

**EXPLORATION DIVISION
RUN NORD**

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Report no.	Copy no.	No. of copies 8
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Title: PL 128 SPECIAL STUDY GEOCHEMICAL CHARACYERIZATION OF THE HEAVY HC IN THE CORED RESERVOIR INTERVAL IN WELL 6608/10-3
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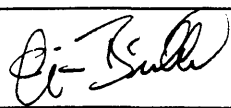

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Key words: Organic geochemistry, reservoir study.	BA-94-323-1
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Abstract: <ul style="list-style-type: none"> - The samples has been analyzed by Statoil's GEOLAB in Stavanger. - Interpretation has been carried out by Statoil in Harstad.
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Prepared by: P. E. Eliassen T. Heide
Text operator: Per Emil Eliassen

Approved by: Date/name	Signature:
01.02.94 Ørjan Birkeland	
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SECTOR FOR GEOTECHNOLOGY

Geochemistry Department

Grading

Title Organic geochemical evaluation of the reservoir interval, well 6608/10-3 - data only report		
Requested by Turid Heide, RUN-NORD	Project	
Date 22/11/93	No. of pages 372	No. of enclosures

Key words organic geochemistry, Norne, well 6608/10-3, reservoir study
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Abstract <p>A total of 110 core and 1 SWC samples from the reservoir interval of well 6608/10-3 have been analysed for variations in the composition of the extractable petroleum. The following techniques were used on all samples: Rock Eval pyrolysis, solvent extraction, asphaltene precipitation, Iatrosan TLC-FID, gas chromatography (GC) (saturated and aromatic hydrocarbons). Twenty eight samples were analysed by gas chromatography-mass spectrometry (GCMS) (saturated and aromatic hydrocarbon fractions) and twenty for carbon isotopic composition (all fractions).</p> <p>All analyses were carried out according to the "Norwegian Industry Guide to Organic Geochemical Analyses" (3rd edition).</p>
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Prepared by Richard Patience Edle Berge Anne Due IFE
Text operator Richard Patience


Approved by 25/11-93 _____ _____	 _____ Trygve Meyer, Dept. Manager _____ _____
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Table 1. 6608/10-3 reservoir study - THA data

Depth (mRKB)	S no.	S type	S1 (mg/g)	S2 (mg/g)	PP (mg/g)	PI
2573.20	S6897	core	0.22	0.39	0.61	0.36
2573.50	S6898	core	0.22	0.46	0.68	0.32
2573.75	S6899	core	0.12	0.20	0.32	0.38
2574.00	S6900	core	0.30	0.70	1.00	0.30
2574.07	S6901	core	0.14	0.19	0.33	0.42
2574.25	S6902	core	0.41	0.54	0.95	0.43
2574.75	S6903	core	0.13	0.16	0.29	0.45
2575.40	S6847	core	0.12	0.03	0.15	0.80
2575.75	S6904	core	0.10	0.09	0.19	0.53
2576.75	S6905	core	0.10	0.17	0.27	0.37
2578.50	S6848	swc	0.35	0.11	0.46	0.76
2604.10	S6906	core	19.10	1.08	20.18	0.95
2604.50	S6907	core	9.79	0.54	10.33	0.95
2604.75	S6908	core	21.50	0.15	21.65	0.99
2606.35	S6909	core	14.10	5.89	19.99	0.71
2607.34	S6910	core	17.90	4.16	22.06	0.81
2608.34	S6911	core	15.30	0.03	15.33	1.00
2609.66	S6912	core	8.20	10.30	18.50	0.44
2610.30	S6913	core	8.57	2.36	10.93	0.78
2611.30	S6914	core	21.80	1.03	22.83	0.95
2612.15	S6915	core	7.30	8.08	15.38	0.47
2613.23	S6916	core	1.40	9.63	11.03	0.13
2617.00	S6917	core	0.62	3.43	4.05	0.15
2617.50	S6918	core	4.38	0.49	4.87	0.90
2618.00	S6919	core	11.90	0.24	12.14	0.98
2621.50	S6920	core	22.80	0.69	23.49	0.97
2627.75	S6921	core	25.50	0.57	26.07	0.98
2630.45	S6854	core	29.30	0.25	29.55	0.99
2632.75	S6922	core	30.40	0.48	30.88	0.98
2640.00	S6923	core	41.60	2.00	43.60	0.95
2646.05	S6924	core	49.60	4.61	54.21	0.91
2646.50	S6925	core	5.32	0.06	5.38	0.99
2647.00	S6926	core	45.00	3.62	48.62	0.93
2649.50	S6927	core	46.10	2.28	48.38	0.95
2650.50	S6928	core	2.94	0.23	3.17	0.93
2651.00	S6929	core	50.90	1.68	52.58	0.97
2652.00	S6930	core	26.40	1.08	27.48	0.96
2653.50	S6855	core	40.60	0.84	41.44	0.98
2654.75	S6931	core	28.00	1.29	29.29	0.96
2655.75	S6932	core	19.50	0.35	19.85	0.98
2656.18	S6933	core	21.30	0.32	21.62	0.99
2656.50	S6934	core	18.20	0.24	18.44	0.99
2657.92	S6935	core	16.20	0.47	16.67	0.97
2659.50	S6936	core	50.90	2.50	53.40	0.95
2662.24	S6937	core	41.40	1.24	42.64	0.97
2664.75	S6938	core	40.10	1.10	41.20	0.97
2665.68	S6939	core	47.70	2.40	50.10	0.95
2667.27	S6940	core	35.20	1.62	36.82	0.96
2669.90	S6941	core	42.30	2.41	44.71	0.95
2672.80	S6942	core	33.80	1.79	35.59	0.95
2675.62	S6943	core	31.70	0.99	32.69	0.97
2677.70	S6856	core	40.40	1.30	41.70	0.97
2679.25	S6944	core	23.70	1.03	24.73	0.96
2681.10	S6945	core	30.40	1.92	32.32	0.94
2684.30	S6946	core	24.90	0.71	25.61	0.97

Table 1. 6608/10-3 reservoir study - THA data

Depth (mRKB)	S no.	S type	S1 (mg/g)	S2 (mg/g)	PP (mg/g)	PI
2686.30	S6947	core	24.20	0.47	24.67	0.98
2691.90	S6948	core	18.30	0.08	18.38	1.00
2693.00	S6949	core	21.00	0.26	21.26	0.99
2693.50	S6950	core	33.60	1.00	34.60	0.97
2694.40	S6951	core	42.40	2.65	45.05	0.94
2695.65	S6952	core	15.90	0.85	16.75	0.95
2697.10	S6953	core	25.80	0.06	25.86	1.00
2698.30	S6857	core	43.80	1.50	45.30	0.97
2700.20	S6954	core	17.90	0.41	18.31	0.98
2701.75	S6955	core	17.60	0.69	18.29	0.96
2703.75	S6956	core	0.21	0.32	0.53	0.40
2704.25	S6957	core	1.95	0.24	2.19	0.89
2705.25	S6958	core	3.72	0.40	4.12	0.90
2707.75	S6959	core	15.30	0.03	15.33	1.00
2708.75	S6960	core	6.82	0.28	7.10	0.96
2709.25	S6961	core	13.00	0.12	13.12	0.99
2710.50	S6962	core	14.70	0.65	15.35	0.96
2711.00	S6963	core	0.52	0.77	1.29	0.40
2711.75	S6964	core	5.14	1.14	6.28	0.82
2712.50	S6965	core	15.90	0.30	16.20	0.98
2713.00	S6966	core	6.15	0.80	6.95	0.88
2713.50	S6967	core	16.80	0.99	17.79	0.94
2714.00	S6968	core	38.20	2.53	40.73	0.94
2714.00	S6858	core	45.40	0.82	46.22	0.98
2714.25	S6969	core	24.10	1.70	25.80	0.93
2714.75	S6970	core	11.60	0.10	11.70	0.99
2715.00	S6971	core	8.84	0.34	9.18	0.96
2715.50	S6972	core	5.04	0.02	5.06	1.00
2715.87	S6973	core	1.64	0.21	1.85	0.89
2716.25	S6974	core	1.02	0.25	1.27	0.80
2716.75	S6975	core	0.08	0.15	0.23	0.35
2717.00	S6976	core	1.01	0.13	1.14	0.89
2717.50	S6977	core	1.00	0.39	1.39	0.72
2718.50	S6978	core	0.55	0.23	0.78	0.71
2719.50	S6979	core	1.19	0.39	1.58	0.75
2720.10	S6980	core	0.36	0.05	0.41	0.88
2721.25	S6981	core	2.54	0.16	2.70	0.94
2723.75	S6982	core	1.99	0.04	2.03	0.98
2724.00	S6983	core	3.57	0.05	3.62	0.99
2725.92	S6984	core	4.02	0.36	4.38	0.92
2726.50	S6985	core	8.92	0.08	9.00	0.99
2727.50	S6986	core	8.66	0.57	9.23	0.94
2727.70	S6859	core	21.80	0.47	22.27	0.98
2728.50	S6987	core	18.70	0.50	19.20	0.97
2730.50	S6988	core	20.30	0.64	20.94	0.97
2731.00	S6989	core	18.80	0.82	19.62	0.96
2731.75	S6990	core	0.40	1.01	1.41	0.28
2738.50	S6991	core	0.12	0.56	0.68	0.18
2742.65	S6992	core	0.01	0.04	0.05	0.20
2743.25	S6993	core	0.01	0.23	0.24	0.04
2744.45	S6994	core	0.01	0.10	0.11	0.09
2751.45	S6995	core	0.04	0.21	0.25	0.16
2755.50	S6996	core	0.01	0.00	0.01	1.00
2758.50	S6997	core	0.01	0.05	0.06	0.17
2760.75	S6998	core	0.01	0.54	0.55	0.02
2761.85	S6999	core	0.01	0.26	0.27	0.04

Table 2. 6608/10-3 reservoir study - sandstone extract yields

Depth (mRKB)	S no.	S type	Rock (g)	EOM (mg)	EOM (ppm)
2573.20	S6897	core	15.41	8.7	565
2573.50	S6898	core	12.32	6.3	511
2573.75	S6899	core	14.59	4.0	274
2574.00	S6900	core	11.93	9.0	754
2574.07	S6901	core	16.05	5.0	312
2574.25	S6902	core	16.31	12.0	736
2574.75	S6903	core	16.75	9.0	537
2575.40	S6847	core	36.64	16.8	459
2575.75	S6904	core	14.96	8.8	588
2576.75	S6905	core	15.99	9.2	575
2578.50	S6848	swc	4.14	9.7	2343
2604.10	S6906	core	5.10	97.6	19137
2604.50	S6907	core	5.76	50.0	8681
2604.75	S6908	core	4.99	98.2	19679
2606.35	S6909	core	5.40	70.6	13074
2607.34	S6910	core	4.51	58.6	12993
2608.34	S6911	core	5.57	83.1	14919
2609.66	S6912	core	9.29	78.5	8450
2610.30	S6913	core	9.39	74.2	7902
2611.30	S6914	core	4.78	101.4	21213
2612.15	S6915	core	10.10	69.3	6861
2613.23	S6916	core	15.04	22.0	1463
2617.00	S6917	core	15.74	14.3	909
2617.50	S6918	core	12.77	91.4	7157
2618.00	S6919	core	5.16	72.0	13953
2621.50	S6920	core	5.61	125.4	22353
2627.75	S6921	core	5.06	132.8	26245
2630.45	S6854	core	27.69	599.3	21643
2632.75	S6922	core	5.35	163.6	30579
2640.00	S6923	core	5.15	187.9	36485
2646.05	S6924	core	4.74	221.1	46646
2646.50	S6925	core	10.13	78.1	7710
2647.00	S6926	core	5.07	217.1	42821
2649.50	S6927	core	4.74	200.5	42300
2650.50	S6928	core	12.59	53.9	4281
2651.00	S6929	core	4.75	235.2	49516
2652.00	S6930	core	6.36	168.0	26415
2653.50	S6855	core	37.08	1078.3	29080
2654.75	S6931	core	5.11	132.0	25832
2655.75	S6932	core	5.17	102.8	19884
2656.18	S6933	core	5.29	112.1	21191
2656.50	S6934	core	5.12	85.7	16738
2657.92	S6935	core	5.17	83.1	16074
2659.50	S6936	core	4.97	242.2	48732
2662.24	S6937	core	5.14	223.0	43385
2664.75	S6938	core	4.93	205.3	41643
2665.68	S6939	core	5.04	195.7	38829
2667.27	S6940	core	5.83	169.3	29039
2669.90	S6941	core	5.15	174.7	33922
2672.80	S6942	core	5.68	170.9	30088
2675.62	S6943	core	5.06	144.8	28617
2677.70	S6856	core	46.64	1422.5	30500
2679.25	S6944	core	6.70	151.7	22642
2681.10	S6945	core	5.34	149.4	27978
2684.30	S6946	core	5.55	123.9	22324

Table 2. 6608/10-3 reservoir study - sandstone extract yields

Depth (mRKB)	S no.	S type	Rock (g)	EOM (mg)	EOM (ppm)
2686.30	S6947	core	5.35	122.8	22953
2691.90	S6948	core	5.59	95.0	16995
2693.00	S6949	core	5.52	120.1	21757
2693.50	S6950	core	5.05	148.2	29347
2694.40	S6951	core	5.20	186.3	35827
2695.65	S6952	core	5.03	82.3	16362
2697.10	S6953	core	5.20	132.4	25462
2698.30	S6857	core	53.78	1261.9	23464
2700.20	S6954	core	5.72	101.7	17780
2701.75	S6955	core	5.78	97.1	16799
2703.75	S6956	core	16.02	5.8	362
2704.25	S6957	core	14.64	42.5	2903
2705.25	S6958	core	10.09	52.8	5233
2707.75	S6959	core	6.10	94.4	15475
2708.75	S6960	core	10.04	87.2	8685
2709.25	S6961	core	5.14	68.0	13230
2710.50	S6962	core	5.03	79.7	15845
2711.00	S6963	core	15.33	18.6	1213
2711.75	S6964	core	10.04	72.8	7251
2712.50	S6965	core	5.01	73.8	14731
2713.00	S6966	core	9.76	71.7	7346
2713.50	S6967	core	5.88	83.9	14269
2714.00	S6968	core	4.75	152.9	32189
2714.00	S6858	core	68.44	2426.2	35450
2714.25	S6969	core	5.44	117.2	21544
2714.75	S6970	core	5.80	69.9	12052
2715.00	S6971	core	9.65	107.6	11150
2715.50	S6972	core	10.92	77.4	7088
2715.87	S6973	core	12.34	33.4	2707
2716.25	S6974	core	12.47	25.7	2061
2716.75	S6975	core	15.45	2.7	175
2717.00	S6976	core	13.62	33.0	2423
2717.50	S6977	core	12.68	25.2	1987
2718.50	S6978	core	15.15	21.6	1426
2719.50	S6979	core	11.95	30.0	2510
2720.10	S6980	core	15.28	12.9	844
2721.25	S6981	core	13.02	52.5	4032
2723.75	S6982	core	14.09	47.8	3392
2724.00	S6983	core	11.64	54.8	4708
2725.92	S6984	core	10.45	66.1	6325
2726.50	S6985	core	8.03	84.7	10548
2727.50	S6986	core	9.33	126.1	13516
2727.70	S6859	core	41.07	548.4	13353
2728.50	S6987	core	5.39	99.1	18386
2730.50	S6988	core	5.75	102.4	17809
2731.00	S6989	core	5.13	90.5	17641
2731.75	S6990	core	13.80	11.5	833
2738.50	S6991	core	15.32	6.8	444
2742.65	S6992	core	15.34	1.7	111
2743.25	S6993	core	15.26	4.6	301
2744.45	S6994	core	13.05	2.5	192
2751.45	S6995	core	15.50	2.3	148
2755.50	S6996	core	15.72	5.5	350
2758.50	S6997	core	15.23	2.5	164
2760.75	S6998	core	15.35	9.6	625
2761.85	S6999	core	15.50	8.2	529

Table 3. 6608/10-3 reservoir study - bulk composition of sandstone extracts

Depth (mRKB)	S no.	S type	SAT %	ARO %	POL %	ASP %
2574.25	S6902	core	43	15	13	30
2575.40	S6847	core	63	11	17	10
2578.50	S6848	swc	41	8	17	34
2604.10	S6906	core	74	16	6	4
2604.50	S6907	core	74	18	6	2
2604.75	S6908	core	75	19	5	2
2606.35	S6909	core	68	17	9	6
2607.34	S6910	core	70	19	7	4
2608.34	S6911	core	73	18	6	3
2609.66	S6912	core	65	19	12	4
2610.30	S6913	core	70	17	9	4
2611.30	S6914	core	75	17	6	2
2612.15	S6915	core	67	17	11	5
2613.23	S6916	core	15	45	20	19
2617.00	S6917	core	4	48	29	19
2617.50	S6918	core	73	16	9	3
2618.00	S6919	core	75	15	6	3
2621.50	S6920	core	76	17	4	3
2627.75	S6921	core	77	16	5	2
2630.45	S6854	core	72	24	3	1
2632.75	S6922	core	76	17	6	1
2640.00	S6923	core	76	19	4	1
2646.05	S6924	core	76	19	4	1
2646.50	S6925	core	74	17	7	2
2647.00	S6926	core	76	20	3	1
2649.50	S6927	core	76	20	3	1
2650.50	S6928	core	75	15	8	2
2651.00	S6929	core	77	19	4	1
2652.00	S6930	core	76	19	4	1
2653.50	S6855	core	69	26	4	1
2654.75	S6931	core	75	20	4	1
2655.75	S6932	core	77	17	5	2
2656.18	S6933	core	77	18	5	1
2656.50	S6934	core	75	19	5	1
2657.92	S6935	core	75	18	5	2
2659.50	S6936	core	75	21	3	1
2662.24	S6937	core	75	21	3	1
2664.75	S6938	core	72	21	6	1
2665.68	S6939	core	74	21	4	2
2667.27	S6940	core	74	21	4	1
2669.90	S6941	core	77	18	4	1
2672.80	S6942	core	76	19	4	1
2675.62	S6943	core	76	19	4	1
2677.70	S6856	core	70	26	3	1
2679.25	S6944	core	78	17	4	1
2681.10	S6945	core	76	19	3	2
2684.30	S6946	core	76	19	4	1
2686.30	S6947	core	75	19	4	2

Table 3. 6608/10-3 reservoir study - bulk composition of sandstone extracts

Depth (mRKB)	S no.	S type	SAT %	ARO %	POL %	ASP %
2691.90	S6948	core	77	17	5	2
2693.00	S6949	core	75	19	4	1
2693.50	S6950	core	77	18	4	1
2694.40	S6951	core	76	18	5	1
2695.65	S6952	core	76	18	4	2
2697.10	S6953	core	77	18	4	1
2698.30	S6857	core	67	23	9	1
2700.20	S6954	core	76	17	5	2
2701.75	S6955	core	75	19	4	2
2704.25	S6957	core	77	16	6	2
2705.25	S6958	core	75	17	6	2
2707.75	S6959	core	74	21	3	2
2708.75	S6960	core	76	16	6	3
2709.25	S6961	core	77	15	6	2
2710.50	S6962	core	73	19	5	3
2711.00	S6963	core	48	23	18	12
2711.75	S6964	core	72	17	8	3
2712.50	S6965	core	77	18	4	2
2713.00	S6966	core	71	18	7	4
2713.50	S6967	core	76	18	5	2
2714.00	S6968	core	75	20	4	1
2714.00	S6858	core	71	25	4	1
2714.25	S6969	core	76	17	5	1
2714.75	S6970	core	76	15	7	2
2715.00	S6971	core	76	15	7	2
2715.50	S6972	core	72	14	6	7
2715.87	S6973	core	71	14	8	6
2716.25	S6974	core	58	13	10	19
2717.00	S6976	core	64	12	9	16
2717.50	S6977	core	59	15	13	13
2718.50	S6978	core	56	14	13	17
2719.50	S6979	core	66	14	9	10
2720.10	S6980	core	65	12	12	12
2721.25	S6981	core	69	16	7	7
2723.75	S6982	core	71	15	8	6
2724.00	S6983	core	74	11	11	3
2725.92	S6984	core	72	16	8	4
2726.50	S6985	core	74	15	6	5
2727.50	S6986	core	73	16	5	6
2727.70	S6859	core	69	26	3	2
2728.50	S6987	core	74	17	5	3
2730.50	S6988	core	78	14	5	3
2731.00	S6989	core	74	16	5	5
2731.75	S6990	core	27	17	20	36

Table 4. 6608/10-3 reservoir study - parameters from GC analysis

Depth (mRKB)	S. type	S. no.	Pr/nC17 (A)	Ph/nC18 (B)	A Pr/Ph B	nC17 nC17+nC27	CPI 1	F 1	F 2	MPI 1	
2574.25	core	S6902	0.66	0.41	1.6	1.7	0.75	1.2	0.49	0.28	0.82
2575.40	core	S6847	0.69	0.38	1.8	1.6	0.74	1.1	0.48	0.27	0.90
2578.50	swc	S6848	0.63	0.38	1.7	1.0	0.50	1.1	0.40	0.25	0.74
2604.10	core	S6906	0.66	0.38	1.7	1.8	0.68	1.2	0.47	0.28	0.77
2604.50	core	S6907	0.66	0.39	1.7	1.6	0.53	1.1	0.50	0.29	0.85
2604.75	core	S6908	0.66	0.38	1.7	1.7	0.63	1.2	0.47	0.27	0.76
2606.35	core	S6909	0.65	0.40	1.6	1.7	0.66	1.2	0.49	0.29	0.79
2607.34	core	S6910	0.63	0.34	1.8	1.8	0.65	1.1	0.49	0.27	0.75
2608.34	core	S6911	0.66	0.37	1.8	1.7	0.65	1.2	0.48	0.28	0.76
2609.66	core	S6912	0.65	0.37	1.8	1.8	0.64	1.1	0.49	0.29	0.78
2610.30	core	S6913	0.64	0.35	1.9	2.0	0.65	1.1	0.49	0.29	0.78
2611.30	core	S6914	0.65	0.36	1.8	1.9	0.68	1.1	0.49	0.27	0.76
2612.15	core	S6915	0.66	0.38	1.8	1.8	0.62	1.2	0.49	0.29	0.82
2613.23	core	S6916	0.58	0.30	1.9	2.0	0.70	1.3	0.46	0.27	0.79
2617.00	core	S6917	1.2	0.34	3.6	3.7	0.47	1.6	0.49	0.30	0.83
2617.50	core	S6918	0.65	0.39	1.7	1.7	0.67	1.2	0.49	0.29	0.81
2618.00	core	S6919	0.65	0.35	1.9	2.0	0.65	1.1	0.50	0.29	0.81
2621.50	core	S6920	0.66	0.41	1.6	1.7	0.63	1.2	0.48	0.26	0.79
2627.75	core	S6921	0.65	0.32	2.0	2.2	0.65	1.1	0.48	0.28	0.79
2630.45	core	S6854	0.65	0.35	1.9	2.0	0.72	1.2	0.44	0.24	0.66
2632.75	core	S6922	0.64	0.35	1.9	1.9	0.64	1.1	0.47	0.28	0.79
2640.00	core	S6923	0.65	0.33	2.0	2.1	0.68	1.1	0.50	0.29	0.84
2646.05	core	S6924	0.65	0.36	1.8	1.8	0.67	1.1	0.48	0.28	0.78
2646.50	core	S6925	0.65	0.35	1.9	1.9	0.64	1.1	0.49	0.28	0.82
2647.00	core	S6926	0.65	0.37	1.8	1.8	0.67	1.1	0.50	0.28	0.82
2649.50	core	S6927	0.63	0.34	1.8	1.9	0.68	1.2	0.48	0.28	0.80
2650.50	core	S6928	0.65	0.37	1.8	1.7	0.63	1.1	0.49	0.29	0.84
2651.00	core	S6929	0.65	0.35	1.8	1.9	0.72	1.1	0.47	0.26	0.81
2652.00	core	S6930	0.65	0.35	1.9	1.9	0.64	1.1	0.49	0.29	0.81
2653.50	core	S6855	0.65	0.35	1.9	1.9	0.73	1.2	0.47	0.25	0.76
2654.75	core	S6931	0.64	0.35	1.9	2.0	0.68	1.1	0.48	0.27	0.80
2655.75	core	S6932	0.65	0.37	1.8	1.8	0.67	1.1	0.49	0.27	0.82
2656.18	core	S6933	0.65	0.40	1.6	1.6	0.58	1.1	0.48	0.27	0.79
2656.50	core	S6934	0.66	0.40	1.7	1.6	0.62	1.1	0.49	0.27	0.84
2657.92	core	S6935	0.65	0.40	1.6	1.6	0.58	1.2	0.50	0.27	0.83
2659.50	core	S6936	0.65	0.35	1.9	2.0	0.69	1.1	0.48	0.28	0.78
2662.24	core	S6937	0.65	0.33	2.0	2.2	0.67	1.1	0.47	0.26	0.77
2664.75	core	S6938	0.64	0.35	1.8	1.9	0.65	1.1	0.49	0.28	0.81
2665.68	core	S6939	0.65	0.38	1.7	1.8	0.67	1.1	0.50	0.28	0.83
2667.27	core	S6940	0.65	0.37	1.8	1.9	0.67	1.1	0.49	0.27	0.83
2669.90	core	S6941	0.65	0.36	1.8	1.9	0.66	1.1	0.49	0.29	0.81
2672.80	core	S6942	0.65	0.32	2.0	2.2	0.68	1.1	0.49	0.30	0.82
2675.62	core	S6943	0.65	0.36	1.8	1.9	0.62	1.1	0.48	0.26	0.78
2677.70	core	S6856	0.65	0.35	1.9	2.0	0.73	1.2	0.47	0.25	0.75
2679.25	core	S6944	0.64	0.35	1.8	2.0	0.64	1.1	0.48	0.28	0.78
2681.10	core	S6945	0.65	0.35	1.8	1.9	0.66	1.1	0.48	0.27	0.78

Table 4. 6608/10-3 reservoir study - parameters from GC analysis

Depth (mRKB)	S. type	S. no.	Pr/nC17 (A)	Ph/nC18 (B)	A Pr/Ph B	nC17 nC17+nC27	CPI 1	F 1	F 2	MPI 1	
2684.30	core	S6946	0.65	0.37	1.8	1.8	0.66	1.1	0.48	0.27	0.79
2686.30	core	S6947	0.64	0.35	1.8	2.0	0.64	1.1	0.49	0.28	0.79
2691.90	core	S6948	0.65	0.38	1.7	1.7	0.65	1.1	0.45	0.27	0.74
2693.00	core	S6949	0.65	0.38	1.7	1.7	0.68	1.1	0.49	0.28	0.78
2693.50	core	S6950	0.65	0.35	1.8	2.0	0.64	1.1	0.48	0.27	0.79
2694.40	core	S6951	0.65	0.35	1.8	1.9	0.73	1.1	0.49	0.28	0.79
2695.65	core	S6952	0.65	0.36	1.8	1.9	0.64	1.1	0.49	0.27	0.81
2697.10	core	S6953	0.65	0.36	1.8	1.8	0.65	1.1	0.49	0.28	0.80
2698.30	core	S6857	0.65	0.35	1.9	2.0	0.74	1.2	0.46	0.24	0.77
2700.20	core	S6954	0.65	0.36	1.8	1.9	0.61	1.1	0.50	0.29	0.84
2701.75	core	S6955	0.66	0.40	1.7	1.7	0.64	1.2	0.51	0.30	0.86
2704.25	core	S6957	0.65	0.40	1.6	1.6	0.56	1.1	0.50	0.28	0.85
2705.25	core	S6958	0.74	0.40	1.8	1.8	0.61	1.2	0.48	0.27	0.82
2707.75	core	S6959	0.65	0.37	1.8	1.7	0.64	1.1	0.49	0.27	0.83
2708.75	core	S6960	0.65	0.40	1.6	1.6	0.57	1.2	0.50	0.27	0.85
2709.25	core	S6961	0.74	0.39	1.9	1.9	0.68	1.2	0.50	0.28	0.82
2710.50	core	S6962	0.65	0.39	1.6	1.6	0.61	1.2	0.48	0.27	0.83
2711.00	core	S6963	0.60	0.39	1.5	1.5	0.62	1.1	0.49	0.29	0.82
2711.75	core	S6964	0.70	0.37	1.9	1.9	0.65	1.1	0.48	0.28	0.81
2712.50	core	S6965	0.65	0.38	1.7	1.7	0.50	1.1	0.49	0.26	0.85
2713.00	core	S6966	0.74	0.38	2.0	1.8	0.60	1.1	0.49	0.28	0.86
2713.50	core	S6967	0.75	0.41	1.8	1.9	0.57	1.1	0.50	0.27	0.86
2714.00	core	S6968	0.65	0.38	1.7	1.7	0.62	1.2	0.48	0.27	0.83
2714.00	core	S6858	0.65	0.35	1.9	2.0	0.72	1.1	0.46	0.24	0.77
2714.25	core	S6969	0.65	0.40	1.6	1.6	0.59	1.1	0.49	0.27	0.84
2714.75	core	S6970	0.71	0.37	1.9	2.0	0.65	1.2	0.49	0.27	0.85
2715.00	core	S6971	0.75	0.40	1.9	1.8	0.61	1.2	0.49	0.27	0.83
2715.50	core	S6972	0.75	0.41	1.8	1.8	0.58	1.1	0.49	0.27	0.85
2715.87	core	S6973	0.65	0.38	1.7	1.6	0.63	1.1	0.51	0.28	0.88
2716.25	core	S6974	0.63	0.38	1.7	1.5	0.63	1.1	0.50	0.28	0.92
2717.00	core	S6976	0.64	0.35	1.8	1.6	0.59	1.1	0.50	0.29	0.86
2717.50	core	S6977	0.62	0.42	1.5	1.5	0.64	1.2	0.50	0.28	0.83
2718.50	core	S6978	0.60	0.37	1.6	1.7	0.67	1.1	0.46	0.24	0.58
2719.50	core	S6979	0.65	0.38	1.7	1.5	0.60	1.1	0.51	0.29	0.94
2720.10	core	S6980	0.60	0.39	1.6	1.4	0.59	1.3	0.49	0.26	0.82
2721.25	core	S6981	0.64	0.37	1.7	1.7	0.65	1.1	0.48	0.27	0.83
2723.75	core	S6982	0.64	0.35	1.8	1.7	0.62	1.1	0.50	0.28	0.86
2724.00	core	S6983	0.64	0.35	1.9	1.8	0.59	1.1	0.47	0.24	0.60
2725.92	core	S6984	0.71	0.41	1.7	1.8	0.62	1.2	0.50	0.28	0.84
2726.50	core	S6985	0.64	0.37	1.8	1.6	0.63	1.1	0.51	0.28	0.89
2727.50	core	S6986	0.63	0.38	1.7	1.6	0.63	1.1	0.48	0.26	0.82
2727.70	core	S6859	0.65	0.35	1.9	2.0	0.72	1.1	0.46	0.24	0.77
2728.50	core	S6987	0.64	0.34	1.9	1.9	0.62	1.1	0.49	0.27	0.82
2730.50	core	S6988	0.65	0.40	1.6	1.7	0.61	1.1	0.48	0.26	0.82
2731.00	core	S6989	0.64	0.32	2.0	2.1	0.61	1.1	0.50	0.27	0.84
2731.75	core	S6990	0.59	0.33	1.8	1.5	0.54	1.1	0.49	0.28	0.80

Table 5. 6608/10-3 reservoir study - biomarker parameters from GCMS of saturates fractions

S no.	Depth (mRKB)	20S	bb	22S	Ts/Tm	TtX	30D/H	30ab
S6902	2574.25	0.54	0.55	0.61	0.90	1.00	0.10	0.88
S6847	2575.40	0.51	0.56	0.60	0.95	1.11	0.10	0.89
S6848	2578.50	0.53	0.56	0.60	0.81	1.00	0.10	0.88
S6909	2606.35	0.54	0.56	0.59	0.89	1.22	0.10	0.88
S6912	2609.66	0.54	0.56	0.60	0.89	1.10	0.10	0.88
S6916	2613.23	0.31	0.45	0.42	0.52	0.38	0.07	0.77
S6920	2621.50	0.55	0.57	0.60	0.94	1.22	0.10	0.88
S6854	2630.45	0.52	0.56	0.60	0.90	1.20	0.12	0.87
S6924	2646.05	0.56	0.57	0.60	0.89	1.33	0.11	0.88
S6928	2650.50	0.55	0.57	0.61	0.89	1.22	0.10	0.88
S6855	2653.50	0.57	0.58	0.60	0.83	1.25	0.10	0.89
S6932	2655.75	0.56	0.57	0.61	0.94	1.22	0.10	0.88
S6936	2659.50	0.55	0.57	0.60	0.89	1.10	0.10	0.88
S6940	2667.27	0.56	0.57	0.59	0.84	1.20	0.11	0.88
S6856	2677.70	0.56	0.58	0.60	0.89	1.11	0.10	0.89
S6944	2679.25	0.55	0.57	0.59	0.94	1.22	0.10	0.88
S6949	2693.00	0.57	0.56	0.58	0.89	1.33	0.11	0.88
S6953	2697.10	0.56	0.57	0.61	0.94	1.22	0.10	0.88
S6857	2698.30	0.57	0.59	0.61	0.78	1.00	0.09	0.89
S6959	2707.75	0.56	0.56	0.60	0.84	1.20	0.11	0.88
S6963	2711.00	0.42	0.48	0.53	0.80	0.63	0.09	0.84
S6967	2713.50	0.55	0.57	0.60	0.89	1.10	0.10	0.88
S6858	2714.00	0.56	0.59	0.59	0.83	1.11	0.10	0.88
S6973	2715.87	0.55	0.57	0.60	0.89	1.20	0.11	0.88
S6976	2717.00	0.56	0.57	0.60	0.94	1.22	0.10	0.88
S6985	2726.50	0.56	0.57	0.60	0.89	1.20	0.11	0.88
S6859	2727.70	0.58	0.57	0.61	0.94	1.25	0.10	0.88
S6989	2731.00	0.55	0.57	0.60	0.88	1.22	0.10	0.88

Parameter codes are described and defined in Appendix 4

Table 5. 6608/10-3 reservoir study - biomarker parameters from GCMS of saturates fractions

S no.	Depth (mRKB)	%C27	%C28	%C29	C30/st	Dia/ reg	28ab/H	H/S
S6902	2574.25	30	29	41	0.11	1.51	0.11	6.00
S6847	2575.40	32	30	38	0.10	1.88	0.13	5.48
S6848	2578.50	32	30	38	0.10	1.61	0.13	5.91
S6909	2606.35	30	29	41	0.12	1.70	0.11	5.36
S6912	2609.66	30	29	41	0.12	1.64	0.12	5.37
S6916	2613.23	32	28	40	0.08	1.37	0.06	14.67
S6920	2621.50	30	29	41	0.12	1.73	0.11	5.28
S6854	2630.45	32	31	37	0.12	1.73	0.12	4.82
S6924	2646.05	31	28	41	0.12	1.71	0.11	4.95
S6928	2650.50	30	29	41	0.11	1.72	0.11	5.19
S6855	2653.50	28	30	42	0.12	1.76	0.11	5.82
S6932	2655.75	30	28	41	0.12	1.72	0.11	5.30
S6936	2659.50	31	28	41	0.12	1.78	0.11	5.21
S6940	2667.27	30	29	42	0.12	1.77	0.11	5.26
S6856	2677.70	28	30	42	0.12	1.67	0.12	5.68
S6944	2679.25	30	29	41	0.12	1.77	0.11	5.40
S6949	2693.00	30	29	41	0.12	1.74	0.11	5.14
S6953	2697.10	29	29	41	0.12	1.73	0.11	4.69
S6857	2698.30	30	28	42	0.13	1.62	0.11	5.33
S6959	2707.75	30	29	40	0.12	1.74	0.11	5.12
S6963	2711.00	32	29	39	0.11	1.24	0.14	7.19
S6967	2713.50	30	29	41	0.12	1.73	0.10	5.59
S6858	2714.00	30	29	41	0.13	1.65	0.12	5.18
S6973	2715.87	30	29	41	0.12	1.74	0.11	5.62
S6976	2717.00	30	29	41	0.12	1.76	0.10	5.98
S6985	2726.50	31	29	41	0.12	1.78	0.11	5.94
S6859	2727.70	30	29	41	0.12	1.78	0.12	5.05
S6989	2731.00	30	29	41	0.12	1.71	0.10	6.20

Parameter codes are described and defined in Appendix 4

Table 5. 6608/10-3 reservoir study - biomarker parameters from GCMS of saturates fractions

S no.	Depth (mRKB)	ppmH	ppmS	3R/H	4R/H	35/34H	29/30H	Dem/H	O/H	G/H
S6902	2574.25	1093	182	0.09	0.10	0.75	0.50	0.10	0.00	0.02
S6847	2575.40	651	119	0.08	0.07	0.75	0.53	0.14	0.00	0.02
S6848	2578.50	857	145	0.14	0.10	0.84	0.54	0.11	0.00	0.00
S6909	2606.35	1511	282	0.08	0.08	0.81	0.46	0.09	0.00	
S6912	2609.66	1416	264	0.08	0.09	0.77	0.50	0.10	0.00	0.02
S6916	2613.23	1150	78	0.07	0.11	0.53	0.51	0.06	0.00	
S6920	2621.50	1578	299	0.08	0.08	0.74	0.48	0.08	0.00	0.02
S6854	2630.45	1896	394	0.09	0.08	0.74	0.51	0.09	0.00	0.03
S6924	2646.05	1674	338	0.08	0.08	0.72	0.48	0.08	0.00	0.01
S6928	2650.50	1645	317	0.08	0.08	0.68	0.48	0.08	0.00	0.02
S6855	2653.50	2096	360	0.07	0.07	0.75	0.49	0.09	0.00	0.02
S6932	2655.75	1666	314	0.08	0.08	0.77	0.46	0.08	0.00	0.02
S6936	2659.50	1687	324	0.08	0.08	0.72	0.48	0.09	0.00	0.02
S6940	2667.27	1689	321	0.08	0.08	0.79	0.48	0.09	0.00	
S6856	2677.70	2090	368	0.07	0.07	0.71	0.51	0.09	0.00	0.00
S6944	2679.25	1706	316	0.08	0.08	0.74	0.47	0.08	0.00	0.01
S6949	2693.00	1823	355	0.08	0.08	0.72	0.48	0.08	0.00	
S6953	2697.10	1544	329	0.08	0.08	0.72	0.48	0.08	0.00	0.01
S6857	2698.30	2078	390	0.05	0.06	0.71	0.51	0.08	0.00	0.03
S6959	2707.75	1748	341	0.08	0.08	0.78	0.49	0.09	0.00	0.01
S6963	2711.00	1368	190	0.07	0.07	0.73	0.50	0.09	0.00	
S6967	2713.50	1802	322	0.08	0.08	0.77	0.48	0.08	0.00	0.01
S6858	2714.00	1850	357	0.07	0.06	0.65	0.49	0.09	0.00	0.02
S6973	2715.87	1726	307	0.08	0.08	0.81	0.49	0.08	0.00	
S6976	2717.00	1554	260	0.07	0.08	0.81	0.49	0.09	0.00	0.02
S6985	2726.50	1742	293	0.08	0.08	0.72	0.49	0.09	0.00	0.01
S6859	2727.70	1913	379	0.08	0.07	0.83	0.52	0.09	0.00	0.02
S6989	2731.00	1869	301	0.08	0.08	0.74	0.47	0.08	0.00	0.02

Parameter codes are described and defined in Appendix 4

Table 6. 6608/10-3 reservoir study - aromatic steroid parameters from GCMS

Depth (mRKB)	S no.	Parameters			
		Arom1	Arom2	Crack1	Crack2
2574.25	S6902	0.82	0.71	0.58	0.35
2575.40	S6847	0.81	0.60	0.53	0.30
2578.50	S6848	0.69	0.54	0.47	0.26
2606.35	S6909	0.76	0.61	0.51	0.30
2609.66	S6912	0.74	0.58	0.46	0.27
2613.23	S6916	0.84	0.71	0.67	0.42
2621.50	S6920	0.79	0.60	0.42	0.24
2630.45	S6854	0.84	0.67	0.44	0.26
2646.05	S6924	0.76	0.61	0.40	0.23
2650.50	S6928	0.78	0.63	0.41	0.24
2653.50	S6855	0.86	0.67	0.46	0.25
2655.75	S6932	0.75	0.59	0.35	0.20
2659.50	S6936	0.79	0.62	0.44	0.24
2667.27	S6940	0.79	0.62	0.42	0.23
2677.70	S6856	0.85	0.67	0.44	0.25
2679.25	S6944	0.73	0.60	0.37	0.21
2693.00	S6949	0.75	0.56	0.36	0.20
2697.10	S6953	0.78	0.62	0.42	0.22
2698.30	S6857	0.85	0.68	0.45	0.25
2707.75	S6959	0.80	0.62	0.42	0.23
2711.00	S6963	0.80	0.72	0.60	0.36
2713.50	S6967	0.79	0.61	0.41	0.22
2714.00	S6858	0.87	0.69	0.43	0.24
2715.87	S6973	0.77	0.59	0.39	0.22
2717.00	S6976	0.76	0.60	0.41	0.24
2726.50	S6985	0.80	0.61	0.40	0.22
2727.70	S6859	0.85	0.68	0.43	0.25
2731.00	S6989	0.80	0.62	0.41	0.22

Parameter codes are described and defined in Appendix 5

Appendix 4

Mass fragmentograms from GCMS analysis of saturated hydrocarbon fractions

(NB note that chromatograms for S6847, S6848, S6854, S6855, S6856, S6857, S6858 and S6859 are included in standard study report)

Derivation of biomarker ratios reported in Table 5

<u>Ratio</u>	<u>Derivation</u>	<u>m/z</u>
Triterpanes		
22S	$32\alpha\beta S / (32\alpha\beta S + 32\alpha\beta R)$	191
Ts/Tm	$27Ts / 27Tm$	191
TiX	$30D / 29\beta\alpha$	191
30D/H	$30D / 30\alpha\beta$	191
29/30H	$29\alpha\beta / 30\alpha\beta$	191
30 $\alpha\beta$	$30\alpha\beta / (30\alpha\beta + 30\beta\alpha)$	191
28 $\alpha\beta$ /H	$28\alpha\beta / 30\alpha\beta$	191
3R/H	$(23/3) / 30\alpha\beta$	191
4R/H	$(24/4) / 30\alpha\beta$	191
35/34H	$(35\alpha\beta R + 35\alpha\beta S) / (34\alpha\beta R + 34\alpha\beta S)$	191
Dem/H	$25nor30\alpha\beta / 30\alpha\beta$	191
O/H	$30O / 30\alpha\beta$	191
G/H	$30G / 30\alpha\beta$	191
ppmH ⁺	$ppm \frac{27Ts + 27Tm + 29\alpha\beta + 29\beta\alpha + 30\alpha\beta + 30\beta\alpha + 31\alpha\beta S + 31\alpha\beta R + 32\alpha\beta S + 32\alpha\beta R + 33\alpha\beta S + 33\alpha\beta R + 34\alpha\beta S + 34\alpha\beta R + 35\alpha\beta S + 35\alpha\beta R}{}$	191
Steranes		
20S	$29\alpha\alpha S / (29\alpha\alpha R + 29\alpha\alpha S)$	217
$\beta\beta$	$(29\beta\beta R + 29\beta\beta S) / (29\beta\beta R + 29\beta\beta S + 29\alpha\alpha R + 29\alpha\alpha S)$	217
%C27	$100 * (27\beta\beta R + 27\beta\beta S) / (27\beta\beta R + 27\beta\beta S + 28\beta\beta R + 28\beta\beta S + 29\beta\beta R + 29\beta\beta S)$	218
%C28	$100 * (28\beta\beta R + 28\beta\beta S) / (27\beta\beta R + 27\beta\beta S + 28\beta\beta R + 28\beta\beta S + 29\beta\beta R + 29\beta\beta S)$	218
%C29	$100 * (29\beta\beta R + 29\beta\beta S) / (27\beta\beta R + 27\beta\beta S + 28\beta\beta R + 28\beta\beta S + 29\beta\beta R + 29\beta\beta S)$	218
C30/st	$(30\beta\beta R + 30\beta\beta S) / (27\beta\beta R + 27\beta\beta S + 28\beta\beta R + 28\beta\beta S + 29\beta\beta R + 29\beta\beta S)$	218
Dia/reg	$(27d\beta R + 27d\beta S) / (27\alpha\alpha R + 27\alpha\alpha S)$	217
ppmS ⁺	$ppm \frac{27\beta\beta R + 27\beta\beta S + 28\beta\beta R + 28\beta\beta S + 29\beta\beta R + 29\beta\beta S}{}$	218
H/S	$\frac{Intensities(27Ts + 27Tm + 29\alpha\beta + 29\beta\alpha + 30\alpha\beta + 30\beta\alpha + 31\alpha\beta S + 31\alpha\beta R + 32\alpha\beta S + 32\alpha\beta R + 33\alpha\beta S + 33\alpha\beta R + 34\alpha\beta S + 34\alpha\beta R + 35\alpha\beta S + 35\alpha\beta R)}{Intensities(27\beta\beta R + 27\beta\beta S + 28\beta\beta R + 28\beta\beta S + 29\beta\beta R + 29\beta\beta S)}$	

* ppm calculated from comparison with m/z 219 intensity for D2-cholestane

Biomarker codes used in derivation of ratios

<u>Compound name</u>	<u>Old code</u>	<u>NEW CODE</u>
Triterpanes		
C ₂₃ H ₄₂ tricyclic terpane	P	23/3
C ₂₄ H ₄₄ tricyclic terpane	Q	24/3
C ₂₅ H ₄₆ tricyclic terpane ¹	R	25/3
C ₂₄ H ₄₂ tetracyclic terpane	S	24/4
C ₂₆ H ₄₈ tricyclic terpane ²	T	26/3
18 α (H)-22,29,30-trisnorneohopane	27A	27Ts
17 α (H)-22,29,30-trisnorhopane	27B	27Tm
17 α (H), 21 β (H)-25,28,30-trisnorhopane		25nor28 $\alpha\beta$
17 α (H), 21 β (H)-28,30-bisnorhopane	28A	28 $\alpha\beta$
17 α (H), 21 β (H)-25-norhopane		25nor30 $\alpha\beta$
17 α (H), 21 β (H)-30-norhopane	C29A	29 $\alpha\beta$
18 α (H)-30-norneohopane		29Ts
15 α -methyl-17 α (H)-27-norhopane (TiX)	X	30D
17 β (H), 21 α (H)-30-norhopane (normoretane)	C29B	29 $\beta\alpha$
18 α (H)-oleanane		30O
17 α (H), 21 β (H)-hopane	C30A	30 $\alpha\beta$
17 β (H), 21 α (H)-hopane (moretane)	C30B	30 $\beta\alpha$
Gammacerane		
17 α (H), 21 β (H), 22(S)-homohopane	C31S	31 $\alpha\beta$ S
17 α (H), 21 β (H), 22(R)-homohopane	C31R	31 $\alpha\beta$ R
17 α (H), 21 β (H), 22(S)-bishomohopane	C32S	32 $\alpha\beta$ S
17 α (H), 21 β (H), 22(R)-bishomohopane	C32R	32 $\alpha\beta$ R
17 α (H), 21 β (H), 22(S)-trishomohopane	C33S	33 $\alpha\beta$ S
17 α (H), 21 β (H), 22(R)-trishomohopane	C33R	33 $\alpha\beta$ R
17 α (H), 21 β (H), 22(S)-tetrakishomohopane	C34S	34 $\alpha\beta$ S
17 α (H), 21 β (H), 22(R)-tetrakishomohopane	C34R	34 $\alpha\beta$ R
17 α (H), 21 β (H), 22(S)-pentakishomohopane	C35S	35 $\alpha\beta$ S
17 α (H), 21 β (H), 22(R)-pentakishomohopane	C35R	35 $\alpha\beta$ R

1 may be broad peak or doublet 2 may be doublet

Steranes

13 β (H), 17 α (H), 20(S)-cholestane (diasterane)	27a	27d β S
13 β (H), 17 α (H), 20(R)-cholestane (diasterane)	27b	27d β R
13 α (H), 17 β (H), 20(R)-cholestane (diasterane)	27c	27d α R
13 α (H), 17 β (H), 20(S)-cholestane (diasterane)	27d	27d α S
5 α (H), 14 α (H), 17 α (H), 20(S)-cholestane	27e	27 $\alpha\alpha$ S
5 α (H), 14 β (H), 17 β (H), 20(R)-cholestane	27f	27 $\beta\beta$ R
5 α (H), 14 β (H), 17 β (H), 20(S)-cholestane	27g	27 $\beta\beta$ S
5 α (H), 14 α (H), 17 α (H), 20(R)-cholestane	27h	27 $\alpha\alpha$ R
24-methyl-13 β (H), 17 α (H), 20(S)-cholestane (diasterane)	28a	28d β S
24-methyl-13 β (H), 17 α (H), 20(R)-cholestane (diasterane)	28b	28d β R
24-methyl-13 α (H), 17 β (H), 20(R)-cholestane (diasterane)	28c	28d α R
24-methyl-13 α (H), 17 β (H), 20(S)-cholestane (diasterane)	28d	28d α S
24-methyl-5 α (H), 14 α (H), 17 α (H), 20(S)-cholestane	28e	28 $\alpha\alpha$ S
24-methyl-5 α (H), 14 β (H), 17 β (H), 20(R)-cholestane	28f	28 $\beta\beta$ R
24-methyl-5 α (H), 14 β (H), 17 β (H), 20(S)-cholestane	28g	28 $\beta\beta$ S
24-methyl-5 α (H), 14 α (H), 17 α (H), 20(R)-cholestane	28h	28 $\alpha\alpha$ R
24-ethyl-13 β (H), 17 α (H), 20(S)-cholestane (diasterane)	29a	29d β S
24-ethyl-13 β (H), 17 α (H), 20(R)-cholestane (diasterane)	29b	29d β R
24-ethyl-13 α (H), 17 β (H), 20(R)-cholestane (diasterane)	29c	29d α R
24-ethyl-13 α (H), 17 β (H), 20(S)-cholestane (diasterane)	29d	29d α S
24-ethyl-5 α (H), 14 α (H), 17 α (H), 20(S)-cholestane	29e	29 $\alpha\alpha$ S
24-ethyl-5 α (H), 14 β (H), 17 β (H), 20(R)-cholestane	29f	29 $\beta\beta$ R
24-ethyl-5 α (H), 14 β (H), 17 β (H), 20(S)-cholestane	29g	29 $\beta\beta$ S
24-ethyl-5 α (H), 14 α (H), 17 α (H), 20(R)-cholestane	29h	29 $\alpha\alpha$ R
24-propyl-5 α (H), 14 α (H), 17 α (H), 20(S)-cholestane	30e	30 $\alpha\alpha$ S
24-propyl-5 α (H), 14 β (H), 17 β (H), 20(R)-cholestane	30f	30 $\beta\beta$ R
24-propyl-5 α (H), 14 β (H), 17 β (H), 20(S)-cholestane	30g	30 $\beta\beta$ S
24-propyl-5 α (H), 14 α (H), 17 α (H), 20(R)-cholestane	30h	30 $\alpha\alpha$ R
4-methyl-14 α (H), 17 α (H)-cholestanes		M28 $\alpha\alpha$
4,24-dimethyl-14 α (H), 17 α (H)-cholestanes		M29 $\alpha\alpha$
4-methyl-24-ethyl-14 α (H), 17 α (H)-cholestanes		M30 $\alpha\alpha$
4,23,24-trimethyl-14 α (H), 17 α (H)-cholestanes (dinosteranes)		M30D

Prøve nr.	Dybde (m)	Intens.	←-----m/z191-----													-----m/z191----->										
			23/3	24/4	27Ts	27Tm	28ab	nor30	29ab	30d	29ba	30O	30ab	30ba	31abS	31abR	32abS	32abR	33abS	33abR	34abS	34abR	35abS	35abR		
S6902	2574,25	15855616	9	10	18	20	12	10	53	10	10	0	105	14	35	25	25	16	16	11	12	8	9	6		
S6909	2606,35	29696000	8	9	16	18	12	10	49	11	9	0	106	14	37	26	24	17	17	13	13	8	10	7		
S6912	2609,66	22073344	8	9	16	18	13	10	52	11	10	0	105	15	36	27	25	17	18	13	13	9	10	7		
S6916	2613,23	39272448	8	12	17	33	7	7	55	8	21	0	108	33	58	65	18	25	10	11	7	8	4	4		
S6920	2621,50	29736960	8	9	16	17	12	9	51	11	9	0	106	14	38	27	27	18	18	13	14	9	10	7		
S6924	2646,05	35930112	9	8	16	18	12	9	51	12	9	0	106	14	40	28	27	18	19	14	15	10	11	7		
S6928	2650,50	26992640	8	9	16	18	12	9	51	11	9	0	106	14	39	27	28	18	19	14	14	11	10	7		
S6932	2655,75	25657344	8	8	16	17	12	9	49	11	9	0	106	14	38	26	27	17	18	13	13	9	10	7		
S6936	2659,50	34963456	9	8	16	18	12	10	51	11	10	0	106	15	39	28	27	18	19	14	15	10	11	7		
S6940	2667,27	27439104	8	9	16	19	12	10	51	12	10	0	106	14	40	27	27	19	19	14	14	10	11	8		
S6944	2679,25	28696576	8	9	17	18	12	9	50	11	9	0	106	14	37	27	26	18	19	14	14	9	10	7		
S6949	2693,00	31727616	9	9	16	18	12	9	51	12	9	0	106	15	40	28	28	20	19	14	15	10	10	8		
S6953	2697,10	26095616	9	8	15	16	12	9	51	11	9	0	106	14	40	27	28	18	19	14	15	10	11	7		
S6959	2707,75	37453824	9	9	16	19	12	10	52	12	10	0	107	15	39	28	28	19	19	14	14	9	11	7		
S6963	2711,00	63029248	7	8	16	20	15	10	53	10	16	0	107	20	43	36	27	24	17	16	14	12	10	9		
S6967	2713,50	30507008	8	9	16	18	11	9	51	11	10	0	106	14	39	27	28	19	19	14	13	9	10	7		
S6973	2715,87	24424448	9	9	16	18	12	9	52	12	10	0	106	14	40	27	28	19	19	13	12	9	10	7		
S6976	2717,00	15650816	7	8	16	17	11	9	51	11	9	0	105	14	37	27	25	17	18	12	12	9	10	7		
S6985	2726,50	32194560	8	8	16	18	12	10	52	12	10	0	106	15	39	28	28	19	20	13	15	10	10	8		
S6989	2731,00	24571904	8	8	15	17	11	9	50	11	9	0	106	14	39	28	27	18	18	13	14	9	10	7		
Bulgaria		44449792	6	7	19	12	21	0	49	11	10	29	107	16	46	32	37	26	23	18	17	12	18	15		
Bulgaria		32874496	7	7	18	13	20	0	46	11	10	29	107	17	46	34	37	26	24	18	17	12	18	15		

Prøve nr.	Dybde (m)	←----- m/z217 ----->								
		Intens	27DbS	27DbR	27aaS	27aaR	29aaS	29bbR	29bbS	29aaR
S6902	2574,25	2102272	86	60	47	50	61	74	68	53
S6909	2606,35	4528128	87	61	43	44	61	74	72	52
S6912	2609,66	3389440	88	60	46	44	60	72	71	52
S6916	2613,23	3940352	72	51	35	55	38	48	50	84
S6920	2621,50	4829184	84	60	43	40	59	70	71	48
S6924	2646,05	6475776	76	61	42	38	59	72	67	46
S6928	2650,50	4384768	85	58	43	40	59	71	70	49
S6932	2655,75	4063232	83	60	43	40	60	71	69	47
S6936	2659,50	6040576	82	59	41	38	57	69	67	47
S6940	2667,27	4569088	84	59	42	39	61	72	69	47
S6944	2679,25	4539392	84	59	42	39	60	72	70	49
S6949	2693,00	5407744	83	60	43	39	62	73	68	47
S6953	2697,10	4747264	82	60	43	39	60	73	71	48
S6959	2707,75	6788096	81	60	42	39	58	66	67	46
S6963	2711,00	10379264	62	57	44	52	54	59	59	76
S6967	2713,50	5316608	75	58	39	38	56	69	65	46
S6973	2715,87	4119552	84	59	42	40	59	73	71	48
S6976	2717,00	2484224	87	59	42	41	60	71	70	47
S6985	2726,50	5758976	83	61	41	40	60	71	69	47
S6989	2731,00	4200488	83	59	44	39	57	69	67	47
Bulgaria		5593088	49	35	67	95	91	69	67	89
Bulgaria		5145600	48	34	68	95	84	67	67	89

Prøve nr.	Dybde (m)	←-----m/z218----->										m/z219		ppm
		Intens	27bbR	27bbS	28bbR	28bbS	29bbR	29bbS	30bbR	30bbS	Intens	27D2		
S6902	2574,25	2031872	82	69	69	76	102	100	28	26	10698752	108	208	
S6909	2606,35	4420608	78	64	64	76	97	102	29	27	3888128	99	51	
S6912	2609,66	3302400	81	66	65	74	99	102	30	28	3140608	99	51	
S6916	2613,23	2584576	89	69	70	67	97	102	20	18	17199104	108	114	
S6920	2621,50	4622336	80	66	64	73	95	102	30	28	3899392	99	52	
S6924	2646,05	5919744	83	68	65	75	101	102	32	28	4414464	98	50	
S6928	2650,50	4251648	79	67	66	78	98	103	28	28	3121152	97	46	
S6932	2655,75	3824640	81	67	67	73	101	103	30	28	3025920	97	49	
S6936	2659,50	5540864	84	67	63	75	98	102	31	28	4273152	98	50	
S6940	2667,27	4301824	80	66	66	75	101	103	31	28	3558400	98	53	
S6944	2679,25	4322304	81	67	65	75	96	102	30	28	3321856	98	49	
S6949	2693,00	5035008	86	66	67	76	102	102	31	29	3650560	97	50	
S6953	2697,10	4590592	80	63	64	77	99	102	30	29	3416064	97	49	
S6959	2707,75	6124544	82	66	65	77	94	102	31	28	4717568	98	53	
S6963	2711,00	7771136	86	72	65	78	95	100	28	25	25382912	107	134	
S6967	2713,50	4445184	82	66	64	78	100	101	31	28	3350528	97	48	
S6973	2715,87	3556352	81	64	68	75	99	102	30	28	4203520	101	75	
S6976	2717,00	2079232	80	65	65	77	97	102	29	27	2787328	106	76	
S6985	2726,50	4429824	83	69	66	78	99	103	32	29	3607552	98	47	
S6989	2731,00	3179520	82	67	66	75	99	102	30	27	2670592	97	50	
Bulgaria		5624832	81	71	101	97	98	91	17	21				
Bulgaria		3965952	82	69	100	98	97	93	17	21				