



SUMMARY OF TEST RESULTS FROM  
MIDDLE JURASSIC "UPPER SANDSTONE MEMBER  
FORMATION H1-4 6407/1-3

Test no.:	1	2
Interval (mRKB):	3697.5-3702.5	3665-3670
Period (Hours)	9.67	9.07
Flowing bottom hole pressure (BAR)	374.6	371.1
Choke (mm)	9.5	19
Temperature (°C)	121.9	131.2
Fluid rate (SM <sup>3</sup> /D)	396.1	191.8
Fluid density (kg/m <sup>3</sup> )	872	780
Gas rate (SM <sup>3</sup> /D)	584300	725400
Relative gas density (Air = 1)	0.665	0.657
Gas/oil ratio (SM <sup>3</sup> /SM <sup>3</sup> )	147.8	3782

WIRELINe FORMATION TESTER

Well: 6407/1 - 3 Run no.: 1

TEMP. CORRECTED RESULTS

Formation: H - 3

TEST NO.	DEPTH mRKB	Hydr. Pressure before test		Formation Pressure		Hydr. Pressure after test		REMARKS
		bar	g/cm <sup>3</sup>	bar	g/cm <sup>3</sup>	bar	g/cm <sup>3</sup>	
1	3465.0	581.8	1.709	530.5	1.558	582.0	1.710	Supercharged
2	3466.0	582.0	1.709	536.0	1.574	582.1	1.710	Supercharged
3	3466.8	581.8	1.708	534.0	1.568	583.4	1.713	Supercharged

WIRELINe FORMATION TESTER

Well: 6407/1 - 3 Run no.: 2

TEMP. CORRECTED RESULTS

Formation: H1 - 4

TEST NO.	DEPTH mRKB	Hydr. Pressure before test		Formation Pressure		Hydr. Pressure after test		REMARKS
		bar	g/cm <sup>3</sup>	bar	g/cm <sup>3</sup>	bar	g/cm <sup>3</sup>	
1	3603.0	426.3	1.204			426.3	1.204	Seal failure
2	3610.0	427.2	1.204	375.8	1.059	427.2	1.204	
3	3616.0	427.8	1.204	375.9	1.057	427.9	1.204	
4	3620.0	428.1	1.203	375.9	1.056	428.2	1.203	
5	3625.0	428.8	1.203	376.1	1.055	428.8	1.203	
6	3635.0	430.0	1.203	376.2	1.053	429.8	1.203	
7	3645.0	430.8	1.202	376.4	1.050	430.9	1.203	
8	3653.0	431.9	1.202	376.7	1.049	431.8	1.202	
9	3658.0	432.3	1.202	376.8	1.047	432.3	1.202	
10	3667.0	433.3	1.202	377.0	1.045	433.4	1.202	
11	3675.0	434.1	1.202	377.1	1.044	434.3	1.202	
12	3681.0	434.8	1.202	377.3	1.042	435.0	1.202	
13	3687.0	435.6	1.202	377.4	1.041	435.7	1.202	

WIRELINE FORMATION TESTER

Well: 6407/1-3 Run no.: 2

TEMP. CORRECTED RESULTS

Formation: H1 - 4

TEST NO.	DEPTH mRKB	Hydr. Pressure before test		Formation Pressure		Hydr. Pressure after test		REMARKS
		bar	g/cm <sup>3</sup>	bar	g/cm <sup>3</sup>	bar	g/cm <sup>3</sup>	
14	3690.0	435.9	1.202	377.6	1.041	435.9	1.202	
15	3695.0	436.5	1.202	377.9	1.040	436.5	1.202	
16	3699.0	436.9	1.202	378.2	1.040	436.9	1.202	
17	3702.0	437.3	1.202	378.4	1.040	437.2	1.202	
18	3706.0	437.7	1.201	379.5	1.042	437.7	1.202	Supercharged
19	3708.5	438.1	1.202	379.4	1.040	438.0	1.202	Supercharged
20	3747.0	442.3	1.201	380.4	1.032	442.3	1.201	Supercharged
21	3756.0	443.4	1.201	380.7	1.031	443.3	1.201	
22	3765.0	444.3	1.201	381.6	1.031	444.3	1.201	
23	3776.0	445.6	1.201	382.7	1.031	445.7	1.201	
24	3787.0	447.0	1.201	383.8	1.031	447.0	1.201	

WIRELINE FORMATION TESTER

Well: 6407/1-3 Run no.: 2

TEMP. CORRECTED RESULTS

Formation: H1 - 2 and H1 - 4 (sampling)

TEST NO.	DEPTH mRKB	Hydr. Pressure before test		Formation Pressure		Hydr. Pressure after test		REMARKS
		bar	g/cm <sup>3</sup>	bar	g/cm <sup>3</sup>	bar	g/cm <sup>3</sup>	
25	3950.5	465.1	1.198			465.0	1.198	Seal failure
26	3950.5	465.3	1.198			465.3	1.198	Tight
27	3695.0	436.8	1.203	378.5	1.042			Sample no. 1
28	3676.2	434.0	1.201	376.9	1.043	434.1	1.201	Sample no. 2 *
29	3692.2	436.0	1.201	377.7	1.040	436.3	1.202	Sample no. 3 *

\* Separate runs

Table 3.3

WIRELINe FORMATION TESTER

Well: 6407/1-3 Run no.: 3

TEMP. CORRECTED RESULTS

Formation: H1 - 2

TEST NO.	DEPTH mRKB	Hydr. Pressure before test		Formation Pressure		Hydr. Pressure after test		REMARKS
		bar	g/cm <sup>3</sup>	bar	g/cm <sup>3</sup>	bar	g/cm <sup>3</sup>	
1	3993.0	528.4	1.347	436.2	1.111	528.7	1.348	Supercharged  Sample no. 4
2	3997.0	529.6	1.349	436.5	1.111	529.8	1.349	
3	4024.0	533.3	1.349	442.3	1.118	533.7	1.350	
4	4023.0	533.1	1.349	439.3	1.111	533.2	1.349	
5	3995.0	528.5	1.346	436.4	1.111	528.7	1.347	
6	3993.1	528.9	1.348	436.3	1.114	529.3	1.349	

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OPERATOR STATOIL

WELL NO. 6407/1-3

# MATERIAL CONSUMPTION & COST ANALYSIS

17 1/2" HOLE DRILLED TO 2300 <sup>Meters</sup> ~~XXX~~ 13 3/8" CASING SET AT 2286 <sup>Meters</sup> ~~XXX~~

ACTUAL AMOUNT OF HOLE DRILLED 1335 <sup>Meters</sup> ~~Feet~~ ~~XXX~~ DAYS ON INTERVAL 12

DRILLING FLUID SYSTEM GYP/LIGNO

MATERIAL	UNIT SIZE	US\$ UNIT PRICE	CONSUMPTION	US\$ COST
BARITE	M/T	148	512	75,776.00
BENTONITE	M/T	380	38	14,440.00
BENTONITE	50 KG	18	33	594.00
SPERCELL C	25 KG	19.50	356	6,942.00
CMC HV	25 KG	67	62	4,154.00
CMC LV	25 KG	65	133	8,645.00
CAUSTIC	25 KG	20	176	3,520.00
SODA ASH	50 KG	21	4	84.00
GYP SUM	40 KG	10.56	451	4,762.50
SODIUM BICARBONATE	50 KG	24	42	1,008.00
SAPP	50 KG	110	5	550.00
DRISPAC REGULAR	25 LBS	154	26	4,004.00

COST/DAY US\$ 10,373.00 COST FOR INTERVAL US\$ 124,479.50  
COST/METER US\$ 93.24

OPERATOR STATOIL

WELL NO. 6407/1-3

# MATERIAL CONSUMPTION & COST ANALYSIS

12 1/4" HOLE DRILLED TO 3608 Meters ~~Feet~~ 9 5/8" CASING SET AT 3595 Meters ~~Feet~~

ACTUAL AMOUNT OF HOLE DRILLED 1308 Meters ~~Feet~~ DAYS ON INTERVAL 38

DRILLING FLUID SYSTEM GYP/LIGNO

MATERIAL	UNIT SIZE	US\$ UNIT PRICE	CONSUMPTION	US\$ COST
BARITE	M/T	148	1120	165,760.00
BENTONITE	M/T	380	2	760.00
BENTONITE	50 KG	18	15	270.00
SPERCELL C	25 KG	19.50	953	18,583.50
DESCO	25 LBS	38	11	418.00
LIGNITE	25 KG	32	48	1,536.00
CMC LV	25 KG	65	215	13,975.00
DRISPAC REGULAR	50 LBS	154	12	1,848.00
CAUSTIC	25 KG	20	266	5,320.00
GYPSUM	40 KG	10.56	137	1,446.50
SODIUM BICARBONATE	50 KG	24	6	144.00
DEFOAMER	25 L	118	8	944.00
EP-17	200 L	870	12	10,440.00

COST/DAY US\$ 5,828.00 COST FOR INTERVAL US\$ 221,445.00  
COST/METER US\$ 169.30

OPERATOR STATOIL

WELL NO. 6407/1-3

# MATERIAL CONSUMPTION & COST ANALYSIS

8 1/2" HOLE DRILLED TO 3976 Meters ~~Feet~~ 7" LINER SET AT 3446-3969 Meters ~~Feet~~

ACTUAL AMOUNT OF HOLE DRILLED 368 Meters ~~Feet~~ DAYS ON INTERVAL 19

DRILLING FLUID SYSTEM GEL/LIGNO

MATERIAL	UNIT SIZE	US\$ UNIT PRICE	CONSUMPTION	US\$ COST
BENTONITE	M/T	380	31	11,780.00
BENTONITE	50 KG	18	49	882.00
SPERCELL C	25 KG	19.50	107	2,086.50
CMC HV	25 KG	67	38	2,546.00
CMC LV	25 KG	65	14	910.00
DRISPAC REGULAR	50 LBS	154	10	1,540.00
CAUSTIC	25 KG	20	69	1,380.00
SODA ASH	50 KG	21	35	735.00
DEFOAMER	25 L	118	23	2,714.00
LIME	25 KG	6.50	4	26.00
SODIUM BICARBONATE	50 KG	24	19	456.00

COST/DAY US\$ 1,319.00 COST FOR INTERVAL US\$ 25,055.50  
COST/METER US\$ 68.09

OPERATOR STATOIL

WELL NO. 6407/1-3

# MATERIAL CONSUMPTION & COST ANALYSIS

6" HOLE DRILLED TO 4469 Meters Feet CASING SET AT Meters Feet  
ACTUAL AMOUNT OF HOLE DRILLED 493 Meters Feet DAYS ON INTERVAL 38\*  
DRILLING FLUID SYSTEM GEL/LIGNO

MATERIAL	UNIT SIZE	US\$ UNIT PRICE	CONSUMPTION	COST
BARITE	M/T	148	302	44,696.00
BENTONITE	M/T	380	11	4,180.00
BENTONITE	50 KG	18	52	936.00
SPERCELL C	25 KG	19.50	141	2,749.50
CMC LV	25 KG	65	79	5,135.00
DRISPAC REGULAR	50 LBS	154	18	2,772.00
DRISPAC SUPERLO	50 LBS	165	3	495.00
CAUSTIC	25 KG	20	50	1,000.00
SODA ASH	50 KG	21	10	210.00
SODIUM BICARBONATE	50 KG	24	51	1,224.00
CaCl <sub>2</sub>	50 KG	30	17	510.00
ALUMINIUM STEARATE	25 KG	89	7	623.00

COST/DAY US\$ 1,698.00\* COST FOR INTERVAL US\$ 64,530.50\*  
COST/ METER US\$ 130.89\*

\* INCLUDING TESTING

OPERATOR STATOIL

WELL NO. 6407/1-3

# TOTAL CONSUMPTION & COST ANALYSIS

TOTAL DEPTH 4469 Meters ~~Feet~~ TOTAL HOLE DRILLED 4154 Meters ~~Feet~~

TOTAL DAYS 119

MATERIAL	UNIT SIZE	US\$ UNIT PRICE	CONSUMPTION	US\$ COST
BARITE	M/T	148	1948	288,304.00
BENTONITE	M/T	380	160	60,800.00
BENTONITE	50 KG	18	149	2,682.00
SPERCELL C	25 KG	19.50	1557	30,361.50
DESCO	25 LBS	38	11	418.00
LIGNITE	25 KG	32	48	1,536.00
CMC HV	25 KG	67	100	6,700.00
CMC LV	25 KG	65	441	28,665.00
DRISPAC REGULAR	50 LBS	154	66	10,164.00
DRISPAC SUPERLO	50 LBS	165	3	495.00
CAUSTIC	25 KG	20	587	11,740.00
SODA ASH	50 KG	21	60	1,260.00
SODIUM BICARBONATE	50 KG	24	118	2,832.00
CaCl <sub>2</sub>	50 KG	30	31	930.00
GYPSUM	40 KG	10.56	588	6,209.00
SAPP	50 KG	110	5	550.00
DEFOAMER	25 L	118	31	3,658.00
EP-17	200 L	870	12	10,440.00
LIME	25 KG	6.50	4	26.00
ALUMINIUM STEAREATE	25 KG	89	7	623.00

COST/DAY US\$ 3,936.00 TOTAL CHEMICAL COSTS US\$ 468,393.50

COST/ METER US\$ 112.75 TOTAL ENGINEERING CHARGES US\$ 89,600.00

TOTAL DRILLING FLUID RELATED COSTS US\$ 557,993.50

WELL NAME 6407/1-3 AREA HALTENBANKEN  
 OPERATOR STATOIL RIG DYVI DELTA  
 ENGINEERS AARSETH/FOLKVORD/SUNDE
**Drilling Mud Properties Record**  
 MUD SYSTEM SPUD MUD

Day No.	DATE	DEPTH FEET <input type="checkbox"/> METERS <input type="checkbox"/>	MUD PROPERTIES																		OPERATION REMARKS		
			SG	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.						Cl <sup>-</sup> ppm	Ca <sup>++</sup> ppm	Pf	% OIL	% SOLIDS						
1983	Meter									X 1000	T.H.		CORR.										
1	16/ 9																						
2	17/ 9		1.03	120						11.0													
3	18/ 9		1.03	120						10.0													
4	19/ 9		1.03	50	26.0	9	23	20 25		9.5									.36	3.45			
5	20/ 9		1.03	55	27.0	9	36	23 23		9.7									.26	8.73			
6	21/ 9	480	1.08	66	30.0	10	40	28 29		9.7	7	400	.05	6.50	25.00			.26	9.70				
7	22/ 9	870	1.10	54	28.5	10	37	31 35		9.5	14	1000	.05	7.00	22.00			.28	8.29				
8	23/ 9	965	1.09	48	28.0	9	38	26 28		9.4	14	1040	.05	7.00	22.00			.25	9.73				
9	24/ 9	600	1.11	110	36.0	13	46	13 14		9.1	13	880	.05	7.00				.29	9.85				
10	25/ 9	642	1.10	107	36.0	14	44	13 14		9.6	11	1160	.05	7.00	22.00			.31	8.30				
11	26/ 9		1.07	70											22.00								
12	27/ 9																						
13	28/ 9		1.09	35	36.0	7	4	1 1	25.0	2	10.1	17	2360	.05	6.00	10.00		.71	.13				
14	29/ 9		1.08	44	19.0	14	10	3 4	21.0	2	9.8	17	2300	.05	6.00	11.00		.66	.39				

 REMARKS  
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# ANCHOR DRILLING FLUIDS AS

OSLO - STAVANGER

WELL NAME 6407/1-3

AREA HALTENBANKEN

OPERATOR STATOIL

RIG DYVI DELTA

ENGINEERS SUNDE/VAAGA/LAURITZEN

## Drilling Mud Properties Record

MUD SYSTEM GYP/LIGNO

Day No.	DATE	DEPTH FEET METERS	MUD PROPERTIES																	OPERATION REMARKS				
			SG DENSITY PPG □ SG □	VISCOSITY				GELS 0	FLUID LOSS 30 Min cc's	CAKE 32 rds	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.						Cl <sup>-</sup> ppm	Ca <sup>++</sup> ppm	PT	% OIL	% SOLIDS							% SAND
1983	Meter									X 1000	T.H.													
15	30/ 9		1.08	45	19.0	14	10	2	4	14.0	1		9.6	14	1120	.05		6.00		11.00			.66	.39
16	1/10	971	1.07	45	25.0	12	26	8	9	34.0	4		12.5	14	1860	1.60		7.00		11.00			.40	3.22
17	2/10	1376	1.15	44	23.0	16	14	4	18	16.0	2		11.4	13	1100	.15		9.00	1.50	23.00			.62	.64
18	3/10	1678	1.15	42	18.0	11	14	9	36	22.0	3		10.0	14	1920	.10		8.00		24.00			.53	.94
19	4/10	1885	1.40	55	22.0	13	18	11	23	19.4	2		10.0	17	1640	.10		17.00		28.00			.50	1.33
20	5/10	2195	1.55	55	21.5	14	15	18	55	18.0	2		9.7	18	1520	.10		20.00		30.00			.57	.84
21	6/10	2300	1.55	52	22.5	16	13	9	46	14.0	2		10.1	18	1560	.25		22.00		29.00			.63	.56
22	7/10	2300	1.55	58	20.0	19	12	7	36	12.8	2		9.8	18	1550	.15		22.00		30.00			.69	.42
23	8/10	2300	1.55	53	25.0	16	18	8	42	13.0	2		10.2	18	1520	.15		22.00	.50	30.00			.56	1.06
24	9/10	2300	1.55	52	24.0	15	18	8	40	12.8	2		9.7	18	1520	.15		22.00	.50	30.00			.54	1.14
25	10/10	2300	1.55	44	20.0	14	12	8	36	19.0	2		11.7	13	1450	.30		22.00		22.00			.62	.54
26	11/10	2302	1.66	40	19.5	13	13	8	32	21.0	2		11.6	13	1460	.30		23.00		18.00			.58	.68
27	12/10	2302	1.66	40	19.0	14	12	8	34	21.0	2		11.7	13	1460	.30		23.00		18.00			.61	.56
28	13/10	2398	1.66	42	23.5	13	21	15	32	35.0	3		12.3	13	1600	1.50		23.00		18.50			.47	1.85

REMARKS

WELL NAME 6407/1-3 AREA HALTENBANKEN  
 OPERATOR STATOIL RIG DYVI DELTA  
 ENGINEERS AARSETH/VAAGA/LAURITZEN/SUNDE
**Drilling Mud Properties Record**  
 MUD SYSTEM GYP/LIGNO

Day No.	DATE	DEPTH FEET □ METERS □ Meter	MUD PROPERTIES																				OPERATION REMARKS			
			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"
			SG DENSITY PPG □	SG □	sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.	10	CI ppm						Ca ++ ppm	PI	% OIL	% SOLIDS	% SAND						
29	14/10	2410	1.66	47	22.0	15	14	20	25	32.0	3	11.9	1	1650	.70	23.00	22.00			.60	.68					
30	15/10	2592	1.70	48	22.5	15	15	17	30	23.0	3	11.3	14	1840		25.00	22.00			.58	.78					
31	16/10	2803	1.70	54	26.0	17	18	17	40	19.0	3	10.2	16	2600	.25	25.00	25.00			.57	1.00					
32	17/10	2818	1.70	53	26.5	18	17	18	46			10.3	16	2400	.25	25.00				.60	.84					
33	18/10	2926	1.70	53	26.0	19	14	10	45	12.0	2	10.0	17	2400	.20	24.50	23.00			.66	.55					
34	19/10	3024	1.70	53	24.0	17	14	9	47	10.9	2	55.0	17	2200	.25	24.00	22.00			.63	.61					
35	20/10	3051	1.70	53	24.0	17	14	12	56	10.8	2	51.0	17	1960	.30	24.00	21.50			.63	.61					
36	21/10		1.70	48	21.0	16	10	9	49	10.4	2	59.0	18	1680	.20	24.00	21.00			.69	.35					
37	22/10	3132	1.70	50	21.0	16	10	9	53	10.9	2	10.4	18	1760	.25	24.50	20.00			.69	.35					
38	23/10	3135	1.70	51	21.0	16	10	10	57	10.8	2	56.0	18	1860	.20	24.50	20.00			.69	.35					
39	24/10	3235	1.70	50	21.0	16	10	10	58	10.7	2	57.0	18	1880	.20	24.50	20.00			.69	.35					
40	25/10	3135	1.70	52	22.0	16	12	10	57	11.1	2	59.0	18	1960	.20	24.50	20.00			.65	.48					
41	26/10		1.70	50	23.0	17	12	9	56	10.9	2	9.9	17	1820	.10	1.0	25.50	21.00			.67	.46				
42	27/10		1.70	69	29.5	21	17	9	59	9.6	2	10.0	17	1920	.20	24.00	.75	24.00			.63	.73				

 REMARKS





# ANCHOR DRILLING FLUIDS AS

OSLO - STAVANGER

WELL NAME 6407/1-3

AREA HALTENBANKEN

## Drilling Mud Properties Record

OPERATOR STATOIL

RIG DYVI DELTA

MUD SYSTEM GYP/LIGNO

ENGINEERS AARSETH/VAAGA/LAURITZEN/SUNDE/WERSLAND

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	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.						CI ppm	Ca ++ ppm	PI	% OIL	% SOLIDS	% SAND						
1983	Meter	SG				10				X 1000	T.H.													
43	28/10	3155	1.70	66	26.5	19	15	10 59	9.4	2	47.0	10.0	17	1840	.20		24.00	.75	25.00			.64	.63	
44	29/10	3215	1.70	64	24.5	17	15	11 58	8.7	2	44.0	9.8	17	1800	.15		24.50	.75	25.00			.61	.69	
45	30/10	3217	1.70	63	24.0	17	14	9 55	8.8	2	46.0	10.0	17	1760	.20		24.00	.75	24.00			.63	.61	
46	31/10	3222	1.70	64	24.0	17	14	10 56	8.9	2	46.0	10.1	17	1800	.20		24.00	.75	24.00			.63	.61	
47	1/11	3222	1.70	64	24.0	17	14	9 55	9.0	2	48.0	10.1	17	1820	.20		24.00	.75	24.00			.63	.61	
48	2/11	3222	1.70	65	24.0	17	14	9 54	9.0	2	48.0	10.0	17	1820	.20		24.00	.75	24.00			.63	.61	
49	3/11	3222	1.70	77	26.0	17	18	10 64	10.6	2	46.0	10.1	16	1820	.20		24.00	.75	24.00			.57	1.00	
50	4/11	3297	1.70	64	25.5	17	17	10 58	9.2	2	44.0	9.9	17	1600	.20		24.00	1.00	24.00			.58	.89	
51	5/11	3388	1.70	63	27.0	19	16	11 60	8.2	2	40.0	10.0	17	1600	.10		24.00	.75	23.00			.63	.71	
52	6/11	3403	1.70	62	25.0	17	16	10 62	9.4	2	40.0	10.2	17	1600	.20		24.00	.75	23.00			.60	.79	
53	7/11	3467	1.70	58	25.0	17	16	10 60	9.4	2		9.8	18	1520	.20		24.00	.75	23.00			.60	.79	
54	8/11	3494	1.70	62	26.0	18	16	11 62	9.4	2		9.9	18	1480	.20		24.00	.75	23.00			.61	.75	
55	9/11		1.70	58	25.5	17	17	10 63	8.8	2		10.0	18	1200	.15		24.00	.75	23.00			.58	.89	
56	10/11	3563	1.70	56	25.0	17	16	11 58	8.9	2		9.8	19	1200	.15		24.00		23.00			.60	.79	

REMARKS



# ANCHOR DRILLING FLUIDS AS

OSLO — STAVANGER

WELL NAME 6407/1-3 AREA HALTENBANKEN  
 OPERATOR STATOIL RIG. DYVI DELTA  
 ENGINEERS AARSETH/WERSLAND

Drilling Mud Properties Record  
 MUD SYSTEM GYP/LIGNO

Day No.	DATE	DEPTH FEET <input type="checkbox"/> METERS <input type="checkbox"/> 1983 Meter	MUD PROPERTIES																				OPERATION REMARKS				
			DENSITY PPG <input type="checkbox"/> SG <input type="checkbox"/>				VISCOSITY				GELS	Filtrate Analysis				RETORT											
			sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.	0	FLUID LOSS 30 Min cc's	CAKE 32 rds	H.T.H.P. cc's	pH	Cl ppm	Ca. ++ ppm	PI	% OIL	% SOLIDS	% SAND	BENTONITE #/BBL	POTASH #/BBL	POLYMER #/BBL	"N"	"K"					
57	11/11	3598	1.70	53	26.5	19	15	10	61	8.8	2		10.0	19	960	.15	0.0	24.00	.50	23.00					.64	.63	
58	12/11	3608	1.70	50	24.0	18	12	6	48	8.6	2		9.9	19	880	.15	0.0	24.00	.50	22.00					.68	.44	
59	13/11		1.70	51	24.0	18	12	7	49	8.6	2	36.0	9.8	19	840	.15	0.0	24.00	.50	22.50					.68	.44	
60	14/11	3286	1.70	53	22.0	17	10	5	39	8.8	2		9.9	19	600	.20	0.0	24.00	.50	22.00					.70	.33	
61	15/11	3608	1.70	58	22.5	17	11	4	35	8.7	2		10.0	19	560	.20	0.0	24.00	.50	22.00					.68	.39	
62	16/11	3608	1.70	53	21.5	16	11	4	40	8.8	2		9.7	19	600	.15	0.0	24.00	.50	22.00					.67	.41	
63	17/11		1.70	200																							
64	18/11	3609	1.20	42	13.0	9	8	4	18	12.0	1	27.0	9.6	11	480	.15		10.00	0.00	20.00					.61	.37	
65	19/11	3618	1.20	51	14.5	10	9	5	27	10.2	1	26.0	10.4	440	10	.20		10.00	.25	22.00					.61	.42	
66	20/11	3618	1.20	50	14.5	10	9	3	16	8.0	1	22.0	10.2	11	380	.15				22.50					.61	.42	
67	21/11	3639	1.20	54	15.5	11	9	3	21	7.7	1	21.0	9.9	10	320	.10		8.00		23.50					.63	.39	
68	22/11	3684	1.20	58	16.5	12	9	3	22	7.5	1	21.0	10.0	10	320	.10		8.00		24.00					.65	.36	
69	23/11	3711	1.20	52	15.0	11	8	3	18	7.3	1		10.0	11	340	.10		8.00		24.00					.66	.31	
70	24/11	3717	1.20	57	18.0	13	10	5	28	6.6	1	19.2	11.2	11	300	.20		8.00		24.00					.65	.41	

REMARKS

**Drilling Mud Properties Record**

 MUD SYSTEM GEL/LIGNO

 WELL NAME 6407/1-3

 AREA HALTENBANKEN

 OPERATOR STATOIL

 RIG. DYVI DELTA

 ENGINEERS SUNDE/VAAGA

Day No.	DATE	DEPTH FEET □ METERS □ 1983 Meter	MUD PROPERTIES																			OPERATION REMARKS	
			SG DENSITY PPG □ SG □	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						
71	25/11	3748	1.20	52	16.5	11	11	6/38	6.4	1		11.5	11	180	.30	8.00	24.50			.58	.57		
72	26/11	3758	1.20	52	15.5	11	9	4/28	6.9	1	21.0	11.0	11	180	.10	8.00	24.50			.63	.39		
73	27/11	3783	1.21	58	18.0	13	10	6/34	7.0	1	21.0	10.3	11	180	.10	8.00	25.50			.65	.41		
74	28/11	3811	1.21	59	18.5	13	11	4/36	7.2	1	21.0	9.8	11	180	.10	8.00	25.50			.62	.49		
75	29/11	3882	1.20	55	15.5	11	9	4/37	6.8	1	21.5	10.3	12	180	.10	8.00	24.50			.63	.39		
76	30/11	3948	1.20	53	18.0	13	10	4/36	6.8	1	21.0	10.5	12	80	.10	8.00	0.00	24.00			.65	.41	
77	1/12	3976	1.20	53	17.0	13	8	3/30	7.0	1	21.0	10.0	12	100	.20	8.00	0.00	24.00			.69	.28	
78	2/12	3976	1.20	55	16.0	12	8	3/27	7.0	1	2.2	9.9	12	80	.15	8.00	0.00	24.00			.68	.29	
79	3/12	3976	1.20	62	16.0	12	8	3/24	7.2	1	22.0	10.1	13	90	.15	9.00	0.00	23.50			.68	.29	
80	4/12	3976	1.21	52	16.0	12	8	3/23	7.4	1	4.0	10.0	13	80	.15	9.00	0.00	23.00			.68	.29	
81	5/12	3446	1.20	55	22.5	13	19	20/65	9.2	1	28.0	12.1	13	150	1.20	9.00	0.00	22.00			.49	1.49	
82	6/12	3980	1.20	64	16.0	12	8	6/53		1	30.0	11.7	13	60	1.55	9.00	0.00	22.00			.68	.29	
83	7/12	4060	1.20	66	17.5	13	9	4/38	8.4	1	25.0	11.4	13	60	1.20	9.00	0.00	22.50			.67	.34	
84	8/12	4134	1.21	80	18.0	14	8	4/32	7.0	1		11.2	12	60	.90	9.00		23.00			.71	.26	
REMARKS																							



# ANCHOR DRILLING FLUIDS AS

OSLO - STAVANGER

WELL NAME 6407/1-3 AREA HALTENBANKEN  
 OPERATOR STATOIL RIG. DYVI DELTA  
 ENGINEERS AARSETH/FOLKVORD/VAAGA

Drilling Mud Properties Record  
 MUD SYSTEM GEL/LIGNO

Day No.	DATE	DEPTH FEET LI METERS LI	MUD PROPERTIES																		OPERATION REMARKS			
			SG	DENSITY PPG □ SG □	VISCOSITY				GELS 0	FLUID LOSS 30 Min cc's	CAKE 32 hrs	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.						Ca ++ ppm	PI	% OIL	% SOLIDS	% SAND						
1983	Meter	10	10	10	10	X 1000	T.H.	CORR.																
85	9/12	4250	1.20	76	19.0	15	8	3 24	7.1	1		10.6	13	80	.60	9.00	0.00	24.00			.72	.25		
86	10/12	4292	1.30	75	22.5	18	9	3 22	6.6	1	19.0	10.2	12	100	.50	12.00	0.00	24.00			.74	.27		
87	11/12	4326	1.30	73	21.5	17	9	3 27	7.0	1		10.2	13	120	.45	12.00		24.00			.73	.28		
88	12/12	4455	1.29	77	22.5	17	11	3 27	6.6	1		10.3	14	140	.50	11.50		24.00			.68	.39		
89	13/12		1.35	75	24.0	19	10	4 29	6.7	1		9.6	14	140	.35	14.00		23.00			.73	.31		
90	14/12	4469	1.35	80	26.0	20	12	4 29	7.0	1		9.7	14	140	.35	14.00		23.00			.70	.41		
91	15/12	4469	1.35	95	27.0	20	14	4 31	7.2	1	19.5	9.3	16	180	.20	14.00		22.50			.67	.53		
92	16/12	4469	1.35	77	26.5	20	13	4 31	7.3	1	19.8	9.4	16	160	.30	14.00		22.50			.68	.47		
93	17/12	4469	1.40	74	24.5	19	11	4 26	7.6	1	20.0	9.5	16	180	.20	17.00		22.00			.71	.36		
94	18/12	4469	1.40	56	20.5	16	9	3 21	7.7	1	20.5	10.1	16	280	.65	17.00		21.00			.71	.29		
95	19/12	3819	1.20	61	19.5	15	9	3 16	7.0	1	19.0	9.9	8	200	.20	13.50		19.00			.70	.30		
96	20/12	3819	1.20	62	18.5	14	9	3 17	7.1	1	19.0	9.9	8	200	.25	11.50		19.00			.69	.32		
97	21/12	4469	1.20	63	18.5	14	9	3 16	6.8	1	19.0	9.8	8	210	.30	11.50		19.00			.69	.32		
98	22/12	4469	1.20	63	18.0	13	10	3 18	6.7	1	18.5	9.8	8	210	.30	11.50		19.00			.65	.41		

REMARKS



# ANCHOR DRILLING FLUIDS AS

OSLO - STAVANGER

## Drilling Mud Properties Record

MUD SYSTEM GEL/LIGNO

WELL NAME 6407/1-3

AREA HALTENBANKEN

OPERATOR STATOIL

RIG DYVI DELTA

ENGINEERS VAAGA/WERSLAND

Day No.	DATE	DEPTH	MUD PROPERTIES																			OPERATION REMARKS	
			FEET METERS	SG	VISCOSITY				GELS	FLUID LOSS 30 Min cc's	CAKE 32 rds	H.T.H.P. cc's	pH	Filtrate Analysis			RETORT		BENTONITE #/BBL	POTASH #/BBL	POLYMER #/BBL		"N"
1983	Meter	DENSITY PPG			sec/qt	A.V. cps	P.V. cps	Y.P. #/100 sq.ft.						0	10	X 1000	Cl ppm	Ca. ++ ppm				Pf	
99	23/12	3702	1.20	55	16.5	12	9	3	17	6.5	1	18.0	10.2	10	120	.30	11.00	17.50			.65	.36	
100	24/12	3819	1.20	57	16.0	12	9	3	16	6.6	1	18.5	10.1	10	140	.25	11.00	17.50			.65	.36	
101	25/12	3819	1.20	55	15.0	11	9	3	15	6.8	1	18.8	9.9	10	160	.20	11.00	17.50			.63	.39	
102	26/12		1.20	56	16.0	12	8	3	17	6.5	1	18.0	10.3	10	120	.40	11.00	17.50			.68	.29	
103	27/12	3680	1.20	57	17.5	13	9	6	35	7.0	1	19.5	11.9	10	80	.80	11.00	17.50			.67	.34	
104	28/12		1.20	58	16.0	12	8	5	35	6.8	1	19.0	11.8	10	60	1.00	11.00	17.50			.68	.29	
105	29/12	3678	1.20	61	16.5	12	9	6	38	6.8	1	19.0	11.6	10	60	.80	11.00	17.50			.65	.36	
106	30/12		1.20	60	17.0	13	8	6	38	6.8	1	19.0	11.5	10	60	.80	11.00	17.50			.69	.28	
107	31/12		1.20	60	15.0	11	8	5	35	6.8	1		11.4	10	60	.80	11.00	17.00			.66	.31	
108	1/ 1		1.20	60	15.0	11	8	4	33	6.8	1	19.0	11.4	10	60	.70	11.00	17.00			.66	.31	
109	2/ 1		1.20	58	15.5	12	7	5	32	7.0	1		11.2	10	60	.70	11.00	17.00			.71	.23	
110	3/ 1		1.20	60	15.5	11	9	5	34	7.0	1		11.2	10	60	.70	11.00	17.00			.63	.39	
111	4/ 1		1.20	55	14.0	10	8	3	28	7.0	1	20.0	11.0	11	60	.60	10.00	16.50			.64	.34	
112	5/ 1	3662	1.20	56	15.0	11	8	4	26	6.4	1	18.0	11.0	11	80	.60	10.00	16.00			.66	.31	

REMARKS



WELL NAME 6407/1-3

AREA HALTENBANKEN

**Drilling Mud Properties Record**

OPERATOR STATOIL

RIG. DYVI DELTA

MUD SYSTEM GEL/LIGNO

ENGINEERS WERSLAND

Day No.	DATE	DEPTH FEET <input type="checkbox"/> METERS <input type="checkbox"/>	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.						CI ppm	Ca. ++ ppm	Pf	% OIL	% SOLIDS						
1984	Meter										X 1000	T.H.			COOR.									
113	6/ 1	3679	1.20	59	15.5	11	9	4 30	6.6	1		11.2	11	80	.60	10.00		17.00			.63	.39		
114	7/ 1	3679	1.66	68	21.0	15	12	6 40	7.4	1		10.8	11	220	.60	10.00		17.00			.64	.51		
115	8/ 1	3679	1.55	75	22.5	15	15	8 47	8.5	2		10.2	12	380	.80	10.00		16.00			.58	.78		
116	9/ 1	3679	1.55	60	19.0	13	12	5 37	8.0	1		10.4	13	240	.70	10.00		15.50			.60	.58		
117	10/ 1	3679	1.55	55	17.5	13	9	5 33	8.0	1		10.4	13	240	.70	10.00		15.50			.67	.34		
118	11/ 1	3679	1.55	54	17.5	13	9	4 30	8.0	1		10.2	13	200	.60	10.00		15.00			.67	.34		
119	12/1	3679																						

REMARKS