	% SAND	BENTONITE #/BBL	EXCESS GYP	POLYMER #/BBL	"N"	"K"	OPERATION REMARKS
43	27.01	3302	1.79	51	28	19	18	14/85	9.4	2	32	9.2	21	1760	.1	-	28	Tr	17	2.9				
44	28.01	3339	1.79	52	27.5	19	17	14/75	9.6	2	33	9.1	21	1920	.05	-	28	Tr	17	3.2				
45	29.01	3369	1.79	53	27.5	19	17	13/69	9.6	2	34	9.3	21	1880	.1	-	28	Tr	17	3.3				
46	30.01	3428	1.79	50	26.5	18	17	12/72	9.6	2	34	9.3	21	1760	.1	-	28	Tr	17	3.3				
47	31.01	3457	1.79	52	26	18	16	11/72	9.5	2	34	9.4	21	1600	.1	-	28	1/4	17	2.2				
48	01.02	3547	1.79	53	27	19	16	12/68	8.4	2	32	9.8	21	1640	.15	-	26	1/4	16	2.5				
49	02.02	3625	1.79	49	25.5	19	13	9/48	8.0	2	32	9.3	21	1580	.1	-	26	1/4	16	2.7				
50	03.02	3664	1.79	50	27	20	14	9/57	8.0	2	32	10	21	1400	.15	-	26	1/4	16	2.4				
51	04.02	2691	1.79	55	28	20	16	9/66	8.0	2	33	10.4	21	1600	.25	-	26	1/4	16	2.4				
52	05.02	3713	1.79	52	29.5	22	15	7/49	7.8	2	32	10.1	21	1720	.2	-	26	Tr	16	2.9				
53	06.02	3749	1.79	51	29	21	16	7/39	7.5	2	30	10.3	21	1680	.25	-	27	Tr	16	3.2				
54	07.02	3776	1.79	52	29	22	14	6/37	7.4	2	30	10.2	21	1560	.2	-	26.5	Tr	17	3.5				
55	08.02	3802	1.82	49	29	23	12	5/30	7.4	2	29	10.0	20.5	1360	.2	-	27	Tr	17	2.7				
56	09.02	pit	1.82	72	31	23	16	8/39	7.0	2	29	9.6	20.5	1480	.2	-	27	Tr	17	2.8				

REMARKS

ANCHOR DRILLING FLUIDS AS
OSLO — STAVANGER

WELL NAME 30/2-2 AREA NORTH SEA NORWAY
OPERATOR STATOIL RIG DYVI DELTA
ENGINEERS TORGERSEN/FOLKVORD/SUNDE/PARSONS

Drilling Mud Properties Record

MUD SYSTEM GYP/CMC/LIGNO

Day No.	DATE	DEPTH (FEET ☐ METERS ☒)	DENSITY PPG ☐ SG ☒	VISCOSITY sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.	GELS 0/10	FLUID LOSS 30 Min cc's	CAKE 32 nds	H.T.H.P. cc's	pH	Cl⁻ ppm x1000	Ca ++ ppm	Pf	% OIL	% SOLIDS	% SAND	BENTONITE #/BBL	EXCESS GYP	POLYMER #/BBL	"N"	"K"	OPERATION REMARKS
57	10.02	3802	1.82	52	29.5	23	13	5/38	7.4	2	29	10.2	21	1120	0.25	Tr	27	Tr	17	2.9				
58	11.02	3802	1.82	52	29	23	12	5/31	7.6	2	30	9.9	21	1080	0.15	-	27	Tr	17	2.8				
59	12.02	3788	1.82	58	26.5	21	11	4/23	7.2	2	29	9.7	21	1240	0.1	-	27	Tr	17	2.6				
60	13.02	3802	1.82	53	25.5	20	11	4/28	7.2	2	29	9.5	21	1280	0.1	-	27	Tr	16	2.3				
61	14.02	3819	1.88	54	30	24	12	5/45	7.1	2	30	9.6	21	680	0.15	-	29	1/4	17					
62	15.02	3867	1.88	56	33	26	14	5/33	6.8	2	29	9.7	21	320	0.25	-	29.5	1/4	18					
63	16.02	3907	1.91	57	35.5	27	17	7/44	6.7	2	28	9.9	21	50	0.5	-	31	1/4	18					
64	17.02	3913	1.91	67	36.5	28	17	7/45	6.6	2	28	9.5	21	100	0.3	-	31	1/4	19					
65	18.02	3939	1.91	59	30	23	14	7/48	6.6	2	28	10.6	21	40	1.0	-	31	1/4	18					
66	19.02	3939	1.91	65	30.5	23	15	7/46	6.8	2	28	10.3	21	20	0.75	-	31	1/4	18					
67	20.01	3939	1.91	68	32	24	16	7/48	6.8	2	28	10.1	21	20	0.6	-	31	1/4	18					
68	21.02	3958	1.91	60	33	24	18	12/56	7.4	2	30	9.9	21	40	.8	-	31	1/4	18					
69	22.02	3979	1.91	64	30	22	16	8/48	7.6	2	30	10.8	22	30	1.2	-	31	1/2	18					
70	23.02	3989	1.91	60	30	22	16	9/47	7.8	2	30	11.0	21	30	1.2	-	31	1/2	18					

REMARKS

ANCHOR DRILLING FLUIDS AS
OSLO — STAVANGER

Drilling Mud Properties Record

MUD SYSTEM: GEL/LIGNO

WELL NO: 30/2-2
OPERATOR: STATOIL
ENGINEERS: SUNDE/PARSONS/ATKINS/FOLKVORD

AREA: NORTH SEA NORWAY
RIG: DIVI DELTA

Day No.	DATE 1985	DEPTH FEET ☐ METERS ☒	DENSITY PPG ☐ SG ☒	VISCOSITY sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.	GELS 0/10	FLUID LOSS 30 Min cc's	CAKE 32 nds	H.T.H.P. cc's	pH	Cl⁻ ppm x1000	Ca ++ ppm	Pf	% OIL	% SOLIDS	% SAND	BENTONITE #/BBL	Excess Gyp	POLYMER #/BBL	"N"	"K"	OPERATION REMARKS
71	24.2	3997	1.94	61	31	24	14	10/49	7.9	2	28	11.3	21	100	1.5	-	31	1/2	18					
72	25.2	4014	1.94	62	35	26	18	10/56	6.4	2	26	10.7	21	20	1.5	-	32	1/2	18					
73	26.2	4029	1.94	74	37.5	27	21	10/58	5.8	2	25	11.4	21	21	1.9	-	32	1/2	18					
74	27.2	4042	1.94	72	36	27	18	11/57	5.6	2	24	11.7	21	20	2.5	-	32	1/2	18					
75	28.2	4048	1.94	76	41	32	20	14/58	5.8	2	26	11.5	21	40	2.3	-	32	1/2	18					
76	1.3	4052	1.94	65	32	22	20	14/164	70	2	28	11.5	21	40	2	-	32	1/2	18					
77	2.3	4077	1.94	63	30	21	18	12/62	6.2	2	28	11.7	21	40	2	-	32	1/2	18					
78	3.3	4112	1.94	61	35	26	18	8/62	6.0	2	27	11.7	21	80	2.1	-	32	1/2	18					
79	4.3	4139	1.94	76	36.3	28	17	13/66	5.6	2	25	11.7	21	100	1.8	-	32	1/2	18					
80	5.3	4174	1.94	71	43	31	24	10/48	58	2	23	10.9	21	140	7	-	32	1/2	18					
81	6.3	4174	1.94	76	41	30	22	7/42	5.2	2	23	11.1	21	120	7	-	32	1/2	18					
82	7.3	4174	1.94	78	41.5	30	23	8/48	5.2	2	23	10.8	21	160	6	-	32	1/2	18					
83	8.3	4174	1.94	76	41	30	22	8/50	5.4	2	23	10.6	21	180	6	-	32	1/2	18					
84	9.3	4160	1.94	88	39	29	20	9/50	5.2	2	23	10.6	20.5	180	6	-	31	1/2	17					

REMARKS

ANCHOR DRILLING FLUIDS A/S
OSLO — STAVANGER

Drilling Mud Properties Record

MUD SYSTEM GEL/LIGNO

WELL NAME 30/2-2 AREA NORTH SEA NORWAY
OPERATOR STATOIL RIG DYVI DELTA
ENGINEERS ATKINS/FOLKVORD/SUNDE/PARSONS

Day No.	DATE 1985	DEPTH FEET ☐ METERS ☒	MUD PROPERTIES: DENSITY PPG ☐ SG ☒	VISCOSITY sec/qt	VISCOSITY A.V. cps	VISCOSITY P.V. cps	VISCOSITY Y.P #/100 sq.ft.	GELS 0/10	FLUID LOSS 30 Min cc's	CAKE 32 nds	H.T.H.P. cc's	pH	Filtrate Analysis Cl⁻ ppm x1000	Filtrate Analysis Ca ++ ppm	Filtrate Analysis Pf	RETORT % OIL	RETORT % SOLIDS	RETORT % SAND	BENTONITE #/BBL	EXCESS GYP	POLYMER #/BBL	"N"	"K"	OPERATION REMARKS
85	10.3	3788	1.94	88	41.5	31	21	9/55	6.0	2	24	11.8	20.5	400	1.1	–	32	1/2	16					
86	11.3	3823	1.94	75	45.5	34	23	11/60	6.0	2	24	12	21.5	640	1.4	–	31	1/2	17					
87	12.3	3896	1.94	65	39	30	18	4/38	5.5	2	23	12.3	19.5	620	2.2	–	31	1	16					
88	13.3	3913	1.94	66	39.5	32	15	4/28	5	2	21	11.8	19.5	500	0.8	–	31	3/4	16					
89	14.3	3919	1.94	66	38	32	12	3/20	4.1	1	18	11.4	18.5	320	0.5	–	29.5	1	15					
90	15.3	3947	1.94	63	43.5	36	15	4/19	4	1	18	11.5	19.5	280	0.7	–	29.5	1/2	15					
91	16.3	3927	1.94	75	41.5	35	13	4/24	4.1	1	18	11.6	19	480	0.5	–	29.5	3/4	15					
92	17.3	3966	1.94	75	45.5	36	19	5/35	4.0	1	19	11.4	19	420	0.4	–	29.5	3/4	15					
93	18.3	3985	1.94	64	43.5	36	15	5/27	4.1	1	19.6	11.0	19	320	0.5	–	29.5	1	15					
94	19.3	4009	1.94	76	46	37	18	5/31	4.1	1	19.4	10.3	18.5	240	.45	–	29.5	1	15					
95	20.3	4048	1.94	75	44.5	36	17	5/28	4.0	1	16	10.6	18.5	300	.45	–	29.5	1 1/4	15					
96	21.3	4103	1.94	73	43	35	16	7/42	4.6	1	19.6	10.8	18.5	300	.5	–	29.5	1 1/4	15					
97	22.3	4170	1.94	67	41.5	34	15	6/38	4.4	1	17	10.9	18.5	180	.6	–	30	1 ½	15					
98	23.3	4172	1.94	66	42	34	16	7/38	4.4	1	18	11.0	18.5	240	.6	–	30	1	15					

REMARKS

ANCHOR DRILLING FLUIDS AS
OSLO — STAVANGER

WELL NAME 30/2-2 AREA NORTH SEA NORWAY
OPERATOR STATOIL RIG DYVI DELTA
ENGINEERS PARSONS/SMITH

Drilling Mud Properties Record

MUD SYSTEM GEL/LIGNO

Day No.	DATE	DEPTH (FEET ☐ METERS ☒)	DENSITY PPG ☐ SG ☒	VISCOSITY sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.	GELS 0/10	FLUID LOSS 30 Min cc's	CAKE 32 nds	H.T.H.P. cc's	pH	Cl⁻ ppm x1000	Ca ++ ppm	Pf	% OIL	% SOLIDS	% SAND	BENTONITE #/BBL	EXCESS GYP	POLYMER #/BBL	"N"	"K"	OPERATION REMARKS
99	24.3	4172	1.96	74	44.5	35	19	7/43	4.2	1	18	11.2	18.5	200	.6	–	31	1	15					
100	25.3	4172	1.96	72	41	33	16	6/32	4.2	1	18	11.2	18.5	200	.6	–	31	1	15					
101	26.3	4172	1.96	76	45	36	18	9/45	4.2	1	17	11.2	18.5	240	.6	–	31	1	15					
102	27.3	4172	1.96	82	43.5	35	17	7/38	4.2	1	17	11	18.5	240	.5	–	31	1	15					
103	28.3	4170	1.96	78	41	32	18	9/44	4.4	1	18	10.8	18.5	200	.4		31	1	15					
104	29.3	4170	1.96	78	42.5	33	19	9/58	4.9	1	18	12.1	18.5	480	1.2		31	3/4	15					
105	30.3	4170	1.94	69	39.5	32	15	6/38	5.0	1	19	11.7	18.5	480	1.6		31	½	15					
106	31.3	4170	1.94	59	32	26	12	3/34	5.0	1	20	11.7	18.5	360	1.6		31	½	15					
107	1.4	4170	1.94	67	31.5	26	11	3/35	5.2	1	20	11.6	18.5	360	1.5		31	½	15					
108	2.4	4170	1.85	56	32	28	8	3/24	5.0	1	19	11.7	18	140	1.2		29	½	15					
109	3.4	4170	1.85	67	31	27	8	3/14	5.8	1	19	11.7	18	220	1.3		29	½	15					
110	4.4	4170	1.85	62	30	26	8	3/14	5.8	1	19	11.6	18	240	1.3		29	½	15					
111	5.4	4170	1.85	63	30	26	8	3/14	5.8	1	19	11.65	18	240	1.3		29	½	15					
112	6.4	4170	1.85	56	26.5	23	7	3/12	5.4	1	18.5	11.7	18.5	250	1.1		29	½	15					

REMARKS

ANCHOR DRILLING FLUIDS AS
OSLO — STAVANGER

WELL N 30/2-2 AREA NORTH SEA NORWAY
OPERATOR STATOIL RIG DYVI DELTA
ENGINEERS SMITH/SUNDE

Drilling Mud Properties Record

MUD SYSTEM GEL/LIGNO/LIGNITE

Day No.	DATE	DEPTH FEET ☐ METERS ☒	DENSITY PPG ☐ SG ☒	VISCOSITY sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.	GELS 0 / 10	FLUID LOSS 30 Min cc's	CAKE 32 nds	H.T.H.P. cc's	pH	Cl⁻ ppm x1000	Ca ++ ppm	Pf	% OIL	% SOLIDS	% SAND	BENTONITE #/BBL	EXCESS GYP	POLYMER #/BBL	"N"	"K"	OPERATION REMARKS
113	7.4	4170	1.85	48	26.5	23	7	3/4	4.8	2	11	10.85	17	140	1.8	Tr	29	0.5	18					
114	8.4	4170	1.85	45	25	23	4	2/7	6.6	2	13.5	10.4	15	150	1.7	Tr	29	0.5	23.5					
115	9.4	4170	1.85	46	27	25	4	2/7	6.4	2	13.0	10.8	15	140	1.6	Tr	28	0.5	23.5					
116	10.4	4170	1.85	48	27	25	4	2/7	6.4	2	13.0	10.7	15	140	1.6	Tr	28	0.5	23.5					
117	11.4	4170	1.85	54	27.5	25	5	3/12	6.8	2	10.5	10.5	15	160	1.3	Tr	29	0.5	23.5					
118	12.4	4053	1.85	56	30	27	6	4/22	6.8	2	24	11.6	12.5	260	1.7	Tr	29	1.5	25					
119	13.4	4053	1.85	60	32.5	29	7	4/26	5.6	2	22	11.6	12.5	280	1.5	Tr	29	2	24.5					
120	14.4	4053	1.85	65	32	29	6	4/23	6.8	2	25	11.6	12.5	280	1.4	Tr	29	2	24.5					
121	15.4	4053	1.85	59	28	26	4	4/22	6.4	2	24	11.55	12.5	280	1.3	Tr	29	2	24					
122	16.4	4053	1.85	61	29.5	27	5	4/22	6.5	2	24	11.6	12.5	280	1.3	Tr	29	2	24					
123	17.4	4053	1.85	60	28.5	26	5	4/25	6.7	2	26	11.55	12.5	280	1.3	Tr	29	2	23.5					
124	18.4	4053	1.85	59	27	25	4	4/27	6.4	2	26	11.55	12.5	320	1.15	Tr	29	2.5	23					
125	19.4	4053	1.85	58	26	24	6	4/33	7.2	2	28	11.5	12.5	240	1.0	Tr	29	0.5	23					
126	20.4	3990	1.85	65	30	27	6	9/45	7.2	2	28	11.8	12.5	320	1.0	Tr	29	0.5	23					

REMARKS

ANCHOR DRILLING FLUIDS AS
OSLO — STAVANGER

WELL NA. 30/2-2 AREA NORTH SEA NORWAY
OPERATOR STATOIL RIG DYVI DELTA
ENGINEERS SUNDE

Drilling Mud Properties Record

MUD SYSTEM GEL/LIGNO/LIGNITE

Day No.	DATE	DEPTH (FEET ☐ METERS ☒)	DENSITY PPG ☐ SG ☒	VISCOSITY sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.	GELS 0 / 10	FLUID LOSS 30 Min cc's	CAKE 32 nds	H.T.H.P. cc's	pH	Filtrate Analysis Cl⁻ ppm	Ca ++ ppm	Pf	RETORT % OIL	% SOLIDS	% SAND	BENTONITE #/BBL	EXCESS GYP	POLYMER #/BBL	"N"	"K"	OPERATION REMARKS
127	21.4	3990	1.85	58	26.5	24	5	4/32	6.4	2	26	11.3	12500	200	1.0	Tr	29	0.5	22.5					
128	22.4	3990	1.85	58	26.5	24	5	4/30	6.5	2	26	11.4	12500	200	1.0	Tr	28	0.5	22.5					
129	23.4	3990	1.85	58	26.5	24	5	4/32	6.5	2	26	11.4	12500	200	1.0	Tr	28	0.5	22.5					
130	24.4	3990	1.85	58	26.5	24	5	4/30	6.6	2	26	11.4	12500	200	1.0	Tr	28	0.5	22.5					
131	25.4	3990	1.85	68	34	30	8	8/42	6.0	2	–	11.8	13K	220	[illegible].8	Tr	28	0.5	22.5					
132	26.4	3853	1.85	69	33	26	14	7/44	6.8	2	–	11.7	13K	360	1.6	Tr	29	0.5	20					
133	27.4	3853	1.85	71	34	28	12	9/48	6.8	2	–	11.8	13K	360	1.5	Tr	28	0.5	20					
134	28.4	3686	1.85	65	33	28	10	7/42	6.8	2	–	11.9	13K	400	1.6	Tr	28	0.5	20					
135	29.4	2176	1.1	64	31	26	10	7/48	6.8	2	–	12	13K	400	1.5	Tr	28	0.5	20					
136	30.4	2176	1.84	68	29.5	24	11	5/41	6.6	2	–	11.8	14K	680	1.3	–	28	Tr	20					
137	1.5	956	1.55	38	23	20	6	3/14	N/C	–	–	10.3	18K	420	1.1	–	18	–	15					
138	2.5	430	SEA WATER																					

REMARKS