

OPERATOR STATOIL

WELL NO. 34/10-18

MATERIAL CONSUMPTION & COST ANALYSIS

36" HOLE DRILLED TO 228 Meters Feet 30" CASING SET AT 226 Meters Feet

ACTUAL AMOUNT OF HOLE DRILLED 65 Meters Feet DAYS ON INTERVAL 2

DRILLING FLUID SYSTEM SPUD MUD

MATERIAL	UNIT SIZE	PROG.	USED	VARIANCE ±	US\$ COST
BENTONITE	M/T	25	16	- 9	6,080.00
CAUSTIC	25 KG	25	6	-19	120.00
SPERCELL C	25 KG	-	4	+ 4	78.00
SODA ASH	50 KG	4	-	- 4	-

COST/DAY US\$3,139.00 TOTAL COST FOR INTERVAL US\$ 6,278.00
COST/Mt. ~~FEET~~ US\$ 96.58 PROG. COST FOR INTERVAL US\$ 10,084.00
ENGR. COST US\$ 1,650.00 COST VARIANCE FOR INTERVAL US\$ -3,806.00

OPERATOR STATOIL

WELL NO. 34/10-18

MATERIAL CONSUMPTION & COST ANALYSIS

26" HOLE DRILLED TO 765 ^{Meters} ~~XXXX~~ 20 CASING SET AT 747 ^{Meters} ~~XXXX~~

ACTUAL AMOUNT OF HOLE DRILLED 538 ^{Meters} ~~XXXX~~ DAYS ON INTERVAL 8

DRILLING FLUID SYSTEM SPUD MUD

MATERIAL	UNIT SIZE	PROG.	USED	VARIANCE ±	US\$ COST
BARITE	M/T	175	283	+ 108	41,884.00
BENTONITE	M/T	70	107	+ 37	40,660.00
CAUSTIC SODA	25 KG	40	70	+ 30	1,400.00
SODA ASH	50 KG	8	3	- 5	61.00
DRILLING DETERGENT	200 L DRUM	3	0	- 3	-
SPERCELL C	25 KG	20	12	- 8	234.00
CMC HIVIS	25 KG	0	17	+ 17	1,139.00
MICA F	25 KG	0	100	+ 100	2,200.00
MICA C	25 KG	0	25	+ 25	550.00
NUT PLUG F	25 KG	0	40	+ 40	880.00
NUT PLUG C	25 KG	0	20	+ 20	440.00
DESCO	25 LBS	0	4	+ 4	152.00
SOD. BICARBONATE	50 KG	0	3	+ 3	72.00
NB: LOST CIRCULATION IN THIS SECTION					

COST/DAY	US\$11,209.00	TOTAL COST FOR INTERVAL	US\$ 89,672.00
COST/Mt. XXXX	US\$ 166.68	PROG. COST FOR INTERVAL	US\$ 55,343.00
ENGR. COST	US\$6,600.00	COST VARIANCE FOR INTERVAL	US\$+34,329.00

OPERATOR STATOIL

WELL NO. 34/10-18

MATERIAL CONSUMPTION & COST ANALYSIS

17 1/2" HOLE DRILLED TO 2024 Meters 13 3/8" Meters CASING SET AT 2008 Meters

ACTUAL AMOUNT OF HOLE DRILLED 1259 Meters DAYS ON INTERVAL 13

DRILLING FLUID SYSTEM GEL/ SPERCELL C

MATERIAL	UNIT SIZE	PROG.	USED	VARIANCE ±	US\$ COST
BARITE	M/T	465	308	- 157	45,584.00
BENTONITE	M/T	40	61	- 21	23,180.00
SPERCELL C	25 KG	512	433	- 79	8,443.50
CAUSTIC SODA	25 KG	90	243	+ 153	4,860.00
SODA ASH	50 KG	10	13	+ 16	273.00
CMC LOVIS	25 KG	128	173	+ 45	11,245.00
DRILLING DETERGENT	200 LIT	25	0	- 25	0
DESCO	25 LBS	0	36	+ 36	1,368.00
BENTONITE SXS	50 KG	0	115	+ 115	2,070.00
SODIUM BICARB.	50 KG	0	76	+ 76	1,824.00
CMC HIVIS	25 KG	0	43	+ 43	2,881.00
DEFOAMER	25 LTR	0	2	+ 2	236.00

COST/DAY **US\$ 7,843.42** TOTAL COST FOR INTERVAL **US\$ 101,964.50**

COST/Mt. ~~2024~~ **US\$ 80.98** PROG. COST FOR INTERVAL **US\$ 116,709.00**

ENGR. COST **US\$ 10,725.00** COST VARIANCE FOR INTERVAL **US\$ -14,744.05**

OPERATOR STATOIL

WELL NO. 34/10-18

MATERIAL CONSUMPTION & COST ANALYSIS

NO CASING SET

12 1/4" HOLE DRILLED TO 3025 Meters
FEMEX CASING SET AT Meters
Feet

ACTUAL AMOUNT OF HOLE DRILLED 1001 Meters
FEMEX DAYS ON INTERVAL 22

DRILLING FLUID SYSTEM GEL/SPERCELL C

MATERIAL	UNIT SIZE	PROG.	USED	VARIANCE ±	US\$ COST
BARITE	M/T	270	584	+ 314	86,432.00
BULK BENTONITE	M/T	13	19	+ 6	7,220.00
SPERCELL C (LIGNO)	25 KG	250	379	+ 129	7,390.50
CAUSTIC SODA	25 KG	90	194	+ 104	5,880.00
CMC LOVIS	25 KG	140	90	- 50	5,850.00
SODA ASH	50 KG	20	29	+ 9	609.00
BICARBONATE	50 KG	20	44	+ 24	1,056.00
DESCO	25 LBS	0	85	+ 67	3,230.00
CMC HIVIS	25 KG	0	22	+ 22	1,474.00
DEFOAMER	25 LTR	0	1	+ 1	118.00

COST/DAY **US\$5,329.98** TOTAL COST FOR INTERVAL **US\$ 117,259.50**

COST/Mt. ~~OPR~~ **US\$ 117.14** PROG. COST FOR INTERVAL **US\$ 61,575.00**

ENGR. COST **US\$ 17,050.00** COST VARIANCE FOR INTERVAL **US\$ +55,684.50**

OPERATOR STATOIL

WELL NO. 34/10-18

TOTAL CONSUMPTION & COST ANALYSIS

TOTAL DEPTH Meters
~~Feet~~

TOTAL HOLE DRILLED Meters
~~Feet~~

TOTAL DAYS

MATERIAL	UNIT SIZE	PROG.	USED	VARIANCE ±	US\$ COST
BARITE	M/T	1210	1175	- 35	173,900.00
BENTONITE	M/T	168	203	+ 35	77,140.00
BENTONITE	50 KG	-	115	+115	2,070.00
SPERCELL C	25 KG	1062	828	-234	16,146.00
DESCO	25 LBS	-	125	+125	4,750.00
CMC HIVIS	25 KG	20	82	+ 62	5,494.00
CMC LOVIS	25 KG	368	263	-105	17,095.00
CAUSTIC SODA	25 KG	350	513	+163	10,260.00
SOD. BICARBONATE	50 KG	45	123	+ 78	2,952.00
SODA ASH	50 KG	67	45	- 22	945.00
MICA F/C	25 KG	-	100/25	+100/25	2,750.00
NUT PLUG F/C	25 KG	-	40/20	+ 40/20	1,320.00
DEFOAMER	25 LTR	-	3	+ 3	354.00
ANCO DETERGENT	200 LTR	28	-	- 28	-

COST/DAY

TOTAL COST FOR INTERVAL

COST/Mt. ~~Feet~~

PROG. COST FOR INTERVAL

ENGR. COST

COST VARIANCE FOR INTERVAL



ANCHOR DRILLING FLUIDS AS

OSLO - STAVANGER

WELL NAME 34/10-18 AREA NORTH SEA

OPERATOR STATOIL RIG. ROSS ISLE

ENGINEERS CHAVEZ/LAURITZEN/KORSVOLD/WLIK

Drilling Fluid & Material Consumption Report

MUD SYSTEM SPUD MUD - SPERCELL C/CMC

Day No.	DATE	ESTIMATED DAILY MUD VOLUMES			BULK MATERIALS			SACK MATERIALS		MATERIALS ADDED TO CONTROL PROPERTIES																	
		LOSSES SUB SURFACE	LOSSES SURFACE	VOLUME MUD BUILT	BARITE	BENTONITE	BENTONITE BKS	SPERCELL C	THINNERS	POLYMERS			OTHERS														
1983									DESCO	CMC HV	CMC LOVIS		CAUSTIC SODA	BICARB.	SODA ASH	DRILLING DETERGENT	MICA	NUT	PLUG	DEFOAMER	LIT						
1	16.07			2240	0	16								4													
2	17.07	170		200				4						2													
3	18.07		210	899		8			4				5	3													
4	19.07	0	275	811	1	9		4					11		1												
5	20.07		754	945	22	7		2		4			5														
6	21.07		973	1300	54	11				10			15		2							100	40				
7	22.07	643	120	700	116	7		6		3			17								25	20					
8	23.07	75	2314	1800		5							3														
9	24.07	4735		3750	15	23							8														
10	25.07	0	200	854	75	37							6														
11	26.07	10	687	716	0	8		80	4	23	21		14	8													
12	27.07		918	1467	17	18	55	47		5	32		41	3										25			
13	28.07			1506	0	18		38		8	12		59	1										25			
FORWARD																											
ESTIMATED TOTALS		5633	4935	17188	300	167	55	181	8	53	65		190	15	3			100	40		25	25	50				
REMARKS:																											



ANCHOR DRILLING FLUIDS AS

OSLO — STAVANGER

WELL NAME 34/10-18

AREA NORTH SEA

OPERATOR STATOIL

RIG ROSS ISLE

ENGINEERS LAURITZEN/WI IK/KORSVOLD/CHAVEZ

Drilling Fluid & Material Consumption Report

GEL/SPERCELL 'C/CMC

MUD SYSTEM

Day No.	DATE	ESTIMATED DAILY MUD VOLUMES			BULK MATERIALS			SACK MATERIALS			MATERIALS ADDED TO CONTROL PROPERTIES													
		LOSSES SUB SURFACE	LOSSES SURFACE	VOLUME MUD BUILT	BARITE	BENTONITE	BENTONITE SPS		SPERCELL C	THINNERS		POLYMERS		CAUSTIC SODA	BICARB.	SODA ASH	DRILLING DETERGENT	MICA	OTHERS	NUT	PLUG	DEFOAMER	Lit	
	1983																							
14	29.07		254	390	2	5	60		59				10		19									
15	30.07		748	650	13				9			7		32		50								
16	31.07		50	524	93	7			60				3		17									
17	01.08		648	230	71	2			38		1				13									
18	02.08		38	160					8		1				3	4								
19	03.08		170	262	16				12		9				8	3								
20	04.08		211	340	12				25		13			8		15	17							
21	05.08		783	750	31				19		8			39			40							
22	06.08		336	290	22				23					15		9								
23	07.08		280	440	31	3			15				1		4	4								
24	08.08		169	63					8		5	2				7								
25	09.08		322	360	43				26		13	17		17		18	3							
26	10.08		451	645	190				68		64			10		22	2	26						
27	11.08		475	343	24				12		3			4		9	6							
FORWARD			5633	4935	17188	300	167	55	181		8	53		65		190	15	3			100	40		
ESTIMATED TOTALS			5653	9870	22635	848	184	115	563		125	79		204		350	112	45			100	40	20	50

REMARKS:



ANCHOR DRILLING FLUIDS AS

OSLO - STAVANGER

WELL NAME 34/10-18

AREA NORTH SEA

OPERATOR STATOIL

RIG ROSS ISLE

ENGINEERS CHAVEZ/KORSVOLD/LAURITZEN/WIIK

Drilling Fluid & Material Consumption Report

GEL/SPERCELL C/CMC

MUD SYSTEM

Day No.	DATE	ESTIMATED DAILY MUD VOLUMES			BULK MATERIALS			SACK MATERIALS		MATERIALS ADDED TO CONTROL PROPERTIES																												
		LOSSES SUB SURFACE	LOSSES SURFACE	VOLUME MUD BUILT	BARITE	BENTONITE	BENTONITE SXS	SPERCELL C	THINNERS			POLYMERS			OTHERS																							
									DESCO	CMC HV	CMC LOVIS	CAUSTIC SODA	BICARB.	SODA ASH	DRILLING DETERGENT	MICA	NUT	FLUG	DEFOAMER	Lit																		
28	12.08	0	272	385	11	2		12					4			16																						
29	13.08	0	167	119	30			28						4			14																					
30	14.08	80	84	255	62	2		23					7			15																25						
31	15.08	26	746	309	48			13				1		7		21																						
32	16.08		250	39	6	6		5				2		1		3																						
33	17.08		383	400	21	2		16				0		5		19																						
34	18.08		369	208	11	2		30				0		24		9																						
35	19.08		366	466	74	2		16						3		7																						
36	20.08		85	220	30			35								16																						
37	21.08		234	223	19	2		46						4		18																						
38	22.08		239	145	6			10								13																						
39	23.08		537	124	2			10								12																						
40	24.08																																					
41	25.08																																					
FORWARD		5653	9870	22635	848	184	115		563		125		79		204		350	112	45				100			40												
ESTIMATED TOTALS		5687	13602	25528	11168	202	115		807		125		82		263		513	112	45				100			40												

REMARKS:



ANCHOR DRILLING FLUIDS AS

OSLO - STAVANGER

WELL NAME 34/10-18 AREA NORTH SEA

OPERATOR STATOIL RIG. ROSS ISLE

ENGINEERS LAURITZEN/ WIIK

Drilling Fluid & Material Consumption Report

MUD SYSTEM SPECCEL C/GEL

Day No.	DATE	ESTIMATED DAILY MUD VOLUMES			BULK MATERIALS		SACK MATERIALS		MATERIALS ADDED TO CONTROL PROPERTIES															
		LOSSES SUB SURFACE	LOSSES SURFACE	VOLUME MUD BUILT	BARITE	BENTONITE	BENTONITE SXS	SPECCEL C	THINNERS			POLYMERS			OTHERS									
									DESCO	CMC HV	CMC LOVIS		CAUSTIC SODA	BICARB.	SODA ASH	DRILLING DETERGENT	MICA	NUT PLUG	DEFOAMER Lit					
42	26.08		260					21																
43	27.08		333		7	1																		
44	28.08			114																				
45	29.08		dump 926																					
FORWARD		5687	13602	25528	11168	202	115	807	125	82	263		513	112	45		100 25	40 20	75					
ESTIMATED TOTALS		5687	15121	25642	11175	203	115	828	125	82	263		513	123	45		100 25	40 20	75					

REMARKS:



ANCHOR DRILLING FLUIDS AS

OSLO - STAVANGER

WELL NAME 34/10-18

AREA NORTH SEA

OPERATOR STATOIL

RIG. ROSS ISLE

ENGINEERS CHAVEZ/LAURITZEN

Drilling Mud Properties Record

MUD SYSTEM SPERCELL C/SPUD MUD

Day No.	DATE	DEPTH FEET <input type="checkbox"/> METERS <input type="checkbox"/> METER	MUD PROPERTIES																	OPERATION REMARKS					
			SG DENSITY PPG <input type="checkbox"/> SG <input type="checkbox"/>		VISCOSITY				GELS 0	FLUID LOSS 30 Min cc's	CAKE 32 nds	H.T.H.P. cc's	PH	Filtrate Analysis			RETORT		BENTONITE #/BBL		POTASH #/BBL	POLYMER #/BBL	"N"	"K"	
					sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.						T.H.	Ca. ++ ppm	PI	% OIL	% SOLIDS							% SAND
			10	1000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		10	10	10	10	
1	16/ 7		1.04	100																					
2	17/ 7		1.05	61	29.0	9.0	40.0	2	8	17.0	2	10.0	4	240	.10		5.00		25.00				.24	12.24	
3	18/ 7	610	1.11	43	22.0	8.0	28.0	19	23			9.0											.29	6.91	
4	19/ 7	765	1.09	45	22.0	7.0	30.0	20	28			9.5	9	.10									.25	8.90	
5	20/ 7	420	1.12	38	21.0	9.0	24.0	14	18			9.5	8	.10									.35	4.54	
6	21/ 7	647	1.13	47	27.0	9.0	36.0	22	27			9.0											.26	10.05	
7	22/ 7	765	1.12	42	22.0	8.0	28.0	19	31			9.0											.29	6.91	
8	23/ 7	765	1.10	40	22.0	8.0	28.0	15	31			9.0											.29	6.91	
9	24/ 7		1.25	45	19.0	10.0	18.0	2	20			9.0											.44	2.27	
10	25/ 7		1.05	72	29.5	9.0	4.0	12	19	16.0	1	10.5	2	200	.30		4.00		27.00				.76	.17	
11	26/ 7	770	1.08	44	24.0	9.0	10.0	2	16	14.0	1	10.8	12	480	.70		5.00		22.50				.56	.78	
12	27/ 7	1111	1.09	53	22.5	15.0	15.0	6	36	14.0	2	10.8	12	240	.30		6.00	.25	20.00				.58	1.07	
13	28/ 7	1495	1.09	54	23.0	15.0	15.0			10.0	1	10.0	13	300	.10		5.00	.25	25.00				.58	1.07	
14	29/ 7	1772	1.11	62	22.0	13.0	18.0	16	42	18.0	2	8.5	14	920	.05		6.00	.25	25.00				.50	1.74	

REMARKS



ANCHOR DRILLING FLUIDS AS

OSLO - STAVANGER

Drilling Mud Properties Record

MUD SYSTEM CMC/GEL/ SPERCELL C

WELL NAME 34/10-18 AREA NORTH SEA
 OPERATOR STATOIL RIG. ROSS ISLE
 ENGINEERS LAURITZEN/WIIK/KORSVOLD

Day No.	DATE	DEPTH	MUD PROPERTIES																		OPERATION REMARKS						
			FEET																								
			METERS																								
			METER																								
1983		SG	DENSITY PPG	SG	VISCOSITY				GELS		Filtrate Analysis					RETORT											
					Sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.	0	10	FLUID LOSS 30 Min cc's	CAKE 32 rds	H.T.H.P. cc's	pH	CT ppm	Ca. ++ ppm	PT	% OIL	% SOLIDS	% SAND	BENTONITE #/BBL	POTASH #/BBL	POLYMER #/BBL	"N"	"K"		
15	30/ 7	1932	1.18	68	25.5	15.0	21.0	18/48	16.0	2	10.4	15	360	.15				6.00		29.00			.50	2.05			
16	31/ 7	2000	1.32	70	28.0	17.0	22.0	20/54	16.0	2	9.8	16	400	.10				12.00		99.00			.52	1.99			
17	1/ 8		1.32	64	26.0	21.0	10.0	18/54	17.0	2	10.1	17	500	.10				12.00		25.00			.75	.44			
18	2/ 8	2000	1.32	60	31.5	18.0	27.0	18/60	17.0	2	9.6	16	500	.10						27.00			.49	2.83			
19	3/ 8	1903	1.32	54	17.5	12.0	11.0	7/32	19.0	2	10.3	16	380	.15				12.00	.25	27.00			.61	.73			
20	4/ 8	1912	1.32	58	24.0	14.0	20.0	15/50	19.0	2	11.0	17	400	.20				12.00	.25	28.00			.50	1.99			
21	5/ 8	1944	1.32	43	19.0	12.0	14.0	22/52	19.5	2	11.5	18	260	.25				12.00		27.00			.55	1.15			
22	6/ 8	2024	1.32	52	22.0	14.0	16.0	16/80	15.0	2	11.0	19	400	.20				12.00		27.00			.55	1.29			
23	7/ 8	2008	1.32	59	26.0	15.0	22.0	30/80	16.0	2	11.0	19	500	.20				12.00		26.00			.49	2.25			
24	8/ 8	2027	1.32	48	19.0	14.0	10.0	4/31	13.0	2	10.7	19	180	.20				11.00					.66	.55			
25	9/ 8	2196	1.45	54	27.5	19.0	17.0	7/46	8.4	2	9.9	20	320	.15				16.00					.61	1.10			
26	10/ 8		1.65	50	26.5	19.0	15.0	5/37	8.8	1	10.3	21	140	.50				22.00	.25	27.00			.64	.88			
27	11/ 8		1.65	63	31.0	23.0	16.0	13/50	8.8		10.2	20	100	.40				22.00	.25	27.50			.67	.86			
28	12/ 8		1.65	58	29.0	21.0	16.0	5/40	7.8	2	10.4	18	120	.45				22.50		27.50			.65	.92			
REMARKS																											



ANCHOR DRILLING FLUIDS AS

OSLO - STAVANGER

WELL NAME 34/10-18 AREA NORTH SEA
 OPERATOR STATOIL RIG. ROSS ISLE
 ENGINEERS CHAVEZ/KORSVOLD

Drilling Mud Properties Record
 MUD SYSTEM CMC/GEL/SPERCELL C

Day No.	DATE	DEPTH FEET <input type="checkbox"/> METERS <input type="checkbox"/> METER	MUD PROPERTIES																		OPERATION REMARKS				
			DENSITY PPG <input type="checkbox"/> SG <input type="checkbox"/>		VISCOSITY				GELS 0	FLUID LOSS 30 Min cc's	CAKE 32 nds	H.T.H.P. cc's	PH	Filtrate Analysis			RETORT		BENTONITE #/BBL	POTASH #/BBL		POLYMER #/BBL	"N"	"K"	
					sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.						T.H.			% OIL	% SOLIDS							% SAND
			10	1000	Ca. ++ ppm	PI	CORR.																		
29	13/ 8		1.65	55	27.0	19.0	15.0	4	40	8.8	1		10.5	18	80	.60		22.00	.25	27.50			.64	.88	
30	14/ 8		1.65	53	27.0	19.0	16.0	3	40	9.5	2		10.5	20	60	.55		22.00		25.00			.63	.99	
31	15/ 8		1.65	52	26.0	19.0	14.0	4	32	10.0	2		10.7	19		.60		22.00	.25				.66	.78	
32	16/ 8		1.65	52	23.5	17.0	13.0	3	25	10.0	2		10.5	17		.45		21.00		22.50			.65	.75	
33	17/ 8		1.58	48	28.0	17.0	12.0	3	34				10.8	17	80	.52		20.00		25.00			.67	.65	
34	18/ 8		1.58	53	29.5	21.0	17.0	3	37	8.5	2		10.8	17	100	.55		19.00	.25	2.50			.63	1.02	
35	19/ 8		1.58	49	30.5	21.0	19.0	3	30	8.8	2		10.8	18	80	.30		19.00		20.00			.61	1.24	
36	20/ 8		1.58	47	31.5	22.0	19.0	3	35	9.0	1		10.8	18	100	.40		19.00		20.00			.62	1.20	
37	21/ 8		1.58	47	27.0	20.0	14.0	3	32	9.0	1	16.0	10.8	175	80	.40		19.00		22.50			.67	.76	
38	22/ 8		1.58	47	27.0	20.0	14.0	2	28	9.6	1	15.0	10.5	18	80	.40		20.00		20.00			.67	.76	
39	23/ 8		1.58	47	27.5	20.0	15.0	3	29	9.0	1	15.8	10.9	17	80	.45		20.00		20.00			.65	.85	
40	24/ 8		1.58	59	26.5	19.0	15.0	3	28	9.0	1	15.0	10.4	18	80	.30		20.00		20.00			.64	.88	
41	25/ 8		1.58	57	33.5	23.0	19.0	1	37	9.8	1		9.8	18	80	.40		20.00		20.00			.63	1.16	
42	26/ 8		1.58	60	38.0	25.0	16.0	6	56	11.8	2		11.4	18	150	1.20		20.00		20.00			.69	.82	
REMARKS																									

