







OPERATOR A/S NORSKE SHELL

WELL NO. 31/2-10

# MATERIAL CONSUMPTION & COST ANALYSIS

12 1/4" HOLE DRILLED TO 1833 Meters Feet - CASING SET AT - Meters Feet  
 8 1/2" ACTUAL AMOUNT OF HOLE DRILLED 303 Meters Feet DAYS ON INTERVAL 14

DRILLING FLUID SYSTEM

SEAWATER/DRISPAC

MATERIAL	UNIT SIZE	PROG.	USED	VARIANCE ±	COST
BARITE	MT	100	36	- 64	4.824,-
BENTONITE	MT	0	0	0	-
BENTONITE	50 kg	220	0	- 220	-
CAUSTIC SODA	25 kg	70	36	- 34	684,-
SODA ASH	50 kg	4	18	+ 14	333,-
LF-5	25 kg	50	74	+ 24	3.552,-
CMC LOVIS	25 kg	25	55	+ 30	3.245,-
DRISPAC REGULAR	50 lbs	60	51	- 9	8.634,30
LIGNO	25 kg	175	0	- 175	-
XC-POLYMER	50 lbs	15	0	- 15	-
DRILLING DETERGENT	200 l.	10	0	- 10	-

COST/DAY US\$ 1.519,45 TOTAL COST FOR INTERVAL US\$ 21.272,30  
 COST/Mt. ~~of~~ US\$ 70.21 PROG. COST FOR INTERVAL US\$ 44.221,-  
 ENGR. COST COST VARIANCE FOR INTERVAL US\$ -22.948,70

OPERATOR A/S NORSKE SHELL

WELL NO. 31/2-10

# TOTAL CONSUMPTION & COST ANALYSIS

TOTAL DEPTH  Meters  
~~Feet~~

TOTAL HOLE DRILLED  Meters  
~~Feet~~

TOTAL DAYS

MATERIAL	UNIT SIZE	PROG.	USED	VARIANCE ±	COST
BARITE	MT	305	278	- 27	US\$ 37.252,-
BENTONITE	MT	65	50	- 15	16.400,-
BENTONITE	50 kg	220	0	- 220	-
CAUSTIC SODA	25 kg	255	140	- 115	2.660,-
SODA ASH	50 kg	45	96	+ 51	1.776,-
LIME	25 kg	6	0	- 6	-
KCl brine	bbls	0	1408	+ 1408	30.835,20
KCl sxs	50 kg	954	73	- 881	1.306,70
ANCOPOL	25 kg	85	68	- 17	10.064,-
DRILLING DETERGENT	200 l.	25	0	- 25	-
LF-5	25 kg	274	191	- 83	9.168,-
CMC LOVIS	25 kg	106	113	+ 7	6.667,-
LIGNO	25 kg	175	0	- 175	-
DRISPAC REGULAR	50 lbs	150	133	- 17	22.516,90
XC-POLYMER	50 lbs	15	0	- 15	-
CALCIUM CHLORIDE	50 kg	0	84	+ 84	1.932,-

COST/DAY

TOTAL COST FOR WELL

COST/Mt

PROG. COST FOR WELL

ENGR. COST

COST VARIANCE FOR WELL







# ANCHOR DRILLING FLUIDS AS

OSLO — STAVANGER

WELL NAME 31/2-10 AREA NORTH SEA NORWAY  
 OPERATOR A/S NORSKE SHELL RIG. BORGNY DOLPHIN  
 ENGINEERS C. BLANCHARD

## Drilling Mud Properties Record

MUD SYSTEM GEL/SEAWATER (SPUD MUD) - KCl/POLYMER

Day No.	DATE	DEPTH FEET <input type="checkbox"/> METERS <input checked="" type="checkbox"/>	MUD PROPERTIES																	OPERATION REMARKS					
			DENSITY PPG <input type="checkbox"/> SG <input checked="" type="checkbox"/>	VISCOSITY				GELS 0	FLUID LOSS 30 Min cc's	CAKE 32 nds	HTHP 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						Ca ++ ppm	PI	% OIL	% SOLIDS	% SAND								
1	1.10																								
2	2.10	470	1.06	100+																					
3	3.10	474	1.06	70+																					
4	4.10	704	1.06	55	40	10	60																		
5	5.10	812	1.08	70																					
6	6.10	787	1.06	100+																					
7	7.10				PREPARED				NEW	KCl	MUD														
8	8.10	810	1.26	50	32.5	22	21	2	5.0	1	11.5	74	200	4.5	11		42		0.59	1.0					
9	9.10	810	1.26	52	32.5	22	21	2	5.0	1	11.5	74	200	2.8	11		42		0.59	1.0					
10	10.10	1250	1.29	48	36	26	20	2	4.7	1	10.0	68	240	4.5	13		10	39	0.62	0.98					
11	11.10	1530	1.35	58	45	35	20	6	6.0	1	10.4	62	320	2.5	14		21	35	0.7	0.69					
12	12.10	1530	1.36	47	37	30	14	4	6.0	1	10.2	64	320	0.2	15		23	35	0.74	0.43					
13	13.10	1530	1.35	51	37	30	14	3	6.0	1	10.1	64	340	0.2	15		24	35	0.7	0.4					
14	14.10	1575	1.17	47	31.5	21	21	3	4.2	1	11.0	38	120	0.5	10		12		0.59	1.2					

REMARKS





# ANCHOR DRILLING FLUIDS AS

OSLO - STAVANGER

WELL NAME 31/2-10 AREA NORTH SEA NORWAY  
 OPERATOR A/S NORSKE SHELL RIG. BORGNY DOLPHIN  
 ENGINEERS CHRIS ATKINSON

Drilling Mud Properties Record  
 MUD SYSTEM SEAWATER/DRISPAC

Day No	DATE	DEPTH FEET METERS	MUD PROPERTIES																		OPERATION REMARKS			
			DENSITY PPG □ SG	VISCOSITY				GELS 0	FLUID LOSS 30 Min cc's	CAKE 32 nds	HTHP. 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						X CL'ppm	Ca ++ ppm	PI	% OIL	% SOLIDS							% SAND
15	15.10	1588	1.17	49	29	20	18	2	3	3.9	1	11.5	38	100	0.6	1.2	10	TR	12.5			0.64	0.95	
16	16.10	1610	1.17	50	29	20	18	2	3	3.9	1	11.5	38	100	0.5	1.05	10	TR	12.5			0.64	0.95	
17	17.10	1637	1.18	50	30.5	21	19	2	3	3.8	1	11.5	38	100	0.4	0.9	10	TR	13			0.63	1.02	
18	18.10	1655	1.18	49	30.5	21	19	2	3	3.9	1	11.5	38	80	0.55	1.15	10	TR	12.5			0.63	1.02	
19	19.10	1663	1.18	49	30	21	18	2	2	3.7	1	11.5	38	80	0.5	1.10	10	TR	12.5			0.62	0.97	
20	20.10	1686	1.18	50	30.5	21	19	2	3	3.6	1	11.5	37.5	80	0.45	1.0	10	1/4	12			0.63	1.02	
21	21.10	1704.5	1.18	50	30	21	18	2	2	3.6	1	11.4	37	80	0.425	0.95	10	1/4	12.5			0.62	0.97	
22	22.10	1706.5	1.18	50	30	21	18	2	2	3.6	1	11.4	37	80	0.425	0.975	10	1/4	12.5			0.62	0.97	
23	23.10	1741.5	1.18	51	30	21	18	2	3	3.6	1	11.4	37	80	0.55	1.15	10	TR	12.5			0.62	0.97	
24	24.10	1833	1.18	50	30	21	18	2	3	3.6	1	11.3	37	80	0.4	0.85	10	TR	12.5			0.65	0.92	
25	25.10	1833	1.18	50	30	21	18	2	3	3.6	1	11.3	37	80	0.4	0.85	10	TR	12.5			0.65	0.92	
26	26.10	1833																						

REMARKS