



A list of all analysed samples is presented in Table 1.3. The analytical and preparative methods employed in this study comprised geochemical screening, kerogen characterisation and bitumen characterisation. Screening included headspace and occluded gas analysis and Rock-Eval pyrolysis. Kerogen characterisation comprised vitrinite reflectance, sporinite fluorescence and visual kerogen analysis, and temperature-programmed pyrolysis-gas chromatography. Bitumen characterisation included solvent extraction followed by asphaltene precipitation and preparative group type separation by MPLC<sup>3</sup>, analytical group type separation by TLC-FID<sup>4</sup> (Iatroscan), gas chromatography (GC-FID) of saturated hydrocarbons, analysis of the saturated and aromatic fractions by gas chromatography-mass spectrometry (GC-MSD<sup>5</sup>) and analysis of stable carbon isotopes in the saturated and aromatic hydrocarbon fractions of the rock extracts. The analyses were carried out according to the guidelines Norwegian Industry Guide to Organic Geochemical Analyses (NIGOGA)<sup>6</sup>, except for the visual kerogen description, where Norsk Hydro's more specific guidelines were applied (see Appendix 5).

Visual kerogen analysis and spore colour determination were carried out by Simon Petroleum Technology Ltd (SPT) in Llandudno, UK. Vitrinite reflectance was determined by Geolab Nor UK. Headspace and occluded gas analyses,

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<sup>3</sup> Medium Pressure/Performance Liquid Chromatography  
<sup>4</sup> Thin Layer Chromatography with Flame Ionisation Detection  
<sup>5</sup> Mass-Sensitive Detector  
<sup>6</sup> The Norwegian Industry Guide to Organic Geochemical Analyses, 3rd edition, 1993

stable carbon isotope analyses of extract fractions and pyrolysis-gas chromatography of solvent-extracted rock samples were performed by Geolab Nor in Trondheim, Norway. All other analytical and interpretive work was done at the Norsk Hydro Research Centre in Bergen, Norway.

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Table 1.3 Samples and analyses

Cty	Well	Type	Upper Depth (MD m RKB)	Lower Depth (MD m RKB)	Lithology, remarks	Rock Eval	REx	Py-GC	Extr/Asph.	MPLC	TLC-FID	GC-FID SAT	GC-MSD SAT	MRM	SMS	GC-MSD ARO	Isot EOM Fract.	VR	Visual kerogen/SCI	Headsp./occl. gas
NOR	30/8-1S	DC	1350.00	1370.00	CLYST/SLST															1
NOR	30/8-1S	DC	1370.00	1380.00	SST													1	SCI	
NOR	30/8-1S	DC	1430.00	1440.00	SST/CLYST													1		
NOR	30/8-1S	DC	1490.00	1510.00	CLYST/SST															1
NOR	30/8-1S	DC	1540.00	1550.00	CLYST													1	SCI	
NOR	30/8-1S	DC	1640.00	1650.00	CLYST													1		
NOR	30/8-1S	DC	1650.00	1670.00	CLYST															1
NOR	30/8-1S	DC	1740.00	1750.00	CLYST													1	SCI	
NOR	30/8-1S	DC	1790.00	1810.00	CLYST															1
NOR	30/8-1S	DC	1840.00	1850.00	CLYST													1		
NOR	30/8-1S	DC	1940.00	1950.00	CLYST													1	SCI	
NOR	30/8-1S	DC	1950.00	1970.00	CLYST															1
NOR	30/8-1S	DC	2040.00	2050.00	CLYST													1		
NOR	30/8-1S	DC	2090.00	2110.00	CLYST															1
NOR	30/8-1S	DC	2140.00	2150.00	CLYST													1	SCI	
NOR	30/8-1S	DC	2240.00	2250.00	CLYST/SST													1		
NOR	30/8-1S	DC	2250.00	2270.00	CLYST/SST															1
NOR	30/8-1S	DC	2340.00	2350.00	CLYST													1	SCI	
NOR	30/8-1S	DC	2410.00	2430.00	CLYST/LST															1
NOR	30/8-1S	DC	2440.00	2445.00	CLYST/LST													1		
NOR	30/8-1S	DC	2530.00	2540.00	LST/CLYST	1			1	1	1	1	1			1	1		SCI	
NOR	30/8-1S	DC	2540.00	2550.00	CLYST/LST													1		
NOR	30/8-1S	DC	2550.00	2570.00	CLYST/LST															1
NOR	30/8-1S	DC	2640.00	2650.00	CLYST													1		
NOR	30/8-1S	DC	2710.00	2730.00	CLYST															1
NOR	30/8-1S	DC	2740.00	2750.00	CLYST													1	SCI	
NOR	30/8-1S	DC	2840.00	2850.00	CLYST													1		
NOR	30/8-1S	ADD		2840.00	KCl/PMPA mud	1		1	1	1	1	1	1			1	1			
NOR	30/8-1S	DC	2850.00	2870.00	CLYST															1
NOR	30/8-1S	DC	2940.00	2950.00	CLYST													1	SCI	
NOR	30/8-1S	DC	2950.00	2970.00	CLYST															1
NOR	30/8-1S	DC	3045.00	3050.00	CLYST													1		
NOR	30/8-1S	DC	3050.00	3070.00	CLYST															1
NOR	30/8-1S	DC	3145.00	3150.00	CLYST													1	SCI	
NOR	30/8-1S	DC	3150.00	3170.00	CLYST															1
NOR	30/8-1S	DC	3200.00	3215.00	CLYST															1
NOR	30/8-1S	DC	3230.00	3245.00	CLYST															1
NOR	30/8-1S	DC	3250.00	3252.00	CLYST/LST													1		
NOR	30/8-1S	DC	3260.00	3275.00	LST/CLYST															1
NOR	30/8-1S	DC	3290.00	3305.00	LST/CLYST															1
NOR	30/8-1S	DC	3320.00	3335.00	LST/CLYST															1
NOR	30/8-1S	DC	3357.00	3360.00	LST	1			1	1	1	1	1			1	1	1	SCI	

Table 1.3 Samples and analyses (continued)

Cty	Well	Type	Upper Depth (MD m RKB)	Lower Depth (MD m RKB)	Lithology, remarks	Rock Eval	REx	Py-GC	Extr / Asph.	MPLC	TLC - FID	GC - FID SAT	GC - MSD SAT	MRM	SMS	GC - MSD ARO	Isot EOM Fract.	VR	Visual kerogen / SCI	Headsp. / occl. gas
NOR	30/8-1S	DC	3360.00	3362.00	LST	1														
NOR	30/8-1S	DC	3350.00	3365.00	LST/SLST	1													VK	1
NOR	30/8-1S	DC	3365.00	3367.00	CLYST/LST	1													VK	
NOR	30/8-1S	DC	3367.00	3370.00	CLYST/LST	1		1	1	1	1	1					1		VK	
NOR	30/8-1S	DC	3370.00	3372.00	CLYST/LST	1													VK	
NOR	30/8-1S	DC	3372.00	3375.00	CLYST/LST	1													VK	
NOR	30/8-1S	DC	3375.00	3377.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3377.00	3380.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3380.00	3382.00	SLST/CLYST/LST	1													VK+SCI	
NOR	30/8-1S	DC	3382.00	3385.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3385.00	3387.00	SLST/CLYST/LST	1		1	1	1	1	1				1	1		VK	
NOR	30/8-1S	DC	3387.00	3390.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3390.00	3392.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3380.00	3395.00	SLST/CLYST/LST	1													VK	1
NOR	30/8-1S	DC	3395.00	3397.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3397.00	3400.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3400.00	3402.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3402.00	3405.00	SLST/CLYST/LST	1		1	1	1	1	1				1	1		VK	
NOR	30/8-1S	DC	3405.00	3407.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3407.00	3410.00	SLST/CLYST/LST	1													VK+SCI	
NOR	30/8-1S	DC	3410.00	3412.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3412.00	3415.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3415.00	3417.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3417.00	3420.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3420.00	3422.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3410.00	3425.00	SLST/CLYST/LST	1													VK	1
NOR	30/8-1S	DC	3425.00	3427.00	SLST/CLYST/LST	1		1	1	1	1	1				1	1		VK	
NOR	30/8-1S	DC	3427.00	3430.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3430.00	3432.00	SLST/CLYST/LST	1													VK	
NOR	30/8-1S	DC	3432.00	3435.00	SLST/CLYST/LST	1													VK+SCI	
NOR	30/8-1S	DC	3435.00	3437.00	CLYST/SLST	1													VK	
NOR	30/8-1S	DC	3437.00	3440.00	CLYST/SLST	1		1	1	1	1	1					1		VK	
NOR	30/8-1S	DC	3440.00	3442.00	CLYST/SLST	1													VK	
NOR	30/8-1S	DC	3442.00	3445.00	CLYST/SLST	1													VK	
NOR	30/8-1S	DC	3445.00	3447.00	CLYST/SLST	1													VK	
NOR	30/8-1S	DC	3447.00	3450.00	SST/CLYST/SLST	1													VK	
NOR	30/8-1S	DC	3450.00	3452.00	SST/CLYST/SLST	1													VK	
NOR	30/8-1S	DC	3440.00	3455.00	SST/CLYST/SLST	1													VK	1
NOR	30/8-1S	COCH	3457.50	3457.50	SLST	1		1	1	1	1	1				1	1		VK	
NOR	30/8-1S	COCH	3460.40	3460.40	SLST	1													VK+SCI	
NOR	30/8-1S	DC	3460.00	3462.00	CLYST	1		1	1									1	VK	
NOR	30/8-1S	DC	3462.00	3465.00	CLYST/SLST	1													VK	

Table 1.3 Samples and analyses (continued)

Cty	Well	Type	Upper Depth (MD m RKB)	Lower Depth (MD m RKB)	Lithology, remarks	Rock Eval	REx	Py-GC	Extr / Asph.	MPLC	TLC - FID	GC - FID SAT	GC - MSD SAT	MRM	SMS	GC - MSD ARO	Isot EOM Fract.	VR	Visual kerogen / SCI	Headsp. / occl. gas
NOR	30/8-1S	DC	3467.00	3470.00	SST/SLST	1														
NOR	30/8-1S	DC	3472.00	3475.00	SST/SLST	1		1	1											
NOR	30/8-1S	DC	3477.00	3480.00	SST/SLST	1														
NOR	30/8-1S	DC	3470.00	3485.00	SLST/SST	1														1
NOR	30/8-1S	DC	3487.00	3490.00	CLYST/SLST	1		1	1	1	1	1	1				1		VK+SCI	
NOR	30/8-1S	DC	3492.00	3495.00	SLST/CLYST	1													VK	
NOR	30/8-1S	DC	3497.00	3500.00	SLST/CLYST	1		1	1											
NOR	30/8-1S	DC	3502.00	3505.00	CLYST/SLST	1													VK	
NOR	30/8-1S	DC	3507.00	3510.00	SLST/CLYST	1		1	1	1	1	1	1				1		VK+SCI	
NOR	30/8-1S	DC	3500.00	3515.00	SLST/CLYST	1														1
NOR	30/8-1S	DC	3517.00	3520.00	SLST/CLYST	1														
NOR	30/8-1S	COCH	3526.50	3526.50	SLST	1														
NOR	30/8-1S	DC	3537.00	3540.00	SST/SLST/CLYST													1		
NOR	30/8-1S	DC	3526.00	3545.00	SST/SLST/CLYST															1
NOR	30/8-1S	ADD	3555.00	3555.00	KCV/PMPA mud	1														
NOR	30/8-1S	COCH	3563.20	3563.20	SST	1			1	1	1	1	1			1	1			
NOR	30/8-1S	COCH	3567.60	3567.60	SS	1														
NOR	30/8-1S	COCH	3569.70	3569.70	SH	1												1		
NOR	30/8-1S	COCH	3571.50	3571.50	SST	1														
NOR	30/8-1S	DC	3560.00	3575.00																1
NOR	30/8-1S	COCH	3576.30	3576.30	SST	1			1	1	1	1	1				1			
NOR	30/8-1S	COCH	3579.60	3579.60	SST	1														
NOR	30/8-1S	COCH	3581.70	3581.70	SST	1														
NOR	30/8-1S	COCH	3586.50	3586.50	SST	1			1	1	1	1	1			1	1			
NOR	30/8-1S	COCH	3591.60	3591.60	SST	1														
NOR	30/8-1S	COCH	3596.50	3596.50	SST	1			1	1	1	1	1				1			
NOR	30/8-1S	COCH	3601.50	3601.50	SST	1														
NOR	30/8-1S	COCH	3603.70	3603.70	SST	1														
NOR	30/8-1S	COCH	3606.60	3606.60	SST	1			1	1	1	1	1			1	1			
NOR	30/8-1S	COCH	3608.70	3608.70	SST	1														
NOR	30/8-1S	COCH	3610.70	3610.70	SST	1														
NOR	30/8-1S	COCH	3614.10	3614.10	SST	1														
NOR	30/8-1S	COCH	3616.90	3616.90	SST	1			1	1	1	1	1				1			
NOR	30/8-1S	COCH	3619.30	3619.30	SST	1														
NOR	30/8-1S	DC	3605.00	3620.00																1
NOR	30/8-1S	COCH	3623.70	3623.70	SST	1														
NOR	30/8-1S	COCH	3628.70	3628.70	SST	1														
NOR	30/8-1S	COCH	3633.50	3633.50	SST	1			1	1	1	1	1			1	1			
NOR	30/8-1S	COCH	3637.90	3637.90	SST	1														
NOR	30/8-1S	COCH	3639.10	3639.10	SST	1														
NOR	30/8-1S	COCH	3640.50	3640.50	COAL	1												1		
NOR	30/8-1S	COCH	3643.50	3643.50	SST	1			1	1	1	1	1			1	1			

Table 1.3 Samples and analyses (continued)

Cty	Well	Type	Upper Depth (MD m RKB)	Lower Depth (MD m RKB)	Lithology, remarks	Rock Eval	REX	Py-GC	Extr / Asph.	MPLC	TLC - FID	GC - FID SAT	GC - MSD SAT	MRM	SMS	GC - MSD ARO	Isot EOM Fract.	VR	Visual kerogen / SCI	Headsp. / occl. gas
NOR	30/8-1S	COCH	3649.60	3649.60	SST	1														
NOR	30/8-1S	COCH	3651.60	3651.60	SST	1			1	1	1	1	1				1			
NOR	30/8-1S	COCH	3655.40	3655.40	SST	1														
NOR	30/8-1S	COCH	3660.60	3660.60	SST	1														
NOR	30/8-1S	COCH	3664.60	3664.60	SST	1														
NOR	30/8-1S	COCH	3669.30	3669.30	SST	1			1	1	1	1	1			1	1			
NOR	30/8-1S	COCH	3674.70	3674.70	SST	1														
NOR	30/8-1S	COCH	3678.70	3678.70	SST	1														
NOR	30/8-1S	COCH	3682.40	3682.40	SST	1			1	1	1	1	1				1			
NOR	30/8-1S	COCH	3687.50	3687.50	SST	1														
NOR	30/8-1S	COCH	3688.80	3688.80	COAL	1												1		
NOR	30/8-1S	COCH	3689.70	3689.70	SST	1														
NOR	30/8-1S	COCH	3694.80	3694.80	COAL	1												1		
NOR	30/8-1S	DC	3680.00	3695.00																1
NOR	30/8-1S	COCH	3696.20	3696.20	SST	1			1	1	1	1	1				1			
NOR	30/8-1S	COCH	3708.50	3708.50	SST	1														
NOR	30/8-1S	COCH	3714.50	3714.50	COAL	1												1		
NOR	30/8-1S	COCH	3717.10	3717.10	SST	1														
NOR	30/8-1S	COCH	3723.50	3723.50	SST	1														
NOR	30/8-1S	COCH	3724.30	3724.30	SST	1			1	1	1	1	1				1			
NOR	30/8-1S	DC	3710.00	3725.00																1
NOR	30/8-1S	COCH	3728.15	3728.15	SST	1														
NOR	30/8-1S	COCH	3733.40	3733.40	COAL	1												1		
NOR	30/8-1S	COCH	3735.50	3735.50	SST	1														
NOR	30/8-1S	COCH	3740.60	3740.60	SST	1			1	1	1	1	1			1	1			
NOR	30/8-1S	COCH	3740.90	3740.90	SST	1														
NOR	30/8-1S	COCH	3741.70	3741.70	SST	1			1	1	1	1	1				1			
NOR	30/8-1S	COCH	3753.50	3753.50	SLST	1														
NOR	30/8-1S	DC	3740.00	3755.00	SLST/CLYST															1
NOR	30/8-1S	DC	3777.00	3780.00	COAL	1		1	1	1	1	1	1			1	1			
NOR	30/8-1S	DC	3790.00	3792.00	COAL															
NOR	30/8-1S	DC	3792.00	3795.00	COAL	1														
NOR	30/8-1S	DC	3805.00	3807.00	COAL	1												1		
NOR	30/8-1S	DC	3800.00	3815.00	COAL/SLST/CLYST															1
NOR	30/8-1S	DC	3862.00	3865.00														1		
NOR	30/8-1S	DC	3860.00	3875.00																1
NOR	30/8-1S	DC	3882.00	3885.00	SST	1			1	1	1	1	1			1	1			
NOR	30/8-1S	DC	3885.00	3887.00	SST/COAL/LST	1			1	1	1	1	1				1			
NOR	30/8-1S	DC	3887.00	3890.00	SST/COAL/LST															1
NOR	30/8-1S	DC	3920.00	3935.00	SLST/CLYST/COAL	1														1
NOR	30/8-1S	DC	3945.00	3947.00	COAL	1												1		
NOR	30/8-1S	DC	3972.00	3975.00	COAL/LST/CLYST/SST	1														



Table 1.3 Samples and analyses (continued)

Cty	Well	Type	Upper Depth (MD m RKB)	Lower Depth (MD m RKB)	Lithology, remarks	Rock Eval	REx	Py-GC	Extr / Asph.	MPLC	TLC - FID	GC - FID SAT	GC - MSD SAT	MRM	SMS	GC - MSD ARO	Isot EOM Fract.	VR	Visual kerogen / SCI	Headsp. / occl. gas
NOR	30/8-1S	DC	3980.00	3995.00	CLYST															1
NOR	30/8-1S	DC	3997.00	4000.00	COAL/CLYST/SST	1		1	1	1	1	1	1				1			
NOR	30/8-1S	DC	4012.00	4015.00	COAL/SST	1														
NOR	30/8-1S	DC	4030.00	4032.00	COAL/SST	1														
NOR	30/8-1S	DC	4040.00	4042.00	COAL/CLYST/SST	1														
NOR	30/8-1S	DC	4047.00	4050.00	CLYST/COAL													1		
NOR	30/8-1S	DC	4040.00	4055.00	COAL/CLYST															1
NOR	30/8-1S	DC	4062.00	4065.00	COAL/CLYST/SST	1														
NOR	30/8-1S	DC	4072.00	4075.00	COAL/CLYST/SST	1														
NOR	30/8-1S	DC	4077.00	4080.00	COAL/CLYST	1		1	1	1	1	1	1				1			
NOR	30/8-1S	DC	4092.00	4095.00	CLYST/SST/COAL	1														
NOR	30/8-1S	DC	4097.00	4100.00	CLYST/SST	1														
NOR	30/8-1S	DC	4100.00	4115.00	SST/CLYST															1
NOR	30/8-1S	DC	4147.00	4150.00	CLYST													1		
NOR	30/8-1S	DC	4175.00	4190.00	CLYST	1														1
NOR	30/8-1S	DC	4247.00	4250.00	CLYST													1		
NOR	30/8-1S	DC	4262.00	4265.00	CLYST/COAL	1														1
NOR	30/8-1S	DC	4335.00	4350.00	CLYST	1														1
NOR	30/8-1S	DC	4347.00	4350.00	CLYST/SLST/SST													1		
NOR	30/8-1S	ADD	4350.00	4350.00	Ancothem mud	1		1	1	1	1	1	1			1	1			
NOR	30/8-1S	DC	4410.00	4425.00	CLYST/SLST															1
NOR	30/8-1S	DC	4447.00	4450.00	CLYST/SLST														1	
NOR	30/8-1S	DC	4485.00	4500.00	CLYST															1
NOR	30/8-1S	DC	4545.00	4547.00	CLYST														1	
NOR	30/8-1S	DC	4560.00	4575.00	CLYST															1
NOR	30/8-1S	DC	4647.00	4650.00	CLYST/SLST														1	
NOR	30/8-1S	DC	4682.00	4685.00	SLST														1	
Total number of analyses						129	0	16	35	32	32	32	32	0	0	17	32	40	41/17	44



TABLE: 2.1

ROCK EVAL SCREENING DATA, WELL NOR:30/8-1S

Depth (m)	Lithology	Type	Tmax DegC	S1 kg/t	S2 kg/t	TOC %	HI	PI	Analysing Company
2540.00	LST/CLYST	DC		0.5	0.3	0.4	80	0.59	NORSK HYDRO
2850.00	ADD	MUD	420	0.8	0.9	1.0	94	0.47	NORSK HYDRO
3360.00	LST	DC	419	1.6	1.0	0.6	155	0.63	NORSK HYDRO
3362.00	BULK	DC	429	1.3	0.7	0.6	123	0.64	NORSK HYDRO
3365.00	BULK	DC	438	1.1	1.0	0.8	137	0.51	NORSK HYDRO
3367.00	BULK	DC	437	1.7	4.3	2.3	190	0.28	NORSK HYDRO
3370.00	CLYST/LST	DC	436	2.0	6.9	3.2	215	0.23	NORSK HYDRO
3372.00	BULK	DC	436	1.8	5.3	3.1	173	0.25	NORSK HYDRO
3375.00	BULK	DC	437	1.8	5.6	3.4	166	0.25	NORSK HYDRO
3377.00	BULK	DC	437	1.9	4.7	2.5	185	0.29	NORSK HYDRO
3380.00	BULK	DC	435	1.8	4.0	2.7	150	0.30	NORSK HYDRO
3382.00	BULK	DC	436	1.8	3.7	2.1	178	0.32	NORSK HYDRO
3385.00	BULK	DC	438	1.4	2.7	2.5	109	0.33	NORSK HYDRO
3387.00	SLST/CLYST/	DC	440	2.2	6.2	5.7	109	0.26	NORSK HYDRO
3390.00	BULK	DC	434	1.7	6.2	5.1	122	0.22	NORSK HYDRO
3392.00	BULK	DC	439	1.5	7.0	3.3	211	0.18	NORSK HYDRO
3395.00	BULK	DC	439	1.7	6.8	3.8	179	0.20	NORSK HYDRO
3397.00	BULK	DC	435	1.6	10.6	4.2	255	0.13	NORSK HYDRO
3400.00	BULK	DC	438	1.9	12.1	4.2	292	0.13	NORSK HYDRO
3402.00	BULK	DC	441	1.4	6.7	3.3	203	0.17	NORSK HYDRO
3405.00	SLST/CLYST/	DC	437	1.5	12.4	3.7	332	0.11	NORSK HYDRO
3407.00	BULK	DC	438	1.0	7.9	2.7	293	0.11	NORSK HYDRO
3410.00	BULK	DC	440	1.0	3.7	3.4	108	0.21	NORSK HYDRO
3412.00	BULK	DC	437	1.0	5.1	2.0	246	0.16	NORSK HYDRO
3415.00	BULK	DC	438	0.9	7.3	2.4	308	0.11	NORSK HYDRO
3420.00	BULK	DC	438	0.9	5.0	2.6	193	0.15	NORSK HYDRO
3422.00	BULK	DC	439	1.0	5.7	2.7	207	0.15	NORSK HYDRO
3425.00	BULK	DC	441	1.0	6.8	2.8	246	0.12	NORSK HYDRO
3427.00	SLST/CLYST/	DC	439	0.9	5.0	2.3	218	0.16	NORSK HYDRO
3430.00	BULK	DC	441	0.9	6.4	2.3	281	0.12	NORSK HYDRO
3432.00	BULK	DC	442	0.6	4.7	1.7	271	0.11	NORSK HYDRO
3435.00	BULK	DC	439	0.8	5.9	2.1	285	0.12	NORSK HYDRO
3437.00	BULK	DC	440	0.8	4.0	2.0	204	0.17	NORSK HYDRO

TABLE: 2.1



## ROCK EVAL SCREENING DATA, WELL NOR:30/8-1S (cont'd)

Depth (m)	Lithology	Type	Tmax DegC	S1 kg/t	S2 kg/t	TOC %	HI	PI	Analysing Company
3440.00	CLYST/SLST	DC	439	1.1	6.3	2.4	268	0.15	NORSK HYDRO
3442.00	BULK	DC	439	0.8	3.8	1.6	234	0.17	NORSK HYDRO
3445.00	BULK	DC	441	0.9	4.6	2.3	197	0.16	NORSK HYDRO
3447.00	BULK	DC	438	0.9	4.7	1.9	250	0.16	NORSK HYDRO
3450.00	BULK	DC	439	1.2	6.1	2.4	252	0.17	NORSK HYDRO
3452.00	BULK	DC	438	1.0	4.8	1.8	273	0.17	NORSK HYDRO
3455.00	BULK	DC	440	1.1	4.6	2.0	226	0.20	NORSK HYDRO
3457.50	SLST	COCH	440	1.5	1.5	1.1	130	0.50	NORSK HYDRO
3460.40	SLST	COCH	444	0.9	1.1	1.0	114	0.45	NORSK HYDRO
3462.00	CLYST	DC	440	1.0	8.0	2.9	276	0.11	NORSK HYDRO
3465.00	BULK	DC	440	0.8	4.7	1.9	246	0.14	NORSK HYDRO
3470.00	BULK	DC	442	1.0	3.3	1.8	183	0.23	NORSK HYDRO
3475.00	SST/SLST	DC	440	1.0	2.5	1.8	138	0.28	NORSK HYDRO
3480.00	BULK	DC	439	1.5	4.8	2.9	167	0.24	NORSK HYDRO
3485.00	BULK	DC	441	1.4	3.0	2.0	150	0.32	NORSK HYDRO
3490.00	CLYST/SLST	DC	440	0.8	3.0	2.1	147	0.20	NORSK HYDRO
3495.00	BULK	DC	441	0.9	3.5	2.5	141	0.20	NORSK HYDRO
3500.00	SLST/CLYST	DC	441	1.2	9.6	3.2	302	0.11	NORSK HYDRO
3505.00	BULK	DC	440	0.7	4.4	2.5	181	0.14	NORSK HYDRO
3510.00	SLST/CLYST	DC	441	0.8	5.9	2.7	219	0.12	NORSK HYDRO
3515.00	BULK	DC	437	1.2	9.7	3.5	279	0.11	NORSK HYDRO
3520.00	BULK	DC	438	0.9	5.6	2.9	193	0.14	NORSK HYDRO
3526.50	SLST	COCH	440	1.1	5.1	3.4	151	0.18	NORSK HYDRO
3555.00	ADD	MUD	373	0.8	1.7	1.0	175	0.33	NORSK HYDRO
3563.20	SST	COCH		1.1	0.1	0.2	47	0.94	NORSK HYDRO
3567.60	SST	COCH		1.1	0.1	0.1	38	0.96	NORSK HYDRO
3569.70	SH	COCH	440	4.1	38.9	14.4	269	0.10	NORSK HYDRO
3571.50	SST	COCH		1.2	0.4	0.4	103	0.77	NORSK HYDRO
3576.30	SST	COCH		1.1	0.2	0.2	89	0.86	NORSK HYDRO
3579.60	SST	COCH		1.6	0.2	0.2	71	0.91	NORSK HYDRO
3581.70	SST	COCH		1.5	0.2	0.3	76	0.89	NORSK HYDRO
3586.50	SST	COCH		1.3	0.1	0.2	55	0.92	NORSK HYDRO
3591.60	SST	COCH		0.7	0.1	0.1	50	0.94	NORSK HYDRO



TABLE: 2.1

ROCK EVAL SCREENING DATA, WELL NOR:30/8-1S (cont'd)

Depth (m)	Lithology	Type	Tmax DegC	S1 kg/t	S2 kg/t	TOC %	HI	PI	Analysing Company
3596.50	SST	COCH		1.3	0.1	0.2	53	0.94	NORSK HYDRO
3601.50	SST	COCH		1.4	0.2	0.3	66	0.88	NORSK HYDRO
3603.70	SST	COCH		1.8	0.2	0.3	65	0.91	NORSK HYDRO
3606.60	SST	COCH		1.5	0.2	0.3	61	0.90	NORSK HYDRO
3608.70	SST	COCH		1.6	0.1	0.2	45	0.95	NORSK HYDRO
3610.70	SST	COCH		1.3	0.1	0.2	37	0.95	NORSK HYDRO
3614.10	SST	COCH		0.9	0.1	0.1	58	0.93	NORSK HYDRO
3616.90	SST	COCH		1.7	0.1	0.2	37	0.96	NORSK HYDRO
3619.30	SST	COCH		1.5	0.2	0.1	146	0.89	NORSK HYDRO
3623.70	SST	COCH		1.6	0.1	0.3	28	0.95	NORSK HYDRO
3628.70	SST	COCH		1.5	0.1	0.2	35	0.96	NORSK HYDRO
3633.50	SST	COCH		1.5	0.1	0.2	41	0.94	NORSK HYDRO
3637.90	SST	COCH		1.6	0.2	0.3	81	0.88	NORSK HYDRO
3639.10	SST	COCH	441	5.9	42.4	18.0	235	0.12	NORSK HYDRO
3640.50	COAL	COCH	441	24.6	221.1	84.3	262	0.10	NORSK HYDRO
3643.50	SST	COCH		0.5	0.7	0.9	85	0.41	NORSK HYDRO
3649.60	SST	COCH		1.5	0.1	0.2	23	0.97	NORSK HYDRO
3651.60	SST	COCH		1.3	0.3	0.3	84	0.83	NORSK HYDRO
3655.40	SST	COCH		1.7	0.2	0.3	70	0.88	NORSK HYDRO
3660.60	SST	COCH		2.3	0.1	0.3	43	0.95	NORSK HYDRO
3664.60	SST	COCH		1.3	0.2	0.3	63	0.85	NORSK HYDRO
3669.30	SST	COCH		2.1	0.2	0.3	77	0.90	NORSK HYDRO
3674.70	SST	COCH		1.6	0.1	0.2	52	0.94	NORSK HYDRO
3678.70	SST	COCH		1.4	0.2	0.3	88	0.86	NORSK HYDRO
3682.40	SST	COCH		1.8	0.2	0.3	78	0.89	NORSK HYDRO
3687.50	SST	COCH		2.0	0.4	0.5	87	0.83	NORSK HYDRO
3688.80	COAL	COCH	447	25.0	177.7	82.3	216	0.12	NORSK HYDRO
3689.70	SST	COCH	446	0.6	0.7	0.9	76	0.47	NORSK HYDRO
3694.80	COAL	COCH	449	19.7	159.5	73.7	216	0.11	NORSK HYDRO
3696.20	SST	COCH	448	1.1	0.6	0.9	66	0.64	NORSK HYDRO
3708.50	SST	COCH	449	0.3	0.4	0.5	85	0.43	NORSK HYDRO
3714.50	COAL	COCH	447	16.6	162.0	75.8	214	0.09	NORSK HYDRO
3717.10	SST	COCH	451	0.4	0.8	1.1	68	0.32	NORSK HYDRO



TABLE: 2.1

ROCK EVAL SCREENING DATA, WELL NOR:30/8-1S (cont'd)

Depth (m)	Lithology	Type	Tmax DegC	S1 kg/t	S2 kg/t	TOC %	HI	PI	Analysing Company
3723.50	SST	COCH	447	0.6	0.5	0.6	84	0.58	NORSK HYDRO
3724.30	SST	COCH		0.6	0.2	0.3	77	0.73	NORSK HYDRO
3728.15	SST	COCH		0.7	0.3	0.3	108	0.70	NORSK HYDRO
3733.40	SST	COCH	451	1.2	3.7	2.2	165	0.25	NORSK HYDRO
3735.50	SST	COCH	450	0.5	0.5	0.6	89	0.52	NORSK HYDRO
3740.60	SST	COCH		0.5	0.2	0.2	124	0.70	NORSK HYDRO
3740.90	SST	COCH	449	2.3	5.9	2.7	217	0.28	NORSK HYDRO
3741.70	SST	COCH	449	4.2	12.4	5.2	239	0.25	NORSK HYDRO
3753.50	SLST	COCH	456	0.2	0.5	1.1	43	0.33	NORSK HYDRO
3780.00	COAL	DC	450	25.2	163.0	64.1	254	0.13	NORSK HYDRO
3795.00	BULK	DC	450	21.4	139.8	77.2	181	0.13	NORSK HYDRO
3807.00	SH/COAL	DC	448	20.3	124.3	56.2	221	0.14	NORSK HYDRO
3885.00	SST	DC	438	2.2	9.2	5.8	158	0.19	NORSK HYDRO
3887.00	SST/COAL/LS	DC	442	2.4	13.8	7.4	187	0.15	NORSK HYDRO
3935.00	BULK	DC	445	0.6	3.0	2.5	122	0.16	NORSK HYDRO
3947.00	COAL/SST/SH	DC	449	9.8	77.7	50.6	153	0.11	NORSK HYDRO
3975.00	BULK	DC	454	8.8	51.4	24.4	211	0.15	NORSK HYDRO
4000.00	COAL/CLYST/	DC	450	19.6	147.6	61.8	239	0.12	NORSK HYDRO
4015.00	BULK	DC	451	15.3	119.5	52.8	226	0.11	NORSK HYDRO
4032.00	BULK	DC	449	9.5	77.3	37.3	208	0.11	NORSK HYDRO
4042.00	BULK	DC	452	8.5	70.2	30.3	231	0.11	NORSK HYDRO
4065.00	BULK	DC	451	5.4	34.7	18.5	188	0.14	NORSK HYDRO
4075.00	BULK	DC	453	8.2	68.0	38.5	176	0.11	NORSK HYDRO
4080.00	COAL/CLYST	DC	454	15.9	118.5	64.7	183	0.12	NORSK HYDRO
4095.00	BULK	DC	451	4.6	31.6	17.4	182	0.13	NORSK HYDRO
4100.00	BULK	DC	452	6.1	39.8	22.2	179	0.13	NORSK HYDRO
4190.00	BULK	DC	444	0.7	2.9	2.2	129	0.20	NORSK HYDRO
4265.00	BULK	DC	446	5.6	42.5	22.9	186	0.12	NORSK HYDRO
4350.00	SH	DC	447	0.9	2.9	2.4	122	0.24	NORSK HYDRO
4350.00	ADD	MUD	367	0.2	1.6	1.0	165	0.09	NORSK HYDRO

TABLE: 2.2

VITRINITE REFLECTANCE Ro (average values), WELL NOR:30/8-1S

Depth (m)	Lithology	Type	Population I		Population II		Analysing Company
			%Ro	n	%Ro	n	
1380.00	SH	DC	0.46	( 20)			GEOLABUK
1440.00	SST/SH	DC	0.51	( 20)			GEOLABUK
1550.00	SH/SST	DC	0.40	( 20)			GEOLABUK
1650.00	SH	DC	0.39	( 20)			GEOLABUK
1750.00	SH	DC	0.45	( 20)			GEOLABUK
1850.00	SH	DC	0.49	( 14)			GEOLABUK
1950.00	SH	DC	0.48	( 14)			GEOLABUK
2050.00	SH/MRL	DC	0.46	( 10)			GEOLABUK
2150.00	SH	DC	0.43	( 4)			GEOLABUK
2250.00	SH/SST	DC	0.41	( 20)			GEOLABUK
2350.00	SH	DC	0.41	( 20)			GEOLABUK
2445.00	SST/SH	DC	0.38	( 14)			GEOLABUK
2550.00	SH/CALC	DC	0.38	( 5)			GEOLABUK
2650.00	SH	DC	0.37	( 12)			GEOLABUK
2750.00	SH	DC	0.41	( 7)			GEOLABUK
2850.00	SH	DC	0.43	( 4)			GEOLABUK
2950.00	SH	DC	0.37	( 12)			GEOLABUK
3050.00	SH	DC	0.41	( 3)			GEOLABUK
3150.00	SH	DC	0.53	( 1)			GEOLABUK
3252.00	SH	DC	0.50	( 4)			GEOLABUK
3360.00	LST	DC	0.60	( 7)			GEOLABUK
3462.00	CLYST	DC	0.53	( 20)			GEOLABUK
3540.00	SH/SLT	DC	0.69	( 20)			GEOLABUK
3569.70	SH	COCH	0.72	( 20)			GEOLABUK
3640.50	COAL	COCH	0.75	( 20)			GEOLABUK
3688.80	COAL	COCH	0.85	( 20)			GEOLABUK
3694.80	COAL	COCH	0.82	( 12)	0.93	( 18)	GEOLABUK
3714.50	COAL	COCH	0.93	( 30)			GEOLABUK
3733.40	SST	COCH	0.91	( 11)			GEOLABUK
3807.00	SH/COAL	DC	0.93	( 20)			GEOLABUK
3865.00	SH/SST	DC	1.01	( 20)			GEOLABUK
3947.00	COAL/SST/SH	DC	1.09	( 20)			GEOLABUK
4050.00	SH/COAL/SST	DC	1.19	( 20)			GEOLABUK

TABLE: 2.2



VITRINITE REFLECTANCE Ro (average values), WELL NOR:30/8-1S (cont'd)

Depth (m)	Lithology	Type	Population I		Population II		Analysing Company
			%Ro	n	%Ro	n	
4150.00	SH	DC	1.21	( 13)			GEOLABUK
4250.00	SH	DC	0.85	( 6)			GEOLABUK
4350.00	SH	DC	1.06	( 20)			GEOLABUK
4450.00	SH	DC	1.24	( 20)			GEOLABUK
4547.00	SH	DC	1.22	( 20)			GEOLABUK
4650.00	RFL/SH	DC	1.29	( 20)			GEOLABUK
4685.00	RFL	DC	1.31	( 7)			GEOLABUK

Table 2.3 Organic petrographic data (reflected light) and comments on reflectance measurements

Depth (m)	Sample type	Amorphinite content	Bitumen content	Phytoclasts						Comments	UV Fluorescence			VR	Comments		
				Content	Composition (%)				Vitrinite		Inertinite / reworked	Form	Content			Colour	Confidence
					Algae	Spores	Cuticle	Resin									
1380	DC	Mod.	-	Low	-	Trace	-	-	60	40		Spores	Trace	Y/O	D	Calcareous	
1440	DC	Mod.	-	Very Low	-	Trace	-	-	30	70		Spores	Trace	Y/O	D	70% sst.	
1550	DC	Low-Mod.	-	Trace	-	Trace	-	-	30	70		Spores	Trace	Y-Y/O	D	20% sst.	
1650	DC	Mod.	-	Low	-	Trace	-	-	30	70		Spores	Trace	Y-Y/O	D	-	
1750	DC	Low	-	Low	-	-	-	-	10	90		-	-	-	D	Iron oxide specks	
1850	DC	Low	-	Low	-	-	-	-	Trace	100		-	-	-	D	-	
1950	DC	Low	-	Low	-	Trace	-	-	10	90		Spores	Trace	Y/O-LO	D	Marly	
2050	DC	Low	-	Very Low	-	Trace	-	-	-	100		Spores	Trace	MO	D	10% marl	
2150	DC	Low	-	Trace	-	Trace	-	-	Trace	Trace		Spores	Trace	Y/O	D	Calcareous. Tr. of haematitic cuttings	
2250	DC	Low	-	Trace	-	-	-	-	80	20		-	-	-	D	20% sst.	
2350	DC	Low-Mod.	-	Low-Mod.	-	Trace	-	-	10	90		Spores	Trace	Y/O	D	Iron oxide specks	
2445	DC	Low	-	Low	-	-	-	-	10	90	Amorphinite degraded	-	-	-	D	70% sst., Tr. glauc., Iron oxide specks	
2550	DC	Low	-	Trace	-	Trace	-	-	-	100		Spores	Trace	Y/O-LO	D	20% carbonate, Tr. sst	
2650	DC	Low	-	Very Low	-	Trace	-	-	-	100		Spores	Trace	Y-Y/O	D	Iron oxide specks	
2750	DC	Trace	-	Very Low	-	Trace	-	-	-	100		Spores	Trace	Y-Y/O	D	-	
2850	DC	Low	-	Low	-	Trace	-	-	-	100		Spores	Trace	Y/O	D	Iron oxide specks	
2950	DC	Very Low	-	Low-Mod.	Trace	Trace	-	-	-	100		Algae Spores	Trace Trace	Y Y-Y/O	D	-	
3050	DC	Trace	-	Low-Mod.	-	Trace	-	-	-	100	Phytoclasts and amorphinite degraded	Spores	Trace	Y-Y/O	E	Phytoclasts and amorphinite degraded	
3150	DC	Very Low	-	Low-Mod.	-	Trace	-	-	-	100	Phytoclasts degraded	Spores	Trace	Y/O+LO	E	Phytoclasts degraded	
3252	DC	Low	-	Low-Mod.	-	Trace	-	-	-	100		Spores	Low	Y/O-LO	E	Calcareous. Forams	
3360	DC	Low	-	Moderate	-	Trace	-	-	-	100		Spores	Trace	LO	D	Calcareous. Forams	
3462	DC	Var.-Mod.	-	Moderate	-	Trace	-	-	-	100		Spores	Trace	MO	C	-	
3540	DC	Mod-Rich	-	Moderate	-	Trace	-	-	10	90		Spores	Trace	DO	C	Tr. carbonate	
3569	DC	Mod-Rich	-	Rich	-	10	-	-	-	70	Rather pyritic	Spores	Mod.-Rich	MO	C	Rather pyritic	
3640.5	COCH	-	-	Total	-	Trace	-	-	-	20	Coal	Spores	Trace	L-MO	B	Coal	
3688.8	COCH	-	-	Total	-	Trace	-	Trace	-	20	Coal	Resin Spores	Trace Trace	MO MO	A	Coal	
3694.8	COCH	-	-	Total	-	Trace	-	Trace	-	10	Coal	Resin Spores	Trace Trace	MO L- MO	C	Coal. Lower result on cavings?	
3714.5	COCH	-	-	Total	-	Trace	-	Trace	-	10	Coal	Resin Spores	Trace Trace	MO L+MO	B	Coal	
3733.4	COCH	-	-	Moderate	-	-	-	-	-	10	Sst. with interstitial coal frags. Coal degraded + oxidised - washed into sand as peat fragments.	-	-	-	D	100% sst with interstitial coal frgmts. - degraded	
3807	DC	Var. Low-Rich	-	Mod.-Rich	-	Trace	-	-	-	20	20% coal - brecciated	Spores	Trace	DO (very faint)	C	Mixed shale lithologies + 20% coal - brecciated	



Table 2.3 Organic petrographic data (reflected light) and comments on reflectance measurements (continued)

Depth (m)	Sample type	Amorphinite content	Bitumen content	Phytoclasts							Comments	UV Fluorescence			VR	Comments
				Content	Composition (%)				Vitrinite	Inertinite / reworked		Form	Content	Colour		
					Algae	Spores	Cuticle	Resin								
3865	DC	Var. Low-Mod.	-	Low-Mod.	-	Trace	-	-		30	Tr. coal of variable Ro - caved	Spores	Trace	DO	D	20% sst, tr. coal. Variable liths. + R.o. High level of caving. Iron oxides.
3947	DC	Var. Mod.-Rich	-	Rich	-	-	-	-		100	70% coal/carbargillite composed almost wholly of Inertinite farg.	-	-	-	C	70% coal/carbarg. 20% sst. Iron oxides
4050	DC	Var. Low-Rich	-	Rich	-	-	-	-		50	40% mixed coal lithologies. Some roasting.	-	-	-	D	20% Sst. 40% mixed coal lithologies. Coal shows oxidation rims due to roasting while drying. Iron oxides.
4150	DC	Mod-Rich	-	Very Low	-	-	-	-		100	-	-	-	-	E	Suspect high level of mud cake contamination.
4250	DC	Mod-Rich	-	Trace	-	Trace	-	-		100	Phytoclasts degraded. Cavings?	Spores	Trace	Y/O	E	Iron oxide specks. Phytoclasts degraded. Result assumed to be on caved material.
4350	DC	Mod-Rich	-	Low	-	-	-	-		70	Variable Ro - caving?	-	-	-	D	Tr. rock flour. Variable Ro.
4450	DC	Mod.	-	Very Low	-	-	-	-		70	Phytoclasts degraded	-	-	-	D	Iron oxides. Phytoclasts degraded.
4547	DC	Mod.	-	Low	-	-	-	-		80	-	-	-	-	D	Iron oxides
4650	DC	Low-Mod.	-	Very Low	-	-	-	-		80	-	-	-	-	D	70% rock flour. Iron oxides.
4685	DC	Low-Mod.	-	Vrt. Barren	-	-	-	-		Trace	Phyt. restricted to Traces of shale and marl	-	-	-	D	100% rock flour. Trs. marl + shale

Table 2.4 Spore colour index (SCI)

Depth (m)	Sample Type	SCI	Depth (m)	Sample Type	SCI
1370-1380	Ctgs	2.5	3145-3150	Ctgs	4.0 7.0R
1540-1550	Ctgs	3.0	3357-3360	Ctgs	4.0
1740-1750	Ctgs	3.5	3380-3382	Ctgs	4.5
1940-1950	Ctgs	3.5	3407-3410	Ctgs	4.5
2140-2150	Ctgs	3.0	3432-3435	Ctgs	5.0
2340-2350	Ctgs	3.5	3460.4	Core	5.5
2530-2540	Ctgs	3.5 5.5R	3487-3490	Ctgs	6.0
2740-2750	Ctgs	3.5	3507-3510	Ctgs	6.0
2940-2950	Ctgs	4.0			

R = Reworked

Table 3.1 Concentration and composition of headspace gas hydrocarbons

Depth (m)	C1	C2	C3	iC4	nC4	C5+	Sum C1-C4	Sum C2-C4	wet- ness (vol%)	iC4 / nC4 (v/v)
	(ul/kg dry rock)									
1370	1626	235	95	11	27	65	1994	368	18.5	0.41
1510	270	67	42	9	28	90	416	146	35.1	0.32
1670	2359	48	22	8	14	64	2451	92	3.7	0.57
1810	6071	68	28	8	10	28	6185	114	1.8	0.80
1970	8281	157	50	21	9	29	8518	237	2.8	2.33
2110	9113	270	126	75	88	319	9672	559	5.8	0.85
2270	6395	823	332	67	68	139	7685	1290	16.8	0.99
2430	7544	1257	698	138	187	132	9824	2280	23.2	0.74
2570	4212	2476	8273	3961	7705	12125	26627	22415	84.2	0.51
2730	3690	646	997	203	763	756	6299	2609	41.4	0.27
2870	7565	2119	787	105	270	340	10846	3281	30.2	0.39
2970	4749	1709	901	142	198	309	7699	2950	38.3	0.72
3070	859	817	813	109	107	132	2705	1846	68.2	1.02
3170	1159	1253	2654	548	696	522	6310	5151	81.6	0.79
3215	1194	1069	2383	526	724	439	5896	4702	79.8	0.73
3245	902	779	2412	908	1244	967	6245	5343	85.6	0.73
3275	440	288	1885	1566	2511	5677	6690	6250	93.4	0.62
3305	597	545	2972	1926	3399	5429	9439	8842	93.7	0.57
3335	899	885	5195	2694	5918	8660	15591	14692	94.2	0.46
3365	7537	9014	27323	6382	16331	17191	66587	59050	88.7	0.39
3395	34835	19704	31737	4610	12170	8049	103056	68221	66.2	0.38
3425	30564	37054	106094	19394	63411	59721	256517	225953	88.1	0.31
3455	15974	14023	36462	9588	25275	30509	101322	85348	84.2	0.38
3485	102606	93140	255905	60238	166737	185579	678626	576020	84.9	0.36
3515	111041	72170	103923	15585	51928	42594	354647	243606	68.7	0.30
3545	37846	24906	49500	16805	43440	95334	172497	134651	78.1	0.39
3575	93963	23762	9079	1296	2577	5858	130677	36714	28.1	0.50
3620	35647	9136	6131	1250	2298	3167	54462	18815	34.5	0.54
3695	303907	32004	7784	1140	1805	5428	346640	42733	12.3	0.63
3725	693937	41602	8618	759	1714	2218	746630	52693	7.1	0.44
3755	385146	20902	5125	465	996	1309	412634	27488	6.7	0.47
3815	303844	23584	5883	618	1152	1679	335081	31237	9.3	0.54
3875	89649	6717	2182	348	573	857	99469	9820	9.9	0.61
3890	50966	12864	9236	2139	3251	6225	78456	27490	35	0.66
3935	41356	7659	4491	594	1328	1610	55428	14072	25.4	0.45
3995	88569	9588	2916	280	500	489	101853	13284	13	0.56
4055	153367	14620	3915	384	629	1039	172915	19548	11.3	0.61
4115	6434	1235	479	58	105	687	8311	1877	22.6	0.55
4190	4780	2596	5374	1411	4158	11185	18319	13539	73.9	0.34
4265	2629050	138583	62285	18000	39674	130755	2887592	258542	9	0.45
4350	21149	10511	15848	4861	13619	48216	65988	44839	68	0.36
4425	10145	6484	11327	3556	7902	21307	39414	29269	74.3	0.45
4500	12016	10634	16469	4616	8629	19464	52364	40348	77.1	0.53
4575	4104	1513	1787	622	742	1884	8768	4664	53.2	0.84

Table 3.2 Concentration and composition of occluded gas hydrocarbons

Depth (m)	C1	C2	C3	iC4	nC4	C5+	Sum C1-C4	Sum C2-C4	wet- ness (vol%)	iC4 / nC4 (v/v)
	(ul/kg dry rock)									
1370	13	8	11	1	8	9	41	28	68.3	0.13
1510	58	50	31	4	14	27	157	99	63.1	0.29
1670	28	18	12	3	6	25	67	39	58.2	0.50
1810	35	13	9	2	5	23	64	29	45.3	0.40
1970	56	13	16	12	9	65	106	50	47.2	1.33
2110	56	14	25	29	61	783	185	129	69.7	0.48
2270	86	97	167	52	91	381	493	407	82.6	0.57
2430	47	52	175	72	172	276	518	471	90.9	0.42
2570	62	67	319	217	704	5984	1369	1307	95.5	0.31
2730	37	35	41	14	88	478	215	178	82.8	0.16
2870	61	59	116	17	50	177	303	242	79.9	0.34
2970	42	40	130	33	56	160	301	259	86.1	0.59
3070	58	33	166	25	56	105	338	280	82.8	0.45
3170	41	21	218	55	187	270	522	481	92.2	0.29
3215	67	28	274	84	302	425	755	688	91.1	0.28
3245	74	27	272	156	517	1243	1046	972	92.9	0.30
3275	98	13	55	71	257	3449	494	396	80.2	0.28
3305	120	15	46	53	200	2725	434	314	72.4	0.26
3335	124	16	64	77	309	3859	590	466	79.0	0.25
3365	94	94	1656	1203	3997	15563	7044	6950	98.7	0.30
3395	220	651	3486	838	2773	2714	7968	7748	97.2	0.30
3425	188	87	1160	436	2011	2638	3882	3694	95.2	0.22
3455	183	162	1759	865	3318	7094	6287	6104	97.1	0.26
3485	132	206	2035	842	3635	8497	6850	6718	98.1	0.23
3515	179	619	3558	767	3088	2977	8211	8032	97.8	0.25
3545	471	59	332	141	741	4884	1744	1273	73.0	0.19
3575	3845	9900	5797	536	1066	787	21144	17299	81.8	0.50
3620	1445	2982	4104	804	2523	3580	11858	10413	87.8	0.32
3695	31749	17520	3807	237	456	314	53769	22020	41.0	0.52
3725	98714	32475	8331	427	844	388	140791	42077	29.9	0.51
3755	76548	23830	6658	379	762	394	108177	31629	29.2	0.50
3815	44234	17859	5205	289	615	335	68202	23968	35.1	0.47
3875	6505	3711	1753	160	526	676	12655	6150	48.6	0.30
3890	492	631	758	118	440	2086	2439	1947	79.8	0.27
3935	690	1305	1164	143	520	649	3822	3132	82.0	0.28
3995	4646	3735	2287	191	588	533	11447	6801	59.4	0.32
4055	26654	13139	3988	251	712	733	44744	18090	40.4	0.35
4115	1669	4375	2276	139	484	737	8943	7274	81.3	0.29
4190	144	137	549	203	835	2974	1868	1724	92.3	0.24
4265	10102	6318	2661	403	1323	9092	20807	10705	51.5	0.30
4350	772	575	725	328	1232	9807	3632	2860	78.7	0.27
4425	401	176	907	638	1972	16109	4094	3693	90.2	0.32
4500	326	242	1440	773	2178	10132	4959	4633	93.4	0.35
4575	630	155	514	261	591	3685	2151	1521	70.7	0.44

Table 3.3 Concentration and composition of headspace plus occluded gas hydrocarbons

Depth (m)	C1	C2	C3	iC4	nC4	C5+	Sum C1-C4	Sum C2-C4	wet- ness (vol%)	iC4 / nC4 (v/v)
	(ul/kg dry rock)									
1370	1639	243	106	12	35	74	2035	396	20.4	0.34
1510	328	117	73	13	42	117	573	245	47.1	0.31
1670	2387	66	34	11	20	89	2518	131	6.6	0.55
1810	6106	81	37	10	15	51	6249	143	2.7	0.67
1970	8337	170	66	33	18	94	8624	287	3.9	1.83
2110	9169	284	151	104	149	1102	9857	688	8.1	0.70
2270	6481	920	499	119	159	520	8178	1697	24.3	0.75
2430	7591	1309	873	210	359	408	10342	2751	29.7	0.58
2570	4274	2543	8592	4178	8409	18109	27996	23722	85.2	0.50
2730	3727	681	1038	217	851	1234	6514	2787	44.1	0.25
2870	7626	2178	903	122	320	517	11149	3523	32.9	0.38
2970	4791	1749	1031	175	254	469	8000	3209	41.8	0.69
3070	917	850	979	134	163	237	3043	2126	71.2	0.82
3170	1200	1274	2872	603	883	792	6832	5632	83.1	0.68
3215	1261	1097	2657	610	1026	864	6651	5390	82.1	0.59
3245	976	806	2684	1064	1761	2210	7291	6315	87.4	0.60
3275	538	301	1940	1637	2768	9126	7184	6646	91.7	0.59
3305	717	560	3018	1979	3599	8154	9873	9156	91.9	0.55
3335	1023	901	5259	2771	6227	12519	16181	15158	93.2	0.44
3365	7631	9108	28979	7585	20328	32754	73631	66000	90.4	0.37
3395	35055	20355	35223	5448	14943	10763	111024	75969	70.4	0.36
3425	30752	37141	107254	19830	65422	62359	260399	229647	88.3	0.30
3455	16157	14185	38221	10453	28593	37603	107609	91452	85.7	0.37
3485	102738	93346	257940	61080	170372	194076	685476	582738	85.1	0.36
3515	111220	72789	107481	16352	55016	45571	362858	251638	70.0	0.30
3545	38317	24965	49832	16946	44181	100218	174241	135924	78.0	0.38
3575	97808	33662	14876	1832	3643	6645	151821	54013	41.2	0.50
3620	37092	12118	10235	2054	4821	6747	66320	29228	50.7	0.43
3695	335656	49524	11591	1377	2261	5742	400409	64753	19.1	0.61
3725	792651	74077	16949	1186	2558	2606	887421	94770	13.3	0.46
3755	461694	44732	11783	844	1758	1703	520811	59117	14.4	0.48
3815	348078	41443	11088	907	1767	2014	403283	55205	16.8	0.51
3875	96154	10428	3935	508	1099	1533	112124	15970	17.7	0.46
3890	51458	13495	9994	2257	3691	8311	80895	29437	37.7	0.61
3935	42046	8964	5655	737	1848	2259	59250	17204	32.2	0.40
3995	93215	13323	5203	471	1088	1022	113300	20085	21.6	0.43
4055	180021	27759	7903	635	1341	1772	217659	37638	21.2	0.47
4115	8103	5610	2755	197	589	1424	17254	9151	62.7	0.33
4190	4924	2733	5923	1614	4993	14159	20187	15263	77.0	0.32
4265	2639152	144901	64946	18403	40997	139847	2908399	269247	9.6	0.45
4350	21921	11086	16573	5189	14851	58023	69620	47699	69.0	0.35
4425	10546	6660	12234	4194	9874	37416	43508	32962	77.0	0.42
4500	12342	10876	17909	5389	10807	29596	57323	44981	79.7	0.50
4575	4734	1668	2301	883	1333	5569	10919	6185	59.0	0.66

Table 4.1 Pyrolysis-GC results

City	Well Name	Datum Depth	End Depth	Type	Lithology Descr.	C1-C5 (%)	C1 (%)	C6+ (%)	C2-C5 (%)	C6-C14 (%)	C15+ (%)	GORP	n-octene / (m+p)-xylene	HI (mg/g TOC)
NOR	30/8-1S	3367	3370	DC	CLYST/LST	26.84	8.88	73.16	17.96	35.87	37.29	0.37	0.98	215
NOR	30/8-1S	3385	3387	DC	SLST/CLYST	29.77	11.24	70.22	18.53	37.43	32.79	0.42	1.66	109
NOR	30/8-1S	3402	3405	DC	SLST/CLYST	21.26	6.72	78.74	14.54	34.27	44.47	0.27	0.83	332
NOR	30/8-1S	3425	3427	DC	SLST/CLYST	20.77	6.09	79.24	14.68	35.72	43.52	0.26	0.57	218
NOR	30/8-1S	3437	3440	DC	CLYST/SLST	21.12	6.59	78.88	14.53	35.92	42.96	0.27	0.63	268
NOR	30/8-1S	3457.5	3457.5	COCH	SLST	36.7	15.83	63.3	20.87	37.72	25.58	0.58	1.32	130
NOR	30/8-1S	3460	3462	DC	CLYST	20.58	6.18	79.41	14.4	36.43	42.98	0.26	0.63	276
NOR	30/8-1S	3472	3475	DC	SST/SLST	27.75	10.31	72.24	17.44	34.64	37.6	0.38	0.89	138
NOR	30/8-1S	3487	3490	DC	CLYST/SLST	28.36	9.52	71.64	18.84	36.05	35.59	0.40	1.02	147
NOR	30/8-1S	3497	3500	DC	SLST/CLYST	23.1	8.56	76.9	14.54	32.56	44.34	0.30	0.81	302
NOR	30/8-1S	3507	3510	DC	SLST/CLYST	20.37	7.99	79.63	12.38	31.78	47.85	0.26	0.76	219
NOR	30/8-1S	3777	3780	DC	COAL	30.18	18.06	69.82	12.12	26.31	43.51	0.43	2.79	254
NOR	30/8-1S	3997	4000	DC	COAL/CLYST	31.08	17.71	68.92	13.37	23.66	45.26	0.45	3.20	239
NOR	30/8-1S	4077	4080	DC	COAL/CLYST	33.95	20.44	66.04	13.51	24.39	41.65	0.51	2.28	183
Drilling mud samples:														
NOR	30/8-1S		2850	ADD	KCI/PMPA	48.05	11.49	51.95	36.56	48.65	3.3	0.93	n.d.p.	
NOR	30/8-1S		3555	ADD	KCI/PMPA	36.19	6.86	63.82	29.33	44.46	19.36	0.57	6.69	
NOR	30/8-1S		4350	ADD	Ancotherm	29.46	4.62	70.53	24.84	50.69	19.84	0.42	33.50	

GORP = (C1 - C5) / C6+

n.d.p. = no determination possible



TABLE: 4.2

EXTRACTION/DEASPHALTING DATA (SEDIMENTS), WELL NOR:30/8-1S

Depth (m)	Lithology	Type	Rock (g)	EOM (mg)	ASP (mg)	EOM (%)	ASP (%)	EOM (ppm)	TOC (%)	EOM/TOC (%)	Analysing Company
2540.00	LST/CLYST	DC	7.8	16.5		0.21	2.8	2100	0.4	0.5	NORSK HYD
3360.00	LST	DC	25.0	77.1		0.31	3.9	3100	0.6	0.5	NORSK HYD
3370.00	CLYST/LST	DC	7.0	26.4		0.38	15.7	3800	3.2	0.1	NORSK HYD
3387.00	SLST/CLYST/	DC	7.5	23.1		0.31	15.9	3100	5.7	0.1	NORSK HYD
3405.00	SLST/CLYST/	DC	5.7	14.8		0.26	17.6	2600	3.7	0.1	NORSK HYD
3427.00	SLST/CLYST/	DC	11.5	20.5		0.18	18.5	1800	2.3	0.1	NORSK HYD
3440.00	CLYST/SLST	DC	8.8	17.2		0.20	17.8	2000	2.4	0.1	NORSK HYD
3457.50	SLST	COCH	21.0	53.4		0.25	10.2	2500	1.1	0.2	NORSK HYD
3462.00	CLYST	DC	5.1						2.9		NORSK HYD
3475.00	SST/SLST	DC	5.7						1.8		NORSK HYD
3475.00	SST/SLST	DC	5.7						1.8		NORSK HYD
3490.00	CLYST/SLST	DC	19.3	31.9		0.17	26.4	1700	2.1	0.1	NORSK HYD
3500.00	SLST/CLYST	DC	4.6						3.2		NORSK HYD
3510.00	SLST/CLYST	DC	19.6	49.5		0.25	22.6	2500	2.7	0.1	NORSK HYD
3563.20	SST	COCH	25.6	39.9		0.16	4.5	1600	0.2	1.0	NORSK HYD
3576.30	SST	COCH	14.0	25.4		0.18	8.2	1800	0.2	1.0	NORSK HYD
3586.50	SST	COCH	24.4	41.9		0.17	3.0	1700	0.2	0.9	NORSK HYD
3596.50	SST	COCH	24.0	38.9		0.16	2.6	1600	0.2	1.0	NORSK HYD
3606.60	SST	COCH	19.3	41.7		0.22	4.8	2200	0.3	0.8	NORSK HYD
3616.90	SST	COCH	27.1	40.4		0.15	3.8	1500	0.2	0.8	NORSK HYD
3633.50	SST	COCH	14.0	28.3		0.20	3.6	2000	0.2	0.9	NORSK HYD
3643.50	SST	COCH	22.1	18.4		0.08	19.9	800	0.9	0.1	NORSK HYD
3651.60	SST	COCH	14.0	28.3		0.20	7.3	2000	0.3	0.6	NORSK HYD
3669.30	SST	COCH	22.5	58.6		0.26	3.3	2600	0.3	0.8	NORSK HYD
3682.40	SST	COCH	14.0	35.5		0.25	4.5	2500	0.3	0.9	NORSK HYD
3696.20	SST	COCH	24.0	25.3		0.11	12.0	1100	0.9	0.1	NORSK HYD
3724.30	SST	COCH	23.0	29.0		0.13	8.5	1300	0.3	0.4	NORSK HYD
3740.60	SST	COCH	26.8	26.8		0.10	7.9	1000	0.2	0.6	NORSK HYD
3741.70	SST	COCH	5.3	12.8		0.24	15.0	2400	5.2	0.0	NORSK HYD
3780.00	COAL	DC	0.9	21.8		2.40	63.3	24000	64.1	0.0	NORSK HYD
3885.00	SST	DC	3.5	8.4		0.24	25.1	2400	5.8	0.0	NORSK HYD
3887.00	SST/COAL/LS	DC	10.6	16.3		0.15	30.6	1500	7.4	0.0	NORSK HYD
4000.00	COAL/CLYST/	DC	0.9	16.7		1.80	60.5	18000	61.8	0.0	NORSK HYD



TABLE: 4.2

EXTRACTION/DEASPHALTING DATA (SEDIMENTS), WELL NOR:30/8-1S (cont'd)

Depth (m)	Lithology	Type	Rock (g)	EOM (mg)	ASP (mg)	EOM (%)	ASP (%)	EOM (ppm)	TOC (%)	EOM/TOC (%)	Analysing Company
4080.00	COAL/CLYST	DC	0.9	12.9		1.39	48.2	13900	64.7	0.0	NORSK HYD

MUD SAMPLES (ALL VALUES RELATED TO DRIED MUD)

Depth (m)	Mud type	Dry mud (g)	EOM (mg)	EOM (wt % of mud)	ASP (wt% of EOM)	TOC (wt% of mud)	EOM/TOC (%)	ANALYSING COMPANY
2850	KCl/PMPA	27.03	2.0	0.013	72.0	0.99	0.01	NORSK HYDRO
3555	KCl/PMPA	25.91	14.4	0.087	19.6	0.96	0.09	NORSK HYDRO
4350	Ancotherm	32.37	18.4	0.087	59.6	0.98	0.09	NORSK HYDRO



TABLE: 4.3



## COMPOSITION OF DEASPHALTED EXTRACT (IATROSCAN), WELL NOR:30/8-1S

(all values in %)

Depth (m)	Lithology	Type	Hydrocarbons				Non-HC TOTAL	TOTAL HC/Non-HC	Analysing Company
			SAT	ARO	TOTAL	SAT/ARO			
2540.00	LST/CLYST	DC	59.0	6.0	65.0	9.8	35.0	1.9	NORSK HYDRO
3360.00	LST	DC	49.0	34.0	83.0	1.4	17.0	4.9	NORSK HYDRO
3370.00	CLYST/LST	DC	26.0	21.0	47.0	1.2	53.0	0.9	NORSK HYDRO
3387.00	SLST/CLYST/	DC	38.0	39.0	77.0	1.0	23.0	3.3	NORSK HYDRO
3405.00	SLST/CLYST/	DC	20.0	38.0	58.0	0.5	42.0	1.4	NORSK HYDRO
3427.00	SLST/CLYST/	DC	19.0	43.0	62.0	0.4	38.0	1.6	NORSK HYDRO
3440.00	CLYST/SLST	DC	25.0	38.0	63.0	0.7	37.0	1.7	NORSK HYDRO
3457.50	SLST	COCH	39.0	40.0	79.0	1.0	21.0	3.8	NORSK HYDRO
3490.00	CLYST/SLST	DC	21.0	50.0	71.0	0.4	29.0	2.4	NORSK HYDRO
3510.00	SLST/CLYST	DC	18.0	46.0	64.0	0.4	36.0	1.8	NORSK HYDRO
3563.20	SST	COCH	71.0	23.0	94.0	3.1	6.0	15.7	NORSK HYDRO
3576.30	SST	COCH	68.0	28.0	96.0	2.4	4.0	24.0	NORSK HYDRO
3586.50	SST	COCH	70.0	23.0	93.0	3.0	7.0	13.3	NORSK HYDRO
3596.50	SST	COCH	68.0	26.0	94.0	2.6	6.0	15.7	NORSK HYDRO
3606.60	SST	COCH	71.0	21.0	92.0	3.4	8.0	11.5	NORSK HYDRO
3616.90	SST	COCH	71.0	25.0	96.0	2.8	4.0	24.0	NORSK HYDRO
3633.50	SST	COCH	68.0	26.0	94.0	2.6	6.0	15.7	NORSK HYDRO
3643.50	SST	COCH	32.0	41.0	73.0	0.8	27.0	2.7	NORSK HYDRO
3651.60	SST	COCH	62.0	27.0	89.0	2.3	11.0	8.1	NORSK HYDRO
3669.30	SST	COCH	69.0	26.0	95.0	2.7	5.0	19.0	NORSK HYDRO
3682.40	SST	COCH	66.0	30.0	96.0	2.2	4.0	24.0	NORSK HYDRO
3696.20	SST	COCH	44.0	36.0	80.0	1.2	20.0	4.0	NORSK HYDRO
3724.30	SST	COCH	50.0	33.0	83.0	1.5	17.0	4.9	NORSK HYDRO
3740.60	SST	COCH	53.0	34.0	87.0	1.6	13.0	6.7	NORSK HYDRO
3741.70	SST	COCH	21.0	35.0	56.0	0.6	44.0	1.3	NORSK HYDRO
3780.00	COAL	DC	7.0	66.0	73.0	0.1	27.0	2.7	NORSK HYDRO
3885.00	SST	DC	28.0	34.0	62.0	0.8	38.0	1.6	NORSK HYDRO
3887.00	SST/COAL/LS	DC	26.0	47.0	73.0	0.6	27.0	2.7	NORSK HYDRO
4000.00	COAL/CLYST/	DC	8.0	66.0	74.0	0.1	26.0	2.8	NORSK HYDRO
4080.00	COAL/CLYST	DC	14.0	60.0	74.0	0.2	26.0	2.8	NORSK HYDRO

**TABLE: 4.3 (continued)**

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HYDRO

**COMPOSITION OF DEASPHALTED OIL (IATROSCAN), WELL NOR:30/8-1S**

(all values in %)

St.Depth (m)	En.Depth (m)	Name	Hydrocarbons				Non-HC TOTAL	TOTAL HC/Non-HC	Analysing Company
			SAT	ARO	TOTAL	SAT/ARO			
2850.00	2850.00	KCL/PMPA	38.0	24.0	62.0	1.6	38.0	1.6	NORSK HYDRO
4350.00	4350.00	ANCOTHER	25.0	3.0	28.0	8.3	72.0	0.4	NORSK HYDRO

Table 4.4 Saturated hydrocarbon peak ratios.

Depth and type	Lithology	Pr/n-C17	Ph/n-C18	(Pr/n-C17) / (Ph/n-C18)	Pr/Ph	n-C17 / (n-C17+n-C27)	CPI-1	CPI-2 (nC26:nC27)
2530-40m DC	lst/clyst	0.70	0.59	1.19	1.26	0.68	0.97	0.90
3357-60m DC	lst	0.91	0.78	1.16	1.26	0.71	1.00	0.87
3367-70m DC	clyst/lst	0.90	0.69	1.29	1.41	0.67	1.03	0.89
3385-87m DC	slst/clyst/lst	1.06	0.62	1.70	1.77	0.69	1.02	0.89
3402-05m DC	slst/clyst/lst	1.03	0.54	1.89	2.22	0.71	1.09	0.95
3425-27m DC	slst/clyst/lst	0.91	0.44	2.05	2.49	0.65	1.23	1.05
3437-40m DC	clyst/slst	0.91	0.47	1.95	2.22	0.66	1.14	1.00
3457.5 COCH	slst	0.94	0.75	1.24	1.40	0.75	0.97	0.89
3487-90m DC	clyst/slst	1.23	0.56	2.20	2.58	0.72	1.02	0.92
3507-10m DC	slst/clyst	1.52	0.46	3.33	3.89	0.65	1.20	1.02
3563.2 COCH	ssf	0.90	0.47	1.92	1.97	0.71	0.98	0.90
3576.5m COCH	ssf	0.77	0.44	1.72	1.94	0.73	0.97	0.90
3586.5 COCH	ssf	0.93	0.48	1.96	1.98	0.69	0.99	0.91
3596.5 COCH	ssf	0.90	0.47	1.90	1.84	0.68	0.97	0.90
3606.6 COCH	ssf	0.90	0.46	1.97	2.00	0.71	1.00	0.92
3616.9m COCH	ssf	0.94	0.48	1.97	1.94	0.68	0.96	0.90
3633.5m COCH	ssf	0.77	0.44	1.76	1.94	0.72	1.00	0.92
3643.5m COCH	ssf	0.99	0.54	1.83	2.35	0.74	0.98	0.91
3651.6m COCH	ssf	0.80	0.47	1.71	1.93	0.76	0.98	0.88
3669.3m COCH	ssf	1.01	0.51	2.00	2.01	0.71	0.95	0.90
3682.4m COCH	ssf	0.84	0.46	1.84	2.05	0.72	1.03	0.94
3696.2 COCH	ssf	1.54	0.64	2.41	2.51	0.65	1.07	0.92
3724.3m COCH	ssf	0.90	0.55	1.65	1.73	0.71	1.01	0.89
3740.6m COCH	ssf	1.37	0.59	2.34	2.33	0.67	0.99	0.92
3741.7m COCH	ssf	1.07	0.53	2.03	2.30	0.75	1.03	0.89
3777-80m DC	coal	0.73	0.44	1.67	1.90	0.77	1.04	0.94
3882-85m DC	ssf	0.78	0.39	1.99	2.05	0.64	0.99	0.90
3885-87m DC	ssf/coal/lst	0.76	0.39	1.98	2.06	0.66	1.04	0.94
3997-4000m DC	coal/clyst/ssf	0.70	0.23	3.00	2.94	0.65	1.11	0.91
4077-80m DC	coal/clyst	0.76	0.19	3.95	3.91	0.77	1.07	0.85
Drilling mud samples:								
2850m ADD	KCl/PMPA	0.90	0.61	1.48	1.35	0.69	1.22	0.94
4350m ADD	Ancotherm	0.58	0.08	6.95	5.50	0.23	0.96	0.98
Reference oil sample (NSO-1):								
biom02		0.68	0.56	1.21	1.43	0.78	1.07	0.89
biom02		0.67	0.55	1.20	1.39	0.80	1.01	0.86
biom02		0.72	0.62	1.15	1.29	0.72	1.07	0.98
biom09		0.67	0.54	1.24	1.49	0.75	1.00	0.90
biom10		0.69	0.57	1.20	1.40	0.67	1.09	0.92

For explanation of the variables see Appendix 3.



TABLE: 4.5

SATURATED BIOMARKER RESULTS (SUMMARY), WELL NOR:30/8-1S

Depth (m)	Lithology	Type	Name	Method Description	Data Type	Result Quality	Analysing Company
2540.00	LST/CLYST	DC	1-4 MM	SIM on SAT fraction	height	OK	NORSK HYDRO
2850.00	ADD	MUD	KCL/PMPA	SIM on SAT fraction	height	OK	NORSK HYDRO
3360.00	LST	DC	1-2 MM	SIM on SAT fraction	height	OK	NORSK HYDRO
3370.00	CLYST/LST	DC	1-2 MM	SIM on SAT fraction	height	OK	NORSK HYDRO
3387.00	SLST/CLYST/	DC	1-4 MM	SIM on SAT fraction	height	OK	NORSK HYDRO
3405.00	SLST/CLYST/	DC	1-4 MM	SIM on SAT fraction	height	OK	NORSK HYDRO
3427.00	SLST/CLYST/	DC	1-4 MM	SIM on SAT fraction	height	OK	NORSK HYDRO
3440.00	CLYST/SLST	DC	1-4 MM	SIM on SAT fraction	height	OK	NORSK HYDRO
3457.50	SLST	COCH	1	SIM on SAT fraction	height	OK	NORSK HYDRO
3490.00	CLYST/SLST	DC	1-4 MM	SIM on SAT fraction	height	OK	NORSK HYDRO
3510.00	SLST/CLYST	DC	1-4 MM	SIM on SAT fraction	height	OK	NORSK HYDRO
3563.20	SST	COCH	3	SIM on SAT fraction	height	OK	NORSK HYDRO
3576.30	SST	COCH		SIM on SAT fraction	height	OK	NORSK HYDRO
3586.50	SST	COCH	3	SIM on SAT fraction	height	OK	NORSK HYDRO
3596.50	SST	COCH	3	SIM on SAT fraction	height	OK	NORSK HYDRO
3606.60	SST	COCH	3	SIM on SAT fraction	height	OK	NORSK HYDRO
3616.90	SST	COCH	3	SIM on SAT fraction	height	OK	NORSK HYDRO
3633.50	SST	COCH		SIM on SAT fraction	height	OK	NORSK HYDRO
3643.50	SST	COCH	3	SIM on SAT fraction	height	OK	NORSK HYDRO
3651.60	SST	COCH		SIM on SAT fraction	height	OK	NORSK HYDRO
3669.30	SST	COCH	3	SIM on SAT fraction	height	OK	NORSK HYDRO
3682.40	SST	COCH		SIM on SAT fraction	height	OK	NORSK HYDRO
3696.20	SST	COCH		SIM on SAT fraction	height	OK	NORSK HYDRO
3724.30	SST	COCH		SIM on SAT fraction	height	OK	NORSK HYDRO
3740.60	SST	COCH		SIM on SAT fraction	height	OK	NORSK HYDRO
3741.70	SST	COCH		SIM on SAT fraction	height	OK	NORSK HYDRO
3780.00	COAL	DC	1-2MM	SIM on SAT fraction	height	OK	NORSK HYDRO
3885.00	SST	DC	1-2MM	SIM on SAT fraction	height	OK	NORSK HYDRO
3887.00	SST/COAL/LS	DC	1-2MM	SIM on SAT fraction	height	OK	NORSK HYDRO
4000.00	COAL/CLYST/	DC	1-2MM	SIM on SAT fraction	height	OK	NORSK HYDRO
4080.00	COAL/CLYST	DC	1-4MM	SIM on SAT fraction	height	OK	NORSK HYDRO
4350.00		MUD	1	SIM on SAT fraction	height	OK	NORSK HYDRO



TABLE: 4.6

SATURATED BIOMARKER RESULTS (STERANES), WELL NOR:30/8-1S

Depth (m)	Lithology	Type	%29 $\alpha$ S	%29 $\beta$	%Preg	%27ste	%28ste	%29ste	%30ste	Ho/St1	Ho/St2
2540.00	LST/CLYST	DC	47	70	15	36	24	30	10		3
2850.00	ADD	MUD	35	60	9	33	25	35	7		4
3360.00	LST	DC	48	74	10	33	23	33	11		3
3370.00	CLYST/LST	DC	49	68	10	33	23	34	10		4
3387.00	SLST/CLYST/	DC	48	67	10	31	23	36	10		5
3405.00	SLST/CLYST/	DC	46	60	10	34	20	38	8		7
3427.00	SLST/CLYST/	DC	50	60	12	35	19	39	7		10
3440.00	CLYST/SLST	DC	50	60	12	35	19	37	8		9
3457.50	SLST	COCH	49	70	10	32	24	34	10		3
3490.00	CLYST/SLST	DC	49	62	10	32	21	39	8		8
3510.00	SLST/CLYST	DC	55	58	11	44	17	33	6		11
3563.20	SST	COCH	51	72	14	32	25	33	10		2
3576.30	SST	COCH	50	70	14	32	25	33	11		2
3586.50	SST	COCH	53	71	13	32	25	33	10		1
3596.50	SST	COCH	50	72	13	32	24	34	10		1
3606.60	SST	COCH	51	71	14	31	26	33	10		1
3616.90	SST	COCH	51	71	13	31	25	34	10		1
3633.50	SST	COCH	52	72	14	32	24	33	11		1
3643.50	SST	COCH	52	70	13	31	25	34	10		4
3651.60	SST	COCH	49	72	13	32	24	34	10		2
3669.30	SST	COCH	50	71	13	32	25	33	10		1
3682.40	SST	COCH	50	72	13	32	24	33	10		1
3696.20	SST	COCH	54	73	12	30	22	36	12		3
3724.30	SST	COCH	49	74	13	31	26	32	11		2
3740.60	SST	COCH	53	72	17	29	25	34	11		3
3741.70	SST	COCH	51	70	21	29	27	33	10		4
3780.00	COAL	DC	51	63	19	27	25	41	7		8
3885.00	SST	DC	50	67	12	30	22	39	8		4
3887.00	SST/COAL/LS	DC	52	66	13	29	25	38	8		4
4000.00	COAL/CLYST/	DC	50	64	16	15	22	59	4		8
4080.00	COAL/CLYST	DC	88	74	8	15	24	59	2		6
4350.00		MUD	46	66	10	34	25	35	7		5



TABLE: 4.7

SATURATED BIOMARKER RESULTS (TERPANE RATIOS), WELL NOR:30/8-1S

Depth (m)	Type	%20/3	%23/3	%24/4	%27Ts	%28αβ	%29Ts	%25nor	%29αβ	%30βα	%30D	%30G	%32αβS	%35αβ
2540.00	DC	12	41	37	73	17	34	1	29	7	15	6	59	44
2850.00	MUD	5	49	35	41	21	22	9	45	13	5	7	58	46
3360.00	DC	11	41	34	69	13	29	0	32	8	9	7	60	44
3370.00	DC	11	46	43	55	7	28	0	32	11	8	6	60	41
3387.00	DC	14	45	47	51	7	25	0	32	12	8	7	60	37
3405.00	DC	13	53	57	48	1	31	1	32	12	6	7	60	33
3427.00	DC	19	51	72	50	1	31	0	33	12	7	8	61	29
3440.00	DC	19	52	70	52	1	32	0	33	13	8	8	60	29
3457.50	COCH	12	41	45	56	12	29	0	32	11	7	5	62	39
3490.00	DC	18	50	66	42	2	26	0	35	14	7	6	58	30
3510.00	DC	27	56	82	40	2	26	0	38	13	9	8	60	26
3563.20	COCH	15	44	33	71	14	35	1	31	8	21	8	60	38
3576.30	COCH	14	43	34	70	13	36	1	31	8	21	8	62	39
3586.50	COCH	14	42	35	71	14	35	1	30	8	19	7	60	38
3596.50	COCH	14	42	34	71	14	34	1	32	8	20	7	62	37
3606.60	COCH	14	42	36	71	13	33	1	31	7	21	7	63	39
3616.90	COCH	15	43	35	73	14	35	1	31	8	20	7	63	37
3633.50	COCH	14	44	35	70	13	34	1	32	8	20	7	58	39
3643.50	COCH	17	43	54	58	7	29	0	31	9	9	5	63	37
3651.60	COCH	14	42	37	66	13	34	1	30	7	17	6	60	41
3669.30	COCH	13	40	35	65	14	33	1	30	8	16	6	60	40
3682.40	COCH	15	40	33	66	14	33	1	31	8	17	6	60	39
3696.20	COCH	15	39	44	70	6	33	0	28	9	13	6	61	39
3724.30	COCH	13	40	36	69	12	30	0	30	9	12	6	60	42
3740.60	COCH	14	38	37	63	6	22	1	27	10	10	4	58	38
3741.70	COCH	16	39	43	61	6	22	1	28	9	9	4	61	37
3780.00	DC	24	46	70	40	3	21	0	30	10	11	4	59	27
3885.00	DC	21	45	61	51	4	27	2	33	9	16	7	62	31
3887.00	DC	22	44	60	55	6	26	1	33	9	17	7	59	31
4000.00	DC	48	52	87	39	2	20	1	32	7	19	6	58	24
4080.00	DC	71	46	92	53	2	32	2	32	7	30	9	60	24
4350.00	MUD	18	50	34	51	8	21	1	48	8	8	9	60	46

TABLE: 4.8



## SATURATED BIOMARKER RESULTS (TERPANE DISTRIBUTION), WELL NOR:30/8-1S

Depth (m)	Lithology	Type	%Tri	%27h	%28h	%29h	%30h	%31h	%32h	%33h	%34h	%35h	Analysing Company
2540.00	LST/CLYST	DC	10	10	5	11	26	19	12	8	5	4	NORSK HYDRO
2850.00	ADD	MUD	11	11	5	18	22	19	10	7	4	3	NORSK HYDRO
3360.00	LST	DC	7	7	4	12	26	20	12	9	5	4	NORSK HYDRO
3370.00	CLYST/LST	DC	6	7	2	13	29	19	12	9	6	4	NORSK HYDRO
3387.00	SLST/CLYST/	DC	5	7	2	13	28	21	12	9	6	3	NORSK HYDRO
3405.00	SLST/CLYST/	DC	4	8	0	14	30	22	12	8	4	2	NORSK HYDRO
3427.00	SLST/CLYST/	DC	3	7	0	15	31	22	12	7	4	2	NORSK HYDRO
3440.00	CLYST/SLST	DC	3	8	0	14	30	22	11	8	4	2	NORSK HYDRO
3457.50	SLST	COCH	5	7	3	13	27	19	13	9	5	3	NORSK HYDRO
3490.00	CLYST/SLST	DC	3	7	0	15	29	22	12	7	5	2	NORSK HYDRO
3510.00	SLST/CLYST	DC	2	8	0	16	29	21	13	7	4	1	NORSK HYDRO
3563.20	SST	COCH	15	13	4	12	26	18	12	8	5	3	NORSK HYDRO
3576.30	SST	COCH	14	12	4	12	27	18	12	8	5	3	NORSK HYDRO
3586.50	SST	COCH	15	12	4	12	27	18	12	8	4	3	NORSK HYDRO
3596.50	SST	COCH	15	12	4	13	27	18	12	8	4	3	NORSK HYDRO
3606.60	SST	COCH	15	12	4	12	26	19	12	8	4	3	NORSK HYDRO
3616.90	SST	COCH	15	12	4	12	27	18	12	8	4	3	NORSK HYDRO
3633.50	SST	COCH	14	13	4	13	27	17	11	8	4	3	NORSK HYDRO
3643.50	SST	COCH	5	8	2	13	29	19	12	8	5	3	NORSK HYDRO
3651.60	SST	COCH	13	11	4	12	29	17	11	8	4	3	NORSK HYDRO
3669.30	SST	COCH	14	12	4	12	28	18	12	8	4	3	NORSK HYDRO
3682.40	SST	COCH	13	11	4	13	28	18	11	8	5	3	NORSK HYDRO
3696.20	SST	COCH	6	8	2	11	29	19	13	10	6	4	NORSK HYDRO
3724.30	SST	COCH	11	10	3	12	28	17	13	8	5	3	NORSK HYDRO
3740.60	SST	COCH	8	10	2	13	35	16	11	7	4	2	NORSK HYDRO
3741.70	SST	COCH	7	12	2	14	37	15	10	6	3	2	NORSK HYDRO
3780.00	COAL	DC	4	12	1	14	35	19	10	5	3	1	NORSK HYDRO
3885.00	SST	DC	6	11	1	14	29	20	12	7	4	2	NORSK HYDRO
3887.00	SST/COAL/LS	DC	7	11	2	14	29	20	12	7	4	2	NORSK HYDRO
4000.00	COAL/CLYST/	DC	4	11	1	14	30	21	13	6	3	1	NORSK HYDRO
4080.00	COAL/CLYST	DC	7	13	1	14	30	20	13	5	3	1	NORSK HYDRO
4350.00		MUD	13	10	2	20	22	20	11	8	4	4	NORSK HYDRO

Table 4.9 Aromatic hydrocarbon concentrations and peak ratios (from GC-MSD)

Depth (m Type MD RKB)	N (ug/ml)	Sum C1-N (ug/ml)	Sum C2-N (ug/ml)	Sum C3-N (ug/ml)	P (ug/ml)	Sum C1-P (ug/ml)	Sum C2-P (ug/ml)	MPI1	F1	F2	DNR	%TAS <sup>1</sup> n	DBT/P	F/P	BPH / 1,6-DMN	2-/1-MN	2-/1-EN	4-/1-MDBT	
2540.00 dc	61.7	138.9	550.2	902.3	37.3	149.5	0.0	0.70	0.40	0.19	2.32	62.99	0.02	0.60	0.38	0.94	1.43	5.69	
3360.00 dc	621.6	2266.3	3198.8	2467.8	312.1	815.3	200.6	0.65	0.42	0.21	2.85	31.50	0.03	0.36	0.55	1.35	1.27	3.22	
3387.00 dc	5745.1	10424.1	9972.3	5764.8	938.2	1598.9	686.0	0.53	0.42	0.21	3.10	22.35	0.03	0.10	0.67	1.36	1.42	2.20	
3405.00 dc	6954.9	10284.9	9298.9	5010.6	1248.0	2013.2	906.2	0.50	0.40	0.21	2.63	18.78	0.03	0.52	0.51	1.17	1.48	1.82	
3427.00 dc	4843.2	9334.6	8338.7	4329.2	1643.3	2353.0	1073.5	0.47	0.40	0.20	2.44	27.90	0.02	0.35	0.39	1.16	1.45	2.16	
3457.50 coch	2708.3	4622.3	8610.5	5972.4	886.6	1679.1	1192.1	0.53	0.40	0.22	2.65	32.65	0.06	0.59	0.30	1.17	1.69	2.75	
3563.20 coch	254.9	2424.5	7047.3	6478.5	572.8	1300.2	1060.3	0.69	0.45	0.24	3.72	58.82	0.04	0.22	0.31	1.35	2.48	5.14	
3586.50 coch	93.4	1731.4	5407.2	5164.7	705.7	1668.9	1163.6	0.73	0.46	0.24	3.66	66.33	0.04	0.71	0.32	1.32	2.47	5.58	
3606.60 coch	131.5	684.9	5421.2	7062.2	603.5	1476.6	1324.0	0.76	0.47	0.26	3.22	63.28	0.04	1.18	0.25	1.11	2.44	5.83	
3633.50 coch	556.6	4164.2	7784.0	6003.7	722.9	1678.4	1224.8	0.71	0.46	0.24	3.80	64.58	0.03	0.82	0.33	1.45	2.40	5.40	
3643.50 coch	4491.5	7159.6	17871.4	12297.7	1670.5	2818.1	1302.7	0.56	0.43	0.25	3.33	58.92	0.05	0.88	0.34	1.31	2.23	3.43	
3669.30 coch	127.9	1612.8	6994.8	6804.8	646.9	1587.0	1664.8	0.73	0.46	0.25	3.52	64.37	0.04	1.10	0.29	1.27	2.44	5.39	
3740.60 coch	201.0	1196.4	6615.5	8105.7	577.8	1763.8	1292.0	0.46	0.31	0.15	2.58	65.38	0.07	0.50	0.19	1.00	1.85	3.81	
3780.00 dc	10161.6	19641.5	26298.5	18332.9	2433.1	4286.0	1506.4	0.62	0.46	0.26	2.45	81.70	0.03	0.33	0.35	1.20	1.76	4.03	
3885.00 dc	5641.5	7783.9	14755.9	9969.0	1841.0	3440.4	2958.3	0.60	0.44	0.26	2.99	54.01	0.05	0.50	0.28	1.18	2.09	4.00	
Drilling mud samples:																			
2850.00 add	472.7	68.0	2731.4	9894.6	368.4	350.9	2279.1	0.42	0.45	0.23	1.47	23.55	0.02	0.41	0.12	0.96	1.48	0.00	
4350.00 add	25.4	46.7	535.9	1256.8	79.0	124.7	317.5	0.56	0.45	0.23	1.95	38.69	0.02	1.16	0.18	0.83	1.88	5.23	

For explanation of variables see Appendix 4





TABLE: 4.10

ISOTOPE ANALYSIS RESULTS (SEDIMENT SAMPLES), WELL NOR:30/8-1S

Depth (m)	Lithology	Type	d13C EXTR	d13C SAT	d13C ARO	d13C POL	d13C ASP	d13C KERO	Analysing Company
2540.00	LST/CLYST	DC		-28.80	-27.62				GEOLABNOR
3360.00	LST	DC		-29.30	-28.52				GEOLABNOR
3370.00	CLYST/LST	DC		-29.04	-27.41				GEOLABNOR
3387.00	SLST/CLYST/	DC		-28.76	-27.10				GEOLABNOR
3405.00	SLST/CLYST/	DC		-28.79	-27.40				GEOLABNOR
3427.00	SLST/CLYST/	DC		-28.26	-26.97				GEOLABNOR
3440.00	CLYST/SLST	DC		-28.49	-27.19				GEOLABNOR
3457.50	SLST	COCH		-29.50	-28.12				GEOLABNOR
3490.00	CLYST/SLST	DC		-28.40	-26.58				GEOLABNOR
3510.00	SLST/CLYST	DC		-27.10	-25.24				GEOLABNOR
3563.20	SST	COCH		-28.57	-27.42				GEOLABNOR
3576.30	SST	COCH		-28.86	-27.60				GEOLABNOR
3586.50	SST	COCH		-28.88	-27.53				GEOLABNOR
3596.50	SST	COCH		-28.84	-27.54				GEOLABNOR
3606.60	SST	COCH		-28.84	-27.60				GEOLABNOR
3616.90	SST	COCH		-28.79	-27.59				GEOLABNOR
3633.50	SST	COCH		-28.83	-27.60				GEOLABNOR
3643.50	SST	COCH		-28.95	-26.44				GEOLABNOR
3651.60	SST	COCH		-28.96	-26.67				GEOLABNOR
3669.30	SST	COCH		-29.08	-27.86				GEOLABNOR
3682.40	SST	COCH		-28.89	-27.72				GEOLABNOR
3696.20	SST	COCH		-29.42	-27.82				GEOLABNOR
3724.30	SST	COCH		-29.45	-28.17				GEOLABNOR
3740.60	SST	COCH		-29.45	-28.12				GEOLABNOR
3741.70	SST	COCH		-29.23	-27.84				GEOLABNOR
3780.00	COAL	DC		-29.06	-25.84				GEOLABNOR
3885.00	SST	DC		-28.70	-26.63				GEOLABNOR
3887.00	SST/COAL/LS	DC		-29.15	-26.67				GEOLABNOR
4000.00	COAL/CLYST/	DC		-27.88	-25.70				GEOLABNOR
4080.00	COAL/CLYST	DC		-27.51	-25.16				GEOLABNOR



TABLE: 4.10

ISOTOPE ANALYSIS RESULTS (DRILLING MUD), WELL NOR:30/8-1S

St.Depth (m)	En.Depth (m)	Name	d13C OIL	d13C SAT	d13C ARO	d13C POL	d13C ASP	Analysing Company
2850.00	2850.00	KCL/PMPA		-28.17	-27.73			GEOLABNOR
4350.00	4350.00	ANCOTHER		-28.69	-27.70			GEOLABNOR

Table 4.11 Visual kerogen composition (transmitted light) and fluorescence of amorphous material

Depth (m)	Type	Amorphous			Phytoclasts			Palynomorphs						Tyson Scale
		AM	AP	AW	W	O	C	S	M	A	F	DS	NI	Point Number**
3350-65	Ctgs	70	0	0	15	5	0	Mnr	10	Tr	0	0	0	3
3365-7	Ctgs	0	55	0	10	20	0	Mnr	15	Tr	0	0	0	3
3367-70	Ctgs	35	10	0	10	25	0	Mnr	15	5*	0	0	0	3
3370-2	Ctgs	0	35	10	10	25	0	Tr	20	0	0	0	0	3
3372-5	Ctgs	35	0	0	10	30	0	Tr	25	0	0	0	0	3
3375-7	Ctgs	65	0	0	10	15	0	Tr	10	0	0	0	0	3
3377-80	Ctgs	40	0	0	10	40	0	Mnr	10	Tr	0	0	0	3
3380-2	Ctgs	65	0	0	10	20	0	Tr	5	Tr	0	0	0	3
3382-5	Ctgs	0	0	60	10	25	0	Mnr	5	0	0	0	0	2
3385-7	Ctgs	0	Mnr	30	5	50	0	Mnr	10	5*	0	0	0	2
3387-90	Ctgs	0	0	20	5	60	0	Mnr	15	0	0	0	0	2
3390-2	Ctgs	0	0	10	Mnr	75	0	Mnr	15	0	0	0	0	2
3380-95	Ctgs	45	0	0	Mnr	40	0	Mnr	15	0	0	0	0	3
3395-7	Ctgs	75	0	0	Tr	10	0	5	5	5	0	0	0	3
3397-3400	Ctgs	0	20	10	5	45	0	5	10	5	0	0	0	2/4
3400-2	Ctgs	0	30	20	5	30	0	5	5	5	0	0	0	2/4
3402-5	Ctgs	55	0	0	5	30	0	5	5	Mnr	0	0	0	3
3405-7	Ctgs	35	0	10	10	30	0	5	5	5	0	0	0	2/3
3407-10	Ctgs	40	0	20	5	25	0	Mnr	10	Mnr	0	0	0	3
3410-12	Ctgs	65	0	0	5	20	0	Mnr	10	0	0	0	0	3
3412-5	Ctgs	40	0	10	10	30	0	Tr	10	0	0	0	0	3-4
3417-20	Ctgs	60	0	0	5	20	0	Mnr	10	5	0	0	0	3
3420-2	Ctgs	65	0	0	Mnr	20	0	Mnr	10	5	0	0	0	3
3425-7	Ctgs	25	0	20	5	40	0	5	5	0	0	0	0	2/3
3427-30	Ctgs	65	0	0	5	15	0	5	10	Mnr	0	0	0	2-3
3432-5	Ctgs	80	0	0	Mnr	10	0	5	5	0	0	0	0	2-3
3435-7	Ctgs	75	0	0	5	10	0	Mnr	10	Tr	0	0	0	2-3
3437-40	Ctgs	65	0	0	5	15	0	5	10	Tr	0	0	0	3-4
3440-2	Ctgs	65	0	0	5	15	0	5	10	Tr	0	0	0	3-4
3442-5	Ctgs	0	75	0	5	10	0	Mnr	10	0	0	0	0	4
3447-50	Ctgs	75	0	0	5	10	0	5	5	Mnr	0	0	0	3
3450-2	Ctgs	0	65	0	5	15	0	5	10	Mnr	0	0	0	4
3440-55	Ctgs	0	60	0	5	15	0	5	15	Tr	0	0	0	4
3457.5	Core	0	0	45	40	10	0	5	Mnr	Mnr*	0	0	0	2
3460.4	Core	0	0	55	40	5	0	Mnr	0	Mnr*	0	0	0	2
3460-2	Ctgs	40	0	0	20	20	0	10	10	0	0	0	0	3
3462-5	Ctgs	70	0	0	5	15	0	5	5	Mnr	0	0	0	3
3487-90	Ctgs	0	0	25	50	15	0	5	5	0	0	0	0	2
3492-5	Ctgs	60	0	0	20	10	0	5	5	0	0	0	0	3
3502-5	Ctgs	30	0	0	5	40	0	5	20	0	0	0	0	3
3507-10	Ctgs	35	0	0	5	20	0	Mnr	40	Mnr	0	0	0	3

AM Amorphous matter in general

AP Fluorescing amorphous matter with abundant palynomorphs

AW Non-fluorescing amorphous matter with woody association

W Woody matter

O Opaque matter

C Cuticula

S Sporomorphs

M Microplankton

A Algae

F Fungi

DS Other matter

NI Non-identifiable

\* Algae occur in broad sheets

Mnr 2 - 5 %

Tr < 2 %

\*\* Number indicates intensity of fluorescence of amorphous kerogen