

FORMATION MULTI TESTER (FMT)

After drilling to 3324 m RKB, one FMT run was completed to check the formation pressure. Then drilling to TD at 3622 m RKB, 6 FMT runs were conducted. Three runs were performed with a 1 gal. and 2 3/4 gal. chambers and three runs with a 2 3/4 gal. and 6 gal. chambers.

All pressure points were taken in the Jurassic formation.

Run no. 1: 18 pressure points were taken over the interval 3238.5-3279 m RKB. 3 good points, 4 supercharge and 11 no seal. Problems with getting seals due to packer failure. No sample was taken.

Run no. 2: Only one pressure point, taken at 3254 m RKB, out of 16 was successful due to packer failure. No sample was taken.

Run no. 3: 20 good pressure points were taken between 3239 and 3571 m RKB. One segregated sample was taken at 3239 m RKB.

2 3/4 gallon chamber:

Opening pressure - 0 Bar
Mudfiltrate - 8800 cc
No gas

1 gallon chamber:

Opening pressure - 0 Bar
Mudfiltrate - 3200 cc
No gas

Run no. 4: 3 successful pressure points between 3238 and 3348.5 m RKB were taken. One segregated sample was taken at 3238.3 m RKB.

2 3/4 gallon chamber:

Opening pressure - 0 Bar
Mudfiltrate - 8700 cc
No gas

1 gallon chamber:

Opening pressure - 1.4 Bar
Mudfiltrate - 3200 cc
No gas

Run no. 5: 9 negative attempts to get pressure points due to seal failure. 6 gallon chamber fired by a mistake.

Run no. 6: One attempt to get sample at 3240 m RKB. The 6 gallon failed to open due to broken power line. 2 3/4 gallon chamber contained only mud.

Run no. 7: One successful sample was taken at 3240 m RKB.

2 3/4 gallon chamber:

Opening pressure - 0 Bar
Mudfiltrate - 8700 cc
No gas.

6 gallon chamber:

Opening pressure - 0 Bar
Mudfiltrate 23000 cc
No gas.

Conclusion:

No gas gradient was possible to establish.

In the Hugin sand from 3249 to 3356 m a water gradient of 1.070 g/cc was established.

In the Sleipner formation a water gradient of 1.080 g/cc was established from 3432.5 to 3571 m RKB.

The FMT pressures and the plots are found on the next pages.

No well test was performed in 15/9-18.

15/9-18 FMT pressures

Run no.	Depth m RKB	Form. press. Bar	Remarks
1	3238.5	453.88	Very good perm. Supercharge
	3241	453.94	" " " "
	3249.5	390.43	Very good perm.
	3254.5	391.12	" " "
	3263	392.01	" " "
2	3254	390.46	" " "
3	3239	388.91	Sampling, very good perm.
	3240	389.12	Very good perm.
	3241.5	389.32	" " "
	3244	389.74	Fair perm.
	3248.5	389.81	Very good perm.
	3254	390.42	" " "
	3262.5	391.32	Good perm.
	3272.5	392.42	Very good perm.
	3279	393.12	Fair perm.
	3294.5	394.79	Very good perm.
	3303.3	395.82	Fair perm.
	3356	400.86	Very good perm.
	3356	401.06	" " "
	3433	410.10	Fair perm.
	3433.1	410.17	" "
	3453	412.30	Very good perm.
	3509.3	418.32	Poor perm.
	3540	421.57	Very good perm.
	3571	424.74	" " "
4	3238.3	390.70	Sampling, good perm.
	3244	391.39	Fair perm.
	3248.5	391.32	Very good perm.
6	3240	387.43	Trie to sample, tool did not work, no sample.
7	3240	387.64	Sampling, good perm.

All pressure points are temperatur corrected.

15/9-18 FMT RESULTS

HUGIN FM.

WATER GRADIENT: 0.105 BAR/M 1070 G/CC

DEPTH
M RKB

3200

3250

3300

3350

3400

388

390

392

394

396

398

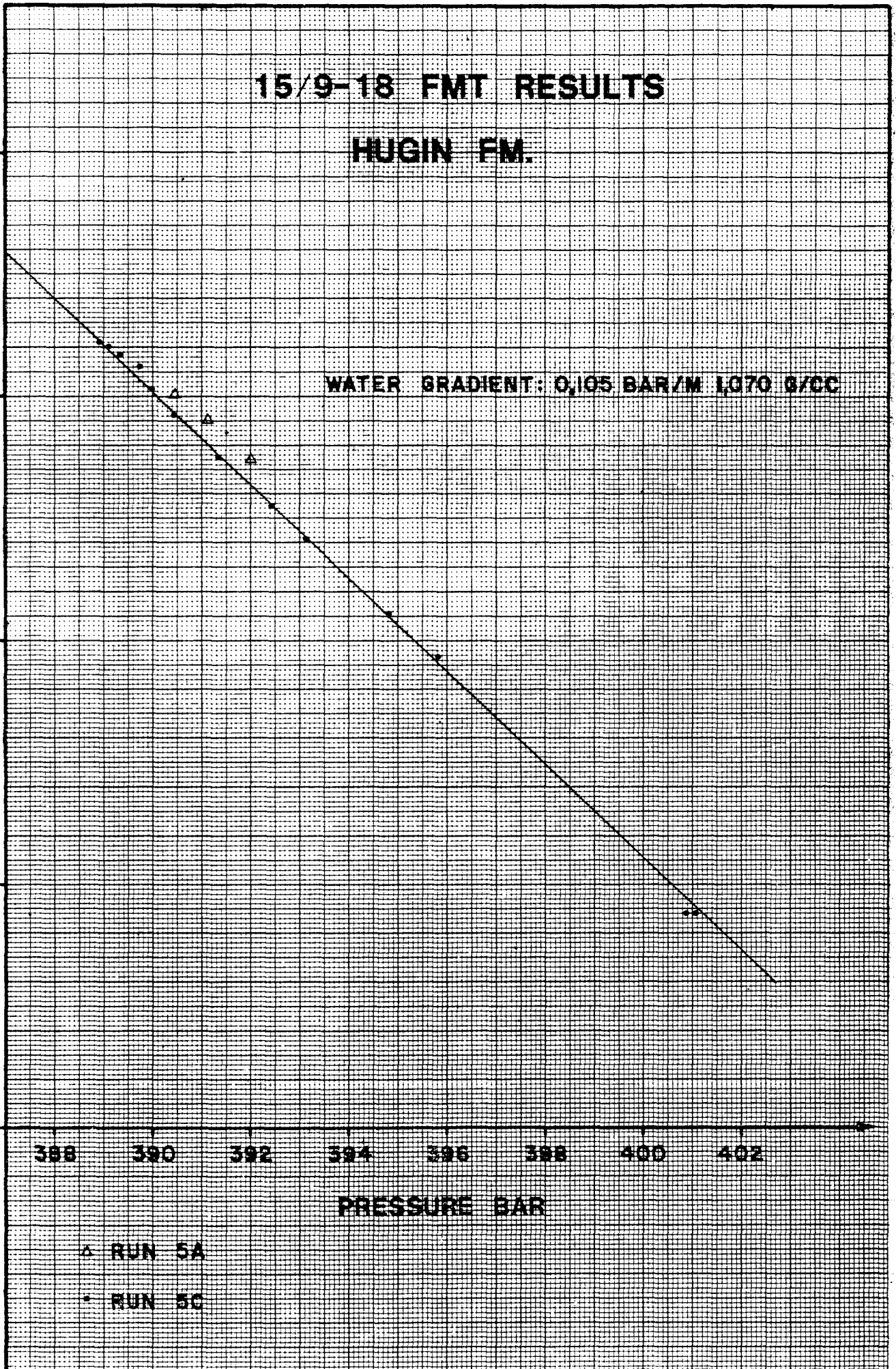
400

402

PRESSURE BAR

△ RUN 5A

• RUN 5C



DEPTH
M RKB

15/9-18 FMT RESULTS

SLEIPNER FM.

WATERGRADIENT = 0,106 BAR/M 1,080 G/CC

3400

3450

3500

3550

3600

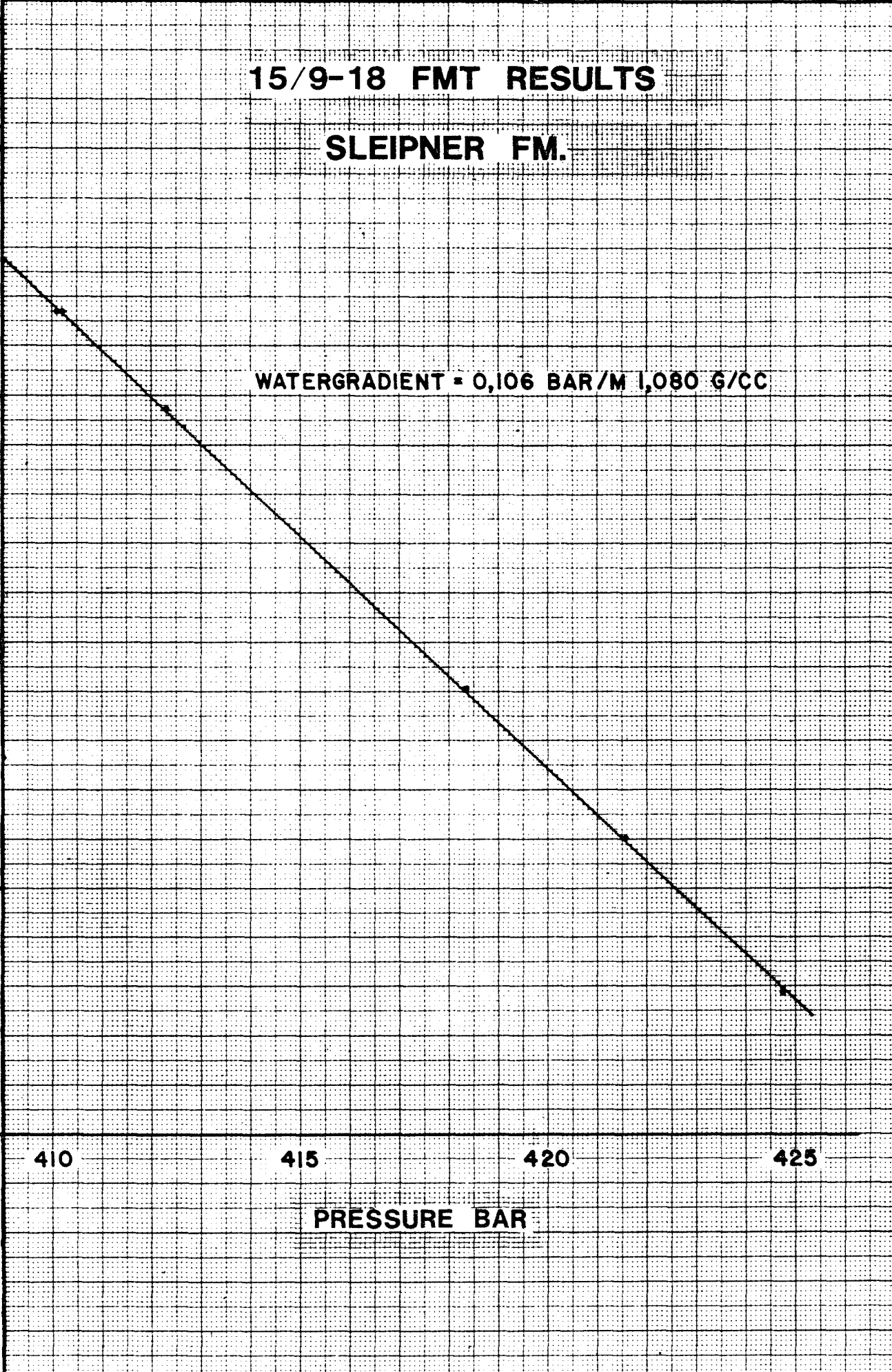
410

415

420

425

PRESSURE BAR



DRILLING MUD RECAP

NORSK PETROLEUM SERVICES A/S

c/o Dolphin Services A/S
4056 Tananger, Norway. Telephone 04-696524. Telex 33235

WELL NAME: 15/9-18 SLEIPNER

MUD PROPERTY RECAP

DATE	DEPTH metres	DENSITY SG	VISC- OSITY secs	FILTRATE ccs	HT/HP IIII		pH	RHEOLOGY				FILTRATE ANALYSIS					RETORT ANALYSIS			CEC			OTHER		
					Cake 1"/32'	°500psi ccs		PV cp	YP lbs/100ft ²	10" 10'	10' 10'	CI mg/litre	TH ppm	PI	MI	XS GYP ppb	Oil %	Water %	Solids %	PPB Bent. Eq.	SAND %	HDS ppb	LDS ppb		
30.12	1174	1.13	44	9.4	2		11.2	18	12	6	13	15000	1520	.4	1.0	3.8		93	7	14	14	1/3	10	60	
31.12	1367	1.13	43	7.2	1		11.3	17	16	4	18	15000	1440	.4	.9	5.0		93	7	14	14	1/4	0	65	
01.01	1625	1.13	46	7.4	1		10.0	14	17	7	21	17000	1680	.1	.9	4.0		93	7	16	16	1/3	0	65	
02.01	1790	1.17	53	7.4	1		9.5	16	20	9	27	17000	1760	.1	.3	4.0		93	7	18	18	1/3	20	60	
03.01	2003	1.20	54	7.0	1		9.5	19	20	9	26	18000	1720	.1	.4	3.8		92	8	18	18	1/4	30	65	
04.01	2050	1.20	53	6.2	1		9.5	18	16	11	27	18000	1640	.1	.4	3.4		92	8	22	22	1/4	50	40	
05.01	2065	1.23	48	8.0	1		10.0	16	21	15	24	19000	2000	.1	.35	3.2		89	11	20	20	1/3	50	60	
06.01	2252	1.23	46	8.2	1		9.4	16	22	20	33	18000	2140	.1	.35	4.2		89	11	22	22	1/4	50	60	
07.01	2340	1.24	43	9.2	1		9.2	13	18	15	20	18000	2020	.2	.60	5.0		90	10	20	20	1/4	70	40	
08.01	2435	1.23	43	7.2	1		9.1	13	16	13	20	18500	2020	.1	.35	5.0		90	10	20	20	TR	61	45	
09.01	2454	1.23	44	7.5	1		9.0	13	16	10	17	18500	2020	.1	.4	5.0		90	10	20	20	TR	61	45	
10.01	2560	1.23	47	7.8	1		9.7	15	15	8	22	18500	1800	.1	.35	4.8		90	10	20	20	1/4	61	45	
11.01	2630	1.23	52	7.2	1		9.5	17	16	7	29	18500	1800	.1	.35	5.0		90	10	23	23	TR	61	45	
12.01	2633	1.23	49	7.4	1		9.5	17	16	8	35	19000	1960	.1	.5	4.8		90	10	20	20	TR	61	45	
13.01	2644.5	1.23	51	8.0	1		9.2	18	17	10	35	19000	2080	.1	.8	4.9		90	10	20	20	TR	61	45	
14.01	2669	1.23	53	8.8	1		9.0	22	16	8	31	19000	1880	.1	.7	3.8		90	10	20	20	TR	61	45	
15.01	2693	1.23	50	8.4	1		9.8	18	16	9	38	19500	1620	.1	1.2	2.9		90	10	19	19	TR	61	45	
16.01	2730	1.23	52	8.2	1		10.0	17	21	12	37	20000	1600	.1	1.4	2.7		89	11	21	21	TR	61	45	
17.01	2762	1.23	50	7.4	1		10.0	19	18	6	30	19500	1600	.1	1.2	2.6		90	10	20	20	TR	61	45	

MUD PROPERTY RECAP

DATE	DEPTH	DENSITY	VISC-O-SITY	FILTRATE		HY/HP filter		pH	RHEOLOGY				FILTRATE ANALYSIS					RETORT ANALYSIS			CEC	OTHER		
				ccs	1"/32 mm	°500psi	Y/mmr		PV	YP	10"	10'	Cl	Ca	Pf	Mf	Xs GEL	Oil	Water	Solids		PPB	SAND	HDS
1984	metres	SG	secs		1"/32 mm	ccs	Y/mmr		cp	lbs/100ft ² -gms/100	cm ²	mg/litre	ppm			ppb	%	%	%	Bent. Eq.	%	ppb	ppb	
18.01	2762	1.23	50	7.5	1			9.7	19	18	7	30	19500	1600	.1	1.0	2.5	90	10	20	TR	61	45	
19.01	2762	1.23	60	7.6	1			8.4	19	21	10	33	19500	1600	.1	1.0	2.5	90	10	20	TR	61	45	
20.01	2762	1.24	54	7.6	2			9.0	18	17	9	30	20000	1560	.1	1.0	2.8	90	10	20	TR	61	45	
21.01	2791	1.24	46	7.2	2	21	4	11.1	16	12	4	18	20000	1640	.4	1.5	3.3	90	10	20	1/4	55	58	
22.01	2914	1.24	50	6.0	1	16.0	2	10.9	18	13	3	16	20000	1400	.3	1.2	2.3	90	10	20	1/4	55	58	
23.01	3005	1.24	51	7.4	1	19.0	3	10.6	19	12	4	18	19000	1240	.2	.8	1.3	89	11	25	1/4	60	75	
24.01	3040	1.24	50	7.4	1	19.0	3	10.0	18	12	5	18	18000	1400	.2	.8	1.4	89	11	25	1/4	60	75	
25.01	3040	1.24	54	6.4	1	19.0	3	9.9	19	12	4	18	18000	1360	.2	.9	1.4	89	11	25	1/4	60	75	
26.01	3040	1.24	54	6.6	1	19.6	3	10.3	17	13	4	17	18000	1320	.3	.6	1.2	89	11	25	TR	60	75	
27.01	3040	1.24	60	6.2	1	18.0	3	10.2	17	12	3	14	17500	1280	.25	.6	1.2	89	11	25	1/4	60	75	
28.01	3043	1.30	55	6.2	1	17.6	3	10.7	17	12	4	16	18000	1200	.3	.6	-	88	12	25	1/4	150	40	
29.01	3088	1.35	53	6.0	1	17.0	3	10.8	18	12	4	14	17000	1240	.3	.7	-	88	12	25	1/4	170	32	
30.01	3102	1.39	55	5.0	1	15.0	3	10.7	21	12	4	15	18000	1320	.25	.6	0.9	87	13	22	TR	170	46	
31.01	3130	1.42	54	4.4	1	14.6	3	10.6	22	11	4	16	18500	1280	.2	.6	-	84	16	22	TR	170	46	
01.02	3218	1.42	54	4.2	1	14.4	3	10.6	23	14	4	16	19000	1080	.25	.6	-	85	15	22	TR	165	30	
02.02	3234	1.42	57	3.8	1	14.0	3	10.6	23	13	4	15	19000	1040	.2	.7	0.2	84	16	25	TR	150	45	
03.02	3264	1.42	57	3.8	1	11.2	2	10.8	22	12	2	11	18000	1040	.4	.7		84	16	23	TR	150	45	
04.02	3321	1.42	48	3.7	1	11.0	2	10.6	21	13	3	14	18000	820	.4	1.4		84	16	24	1/4	150	45	
05.02	3321	1.42	59	3.8	1	11.0	2	10.6	21	13	3	14	18000	800	.4	1.4		84	16	24	TR	150	45	

WELL NAME: 15/9-18 SLEIPNER

MUD PROPERTY RECAP

DATE	DEPTH	DENSITY	VISCOSITY	FILTRATE		HT/HP fill		pH	RHEOLOGY				FILTRATE ANALYSIS				RETORT ANALYSIS			CEC				OTHER			
											PV	YP	10"	10'	CI	Ca	Pf	MI	XS GEL	Oil	Water	Solids	PPB	SAND	HDS	LDS	Pm
1984	metres	SG	secs	ccs	Cake 1"/32'	°500psi ccs	1"/32'		cp	lbs/100ft ³			mg/litre	ppm			%	%	%	Bent. Eq.	%	ppb	ppb				
06.02	3321	1.42	57	4.7	1	14.2	2	11.9	22	12	3	13	18000	680	1.0	2.6	2.9	0	16	84	23	1/4	150	45	9.0		
06.02	bottoms 2303	1.44		4.8	1			12.05	23	11	2	13	17500	700	1.4	2.65	4.5	0	1			2/3			21.5		
07.02	3321	1.42	62	4.7	1	13.8	2	12.1	22	12	3	14	18000	640	1.35	2.85	2.9	0	16	84	23	1/2	150	45	12.0		
08.02	3321	1.42	61	5.0	1	10.8	2	12.1	21	12	2	12	18000	640	1.6	2.85	3.5	0	16	84	22	1/2	150	45	17.0		
09.02	3321	1.42	78	4.9	1	13.0	2	12.3	21	12	2	13	18000	680	1.9	3.4	5.3	0	16.5	83.5	22	1/2	135	57	21		
10.02	3321	1.42	63	4.8	1	15.0	2	12.2	24	11	2	12	16500	820	1.9	3.3	3.3	0	16	84	22	1	150	45	21		
11.02	3361	1.42	62	4.6	1	14.8	2	12.0	25	12	2	14	15500	700	1.7	3.1	2.9	0	16	84	24	1/4	150	45	20		
12.02	3406	1.42	62	4.8	1	14.6	2	12.0	24	13	2	15	15500	660	1.4	2.9	2.9	0	16	84	24	1/4	150	45	20		
13.02	3443	1.42	64	4.7	1	14.6	2	11.9	24	13	2	16	15500	800	1.4	2.9	2.8	0	16	84	24	TR	150	45	19		
14.02	3480	1.42	64	4.8	1	14.8	2	11.8	24	14	3	17	16000	800	1.2	2.6	2.5	0	16	84	23	TR	150	45			
15.02	3481	1.42	68	4.8	1	15.0	2	11.8	25	13	2	16	16200	800	1.1	2.5	2.4	0	16	84	23	TR	150	45			
16.02	3497	1.42	63	5.0	1	15.2	2	11.8	24	12	2	15	16000	940	1.1	2.5	1.8	0	16	84	23	TR	150	45			
17.02	3524	1.42	63	4.6	1	15.2	2	11.6	24	12	3	15	17000	960	1.1	2.4	1.6	0	16	84	23	1/4	150	45			
18.02	3540	1.42	65	4.4	1	14.8	3	11.8	24	12	3	15	17000	1040	.8	2.1	-	0	16	84	20	1/4	150	45			
19.02	3573	1.42	68	4.6	1	15.2	3	11.8	24	14	3	15	17000	1080	.9	2.3	1.6	0	16	84	20	1/4	150	45	13.3		
20.02	3618	1.42	62	4.4	1	15.0	3	12.0	23	12	3	13	17500	720	1.5	2.5	-	0	16	84	20	1/4	150	45	13.8		
21.02	3622	1.41	57	4.6	1	15.2	3	12.0	21	11	3	10	18000	720	1.1	2.4	-	0	16	84	20	1/4	150	45	-		
22.02	3622	1.42	63	4.2	1	14.6	3	12.0	23	12	3	14	17000	640	1.1	2.4	-	0	16	84	20	1/4	150	45			
23.02	3622	1.42	74	4.4	1	14.8	3	12.0	23	12	2	12	17000	640	1.1	2.8	-	0	16	84	20	1/4	150	45			

NORSK PETROLEUM SERVICES A/S

c/o Dolphin Services A/S
4056 Tananger, Norway. Telephone 04-696524. Telex 33235

WELL NAME: 15/9-18 SLEIPNER

MUD PROPERTY RECAP

DATE	DEPTH	DENSITY	VISC. OSITY	FILTRATE	HY/HP filt			pH	RHEOLOGY					FILTRATE ANALYSIS					RETORT ANALYSIS			CEC	OTHER															
					metres	SG	secs		ccs	Cake		° 500psi	PV	YP	10"	10'	Cl	Ca	Pl	MI	XS Gyp		Oil	Water	Solids	PPB	Sand	HDS	LDS	pm								
										1"/mm	32"/mm																				cp	lbs/100ft ²	mg/litre	ppm	%	%	%	Bent. Eq.
24.02	3622	1.42	65	4.4	1	15.4	3	11.9	23	11	2	10	18000	680	1.0	2.1	-	0	84	16	-	1/3	150	45														
25.02	3622	1.42	67	4.6	1	15.4	3	11.9	22	12	2	10	18000	680	1.0	2.2	-	0	84	16	-	1/3	-	-	-													
26.02	2650	1.42	55	5.0	2	16.2	3	12.3	22	11	3	10	19000	800	1.7	2.5	-	0	84	16	-	1/3			16.0													
27.02	1040	1.42	59	4.8	2	16.4	3	12.4	20	11	2	11	20000	960	1.5	2.8	-	0	84	16	-	1/3																
28.02	366	1.40	84	5.6	2	16.8	3	12.5	20	12	3	18	17000	920	2.0	3.4	-	0	83	17	-	1/3																
01.03	-	1.40	100+	5.8	2	-	-	12.5	20	13	3	22	17000	960	2.1	3.6	-	0	83	17	-	1/3																

NORSK PETROLEUM SERVICES A/S.

OPERATING AREA 15/9-18
Sleipner

MATERIALS USED PER CASING INTERVAL

36" Hole 30" Casing set at 181 m

<u>MATERIAL</u>	<u>UNIT</u>	<u>ESTIMATED</u>		<u>ACTUAL</u>	
		<u>QUANTITY</u>	<u>COST \$</u>	<u>QUANTITY</u>	<u>COST \$</u>
Bargain	M/T	33	3,942.51	23	2,747.81
Bentonite	M/T	16	4,340.00	27	7,155.00
Soda Ash	50 kg	2	29.04	0	0
Caustic Soda	25 kg			15	<u>173.25</u>
Total Cost			8,211.55		10,076.06
Cost/bbl		1200	6.84	1993	5.05
Cost/m ³		191	42.99	317	31.79
Cost/meter		65	126.33	62	162.51

NORSK PETROLEUM SERVICES A/S.

OPERATING AREA 15/9-18
Sleipner

MATERIALS USED PER CASING INTERVAL

26" Hole 20" Casing set at 518 m

<u>MATERIAL</u>	<u>UNIT</u>	<u>ESTIMATED</u>		<u>ACTUAL</u>	
		<u>QUANTITY</u>	<u>COST \$</u>	<u>QUANTITY</u>	<u>COST \$</u>
Bargain	M/T	37	4,420.39	164	19,593.08
Bentonite	M/T	40	10,600.00	81	21,465.00
Soda Ash	50 kg	5	72.60	1	14.52
Caustic Soda	25 kg			52	600.60
Staflo	25 kg			21	2,296.98
CaCl ₂	50 kg			32	<u>637.44</u>
Total Cost			15,092.99		44,607.62
Cost/m ³		692	21.81	1199	37.20
Cost/bbl		4350	3.47	7541	5.92
Cost/meter		327	46.16	339	131.58

NORSK PETROLEUM SERVICES A/S.

15/9-18
 OPERATING AREA SLEIPNER

MATERIALS USED PER CASING INTERVAL

17 1/2" Hole 13 3/8" Casing

MATERIAL	UNIT	ESTIMATED		ACTUAL	
		QTY	COST \$	QTY	COST \$
BARGAIN	M/T	25	2,986.75	41	4,898.27
BENTONITE	M/T	33	8,745.00	41	10,865.00
CAUSTIC SODA	25 kg	170	1,963.50	86	993.30
CMC HV	25 kg			21	984.27
CMC LV	25 kg	140	5,620.00	122	4,867.80
DESCO	25 lb			16	620.64
DEXTRID	50 lb	240	9,996.00	174	7,247.10
GYPSUM	50 kg	700	3,255.00	447	4,157.10
LIME	40 kg			22	179.52
Q-BROXIN	25 kg	175	2,861.25	76	1,242.60
SODA ASH	50 kg	11	159.72	12	174.24
XC POLYMER	25 kg	56	14,470.00	73	<u>18,862.20</u>
			50,057.62		55,093.04
Cost/m ³		765	65.43	548	100.53
Cost/bbl		4810	10.41	3452	16.61
Cost/meter		650	77.01	650	84.76

NORSK PETROLEUM SERVICES A/S.

OPERATING AREA 15/9-18
SLEIPNER

MATERIALS USED PER CASING INTERVAL

12 1/2" Hole/9 5/8" Casing

<u>MATERIAL</u>	<u>UNIT</u>	<u>ESTIMATED</u>		<u>ACTUAL</u>	
		<u>QTY</u>	<u>COST \$</u>	<u>QTY</u>	<u>COST \$</u>
BARGAIN	M/T	125	14,933.75		
BENTONITE	M/T	28	7,420.00		
CAUSTIC SODA	25 kg	228	2,633.40		
CMC LV	25 kg	152	6,064.80	56	2,234.40
DEXTRID	50 lb	335	13,952.25	30	1,249.50
GYPSUM	25 kg	760	3,534.00	132	1,227.60
LIGNOSULPHONATE	25 kg	305	4,986.75		
SODA ASH	50 kg	19	275.88		
XCD POLYMER	50 lb	63	<u>16,279.20</u>	14	<u>3,617.60</u>
			70,080.53		8,329.10

Above item costed at 1983 prices those materials listed below are costed at 1984 prices effective 01/01/84.

BARGAIN	M/T			134	13,400.00
BENTONITE	M/T			13	3,250.00
CAUSTIC SODA	25 kg			201	2,261.25
CMC HV	25 kg			45	1,653.75
CMC LV	25 kg			209	7,680.75
DEXTRID	50 lb			184	10,922.28
GYPSUM	50 kg			191	1,776.30
GYPSUM	40 kg			402	2,990.38
LIME	40 kg			4	32.64
Q-BROXIN	25 kg			27	357.75
XCD POLYMER	25 kg			43	<u>14,030.90</u>
					58,356.46
Total Cost			70,080.53		66,685.56
Cost per m ³	665	105.38		889	75.01
Cost per bbl	4185	16.75		5591	11.93
Cost per m	1620	43.20		1592	41.89

NORSK PETROLEUM SERVICES A/S.

OPERATING AREA 15/9-18
SLEIPNER

MATERIALS USED PER CASING INTERVAL

8 1/2" Hole

<u>MATERIAL</u>	<u>UNIT</u>	<u>ESTIMATED</u>		<u>ACTUAL</u>	
		<u>QTY</u>	<u>COST \$</u>	<u>QTY</u>	<u>COST \$</u>
BARGAIN	M/T	151	18,039.97	181	18,100.00
BENTONITE	M/T	18	4,770.00	29	7,250.00
CAUSTIC SODA	25 kg	113	1,305.15	154	1,732.50
CC 16	50 lb	186	3,162.00	424	7,208.00
CMC LV	25 kg	56	2,234.00	219	9,150.75
LIME	40 kg			5	40.80
LIGNOSULPHONATE	25 kg	338	5,526.30	520	6,890.80
SODIUM BICARBONATE	50 kg	13	216.97		
SODA ASH	50 kg	14	203.28	6	121.92
TORQ TRIM II	55 gal			10	7,345.00
W 300	55 gal			2	1,158.44
XCD POLYMER	25 kg			4	1,438.40
			<u>35,458.07</u>		<u>60,435.81</u>
Cost per m ³	270	131.33	531	113.82	
Cost per bbl	1695	20.92	2340	18.10	
Cost per m	915	38.75	860	70.27	

Note: Estimated cost at 1983 prices. Actual cost at 1984 prices effective 01/01/84.

NORSK PETROLEUM SERVICES A/S.

OPERATING AREA 15/9-18
Sleipner

TOTAL MATERIAL CONSUMPTION

MATERIAL	PACKAGING	QUANTITY
BARGAIN	M/T	543
BENTONITE	M/T	191
CALCIUM CHLORIDE	50 kg	47
CAUSTIC SODA	25 kg	508
CC - 16	50 lb	424
CMC LV	25 kg	636
CMC HV	25 kg	66
DESCO	25 lb	16
DEXTRID	50 lb	388
GYPSUM	40 kg	402
GYPSUM	50 kg	1038
LIME	40 kg	31
Q-BROXIN	25 kg	623
SODA ASH	50 kg	19
STAFLO	25 kg	21
TORQ TRIM II	55 gal	10
W-300	55 gal	2
XCD POLYMER	25 kg	134

NORSK PETROLEUM SERVICES A/S

OPERATING AREA SLEIPNER

OPERATOR STATOIL

WELL NAME/No. 15/9-18

CONTRACTOR ODCC

RIG Deep Sea Bergen

BAROID ENGINEERS Bristow, Cluck, Craddock, Wood

T.D. 3622 m

HOLE SIZE	CASING SIZE	CASING SET AT	MUD TYPE	MUD COST	DRILLING DAYS
36"	30"	181 m	Seawater and hiVis Gel Pills	10076.06	13 hrs
26"	20"	497 m	Seawater/Gel	44607.62	62 hrs
17 1/2"	13 3/8"	1150 m	Gyp/Lignosulphonate	55093.04	42.5 hrs
12 1/4"	9 5/8"	2742 m	Gyp/Lignosulphonate	66685.56	223.5 hrs
8 1/2"	-	to 3622	Lignite/Lignosulphonate	60435.86	268.5 hrs