

FMT PRESSURE MEASUREMENTS

No.	Depth, m RKB	Hydr. press. before, kPa	Form. press. kPa	Hydr. press. after, kPa	Temp. °C	Seal	Remarks
3A							
1	3496.4	65.952	65.170	65.947	128.4	Y	Poor/supercharge
2	3497.4	65.929	65.124	65.986	128.6	Y	Fair/good
3	3500.0	66.084	65.430	66.078	128.8	Y	Supercharged
4	3501.2	66.109	65.658	66.107	129.1	Y	Supercharged
5	3501.8	66.132	65.600	66.134	129.3	Y	Supercharged
6	3503.0	66.156	65.510	66.162	129.5	Y	Supercharged
7	3505.6	66.224	65.358	66.226	129.8	Y	Poor/supercharged
8	3505.5	66.225	65.371	66.233	129.9	Y	Poor/supercharged
9	3505.7	66.237	65.354	66.241	130.2	Y	Poor
10	3503.1	66.179	65.502	66.199	130.4	Y	Supercharged
11	3501.0	66.145	65.675	65.155	130.6	Y	Supercharged
12	3496.3	66.038	65.126	66.052	130.6	Y	Fair/good
13	3497.3	66.000	65.109	66.102	131.8	Y	Fair/good, SAMPLE
3B							
14	3497.3	65.815	65.015	65.848	136.5	Y	Fair/good, SAMPLE

Table 3.3.1

All pressure and temperature readings are from the HP gauge.

4.10 Drilling Fluid Summary

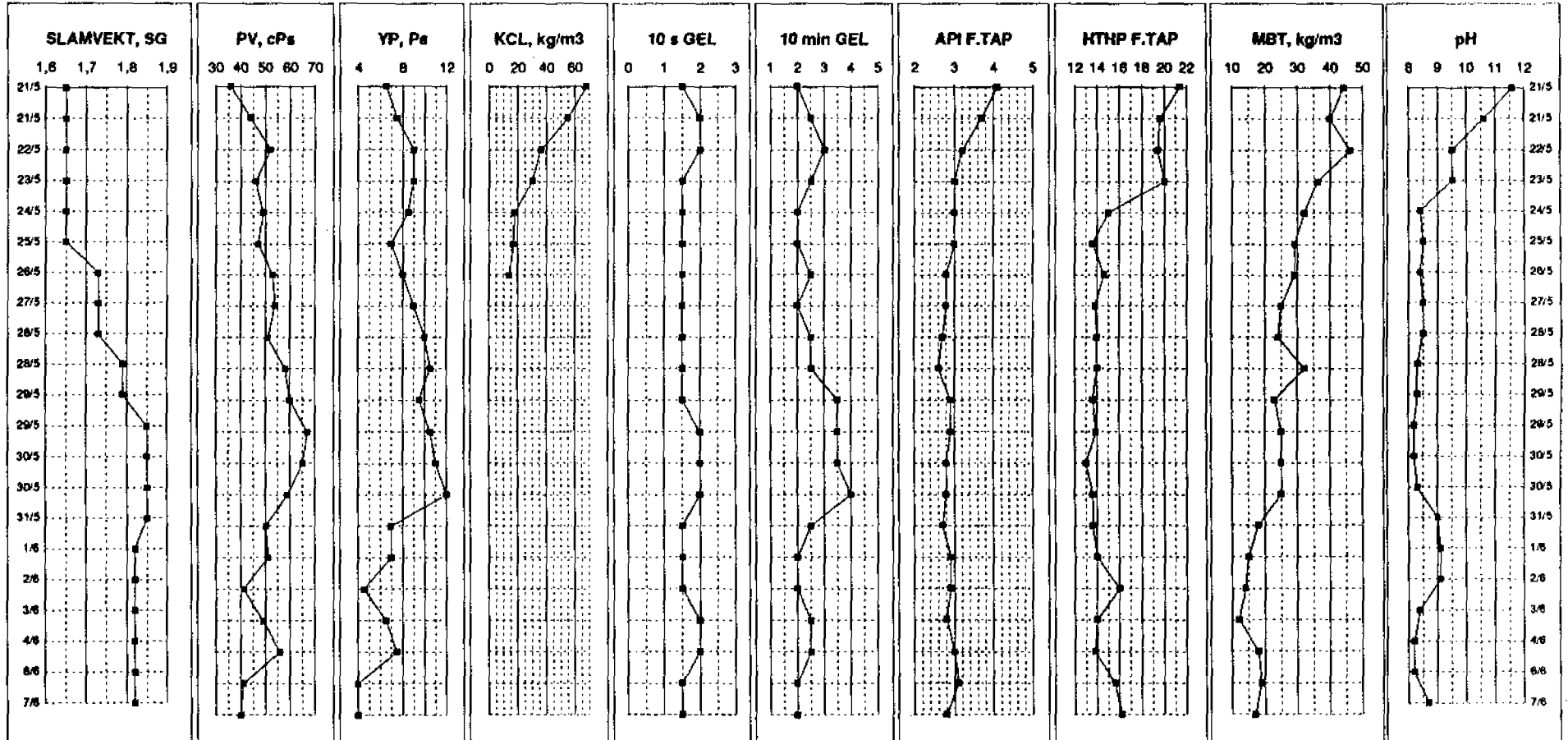
The mud properties throughout well 7/7-3 are listed on the next page.

For further information on drilling fluid, see separate report from Anchor Drilling Fluids (Ref. 1.6 List of additional reports from the well).

Anchor Drilling Fluids		MUD PROPERTIES SUMMARY																												Anchor Drilling Fluids							
WELL NO: 77-3																														AREA: NORTH SEA							
DAY	DATE	DEPTH	HOLE	MW	F.VIB	VG-METER READINGS										AV	PV	YP	GEL	GEL	pH	API	HTHP	Cl-	PI	MI	TOT.	Ca++	SOLIDS	OIL	SAND	Anco	MBT	KCL	HOS	LGS	Bacteria
no.	1993		SIZE	S.G.	s/qt.	800	300	200	100	80	30	8	3	ops	ops	Pa	Pa	Pa	mt	ml	mg/l	ml	ml	mg/l	mg/l	vol%	vol%	vol%	vol%	kg/m3	kg/m3	kg/m3	kg/m3	org./ml			
		mtrs	Inch			rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm		
1	20-apr	166	36	1,20	100+																																
2	21-apr	166	36	1,20	100+																																
3	22-apr	474	9 7/8	1,20	100+																																
4	23-apr	920	9 7/8	1,20	100+																																
5	24-apr	668	26	1,20	70																																
6	25-apr	918	26	1,20	69																																
7	26-apr	918	26	SEAWATER																																	
8	4-mai	918	17 1/2	1,03	100+																																
9	5-mai	918	17 1/2	1,50	95	122	71	51	29	19	12	4	2	61	51	10	2	3	10,2																		
10	8-mai	918	17 1/2	1,50	94	108	82	44	25	15	9	3	2	54	46	8	2	3	10,1	2,8																	
11	7-mai	1260	17 1/2	1,50	130	125	74	51	29	18	11	4	2	62,5	51	11,5	1,5	2,5	8,5	3																	
12	8-mai	1568	17 1/2	1,50	118	123	72	52	30	19	11	3	2	61,5	51	10,5	1,5	2	8,6	2,8																	
13	9-mai	1893	17 1/2	1,60	100	113	66	46	26	17	10	3	2	56,5	47	9,5	1,5	2	8,5	3,1																	
14	10-mai	2180	17 1/2	1,60	114	125	74	51	29	18	11	3	2	62,5	51	11,5	1,5	2	8,3	3,2																	
15	11-mai	2293	17 1/2	1,60	103	120	70	50	29	17	10	3	2	60	50	10	1,5	2	8,4	2,9																	
16	12-mai	2569	17 1/2	1,60	76	107	82	46	26	18	10	3	2	53,5	45	8,5	1,5	2,5	8,2	3,1																	
17	13-mai	2677	17 1/2	1,60	75	106	82	45	26	18	9	4	2	53	44	9	1,5	2,5	8,1	3,5																	
18	14-mai	2677	17 1/2	1,65	82	95	55	40	22	15	9	3	2	47,5	40	7,5	1,5	2	8,3	3,7																	
19	15-mai	2677	17 1/2	1,65	89	88	51	37	21	14	8	3	2	44	37	7	1,5	2	8,5	3,5																	
20	16-mai	2677	17 1/2	1,65	88	92	53	40	22	14	8	3	2	46	39	7	1,5	2	8,3	3,3																	
21	17-mai	2677	17 1/2	1,65	80	90	52	38	23	14	8	3	2	45	38	7	1,5	2	8,4	3,7																	
22	18-mai	2679	12 1/4	1,65	71	94	54	40	24	15	9	3	2	47	40	7	1,5	2	8,3	3,8																	
23	19-mai	2686	12 1/4	1,65	78	88	51	37	21	14	8	3	2	44	37	7	1,5	2,5	8,9	3,6																	
24	20-mai	2676	12 1/4	1,65	80	87	51	39	25	17	11	5	3	43,5	36	7,5	2	4	11,8	4,1																	
25	21-mai	2764	12 1/4	1,65	68	103	59	45	28	14	8	4	3	51,5	44	7,5	2	2,5	10,8	3,7	18,6																
26	22-mai	2819	12 1/4	1,65	73	122	70	52	30	20	10	5	4	61	52	9	2	3	9,5	3,2	19,4																
27	23-mai	2875	12 1/4	1,65	80	110	64	48	28																												
28	24-mai	2926	12 1/4	1,65	71	115	66	49	28																												
29	25-mai	3005	12 1/4	1,65	74	108	61	44	25																												
30	26-mai	3084	12 1/4	1,73	73	122	68	50	30																												
31	27-mai	3116	12 1/4	1,73	82	126	72	52	30																												
32	28-mai	3224	12 1/4	1,79	85	137	79	56	34																												
33	29-mai	3291	12 1/4	1,85	77	155	88	67	39																												
34	30-mai	3354	12 1/4	1,85	80	142	83	63	37																												
35	31-mai	3354	12 1/4	1,85	75	114	84	46	28																												
36	1-jun	3354	12 1/4	1,82	103	116	65	47	25																												
37	2-jun	3354	12 1/4	1,82	70	91	50	36	21																												
38	3-jun	3354	12 1/4	1,82	86	111	62	44	25																												
39	4-jun	3354	12 1/4	1,82	77	127	71	52	29																												
40	5-jun	3354	12 1/4	1,82	84	117	66	47	26																												
41	6-jun	3354	12 1/4	1,82	82	90	49	34	20																												
42	7-jun	3354	12 1/4	1,82	75	88	48	34	20																												
43	8-jun	3354	12 1/4	1,82	87	78	43	30	17																												
44	9-jun	3354	12 1/4	1,82	60	59	33	21	12																												

Anchor Drilling Fluids		MUD PROPERTIES SUMMARY																												Anchor Drilling Fluids					
WELL NO: 77-3																														AREA: NORTH SEA					
DAY	DATE	DEPTH	HOLE	NW	F.VIS	VG-METER READINGS								AV	PV	YP	GEL	GEL	pH	API	HTHP	CL	PI	MF	TOT.	Ca++	SOLIDS	OR	SAND	Anco	MBT	KCL	HGS	LGS	Bacteria
no.	1993	mtrs	SIZE	S.G.	s/qt.	600	300	200	100	60	30	6	3	eps	eps	Pa	Pa	Pa	ml	ml	mg/l	ml	ml	H	mg/l	mg/l	vol%	vol%	vol%	vol %	kg/m3	kg/m3	kg/m3	kg/m3	org./ml
			inch			rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm																						Test
45	10-jun	2276	8 3/8	1.82	71	90	49	34	18					3	2	45	41	4	1.5	2	8.8	2.8	19	6500	0.15	1.1	440	340	27	0	0.5	17	1015	66	10^6
46	11-jun	3339	8 3/8	1.82	80	118	84	44	23					4	3	58	52	6	1.5	4	10.8	3	19	5900	0.4	1.6	600	500	27	0	0.5	16	1015	66	
47	12-jun	3339	8 3/8	1.82	80	118	86	46	26					4	3	59	52	7	1.5	6	11.4	3.2	18	6000	0.35	1.7	560	480	27	0	0.5	15	1018	67	NEGATIVE
48	13-jun	3357	8 3/8	1.82	80	106	80	43	24					4	3	53	46	7	1.5	6	11.4	3.4	18	5600	0.35	1.7	640	580	27	0	0.5	15	1018	67	10^2
49	14-jun	3362	8 3/8	1.87	78	109	82	44	25					4	3	54.5	47	7.5	1.5	5	10.8	3.5	19.2	5400	0.3	1.6	620	560	28	0	0.5	15	1105	38	10^2
50	15-jun	3418	8 3/8	1.92	68	112	84	49	29					5	4	56	48	8	2.5	7	8.9	3.6	14	3300	0.1	1.4	280	200	30	0	0.5	29	1153	63	10^4
51	16-jun	3486	8 3/8	1.92	55	99	57	45	25	19	14	5	4	49.5	42	7.5	2.5	7	8.8	3.4	14	3000	0.1	1.4	320	240	30	0	0.5	31	1153	63			
52	17-jun	3489	8 3/8	1.92	53	87	51	39	24	18	12	5	4	43.5	36	7.5	2	6	8.5	3.5	14	3000	0.1	1.3	320	240	30	0	0.5	31	1153	63			
53	18-jun	3485	8 3/8	1.92	53	80	47	35	21	18	11	5	3	40	33	7	1.5	5	8.3	3.4	14	3000	0.08	1.3	300	200	30	0	0.5	28.5	1154	63			
54	19-jun	3516	8 3/8	1.92	54	71	42	32	20	15	10	5	3	35.5	29	8.5	1.5	4.5	8.3	3.5	14	3000	0.07	1.2	320	240	30	0	0.5	28.5	1154	63			
55	20-jun	3591	8 3/8	1.92	54	79	47	35	24	18	12	7	5	39.5	32	7.5	2.5	6	8.2	3.9	15.8	4000	0	1.2	800	620	30	0	0.4	31	1153	62	10^2		
56	21-jun	3564	8 3/8	1.95	56	75	46	34	23	17	11	7	5	37.5	29	8.5	2.5	8.5	8.7	3.9	16.6	4100	0.3	1.9	360	220	30	0	0.2	31	1153	62	10^2		
57	22-jun	3584	8 3/8	1.95	53	85	52	37	26	20	15	7	5	42.5	33	9.5	3	8	8.7	3.9	16.8	4000	0.3	1.7	480	380	30	0	0.2	31	1153	62	10^2		
58	23-jun	3584	8 3/8	1.95	51	67	42	33	22	18	13	7	5	33.5	25	8.5	2.5	7.5	8.8	3.7	16.2	3900	0.25	1.6	440	320	30	0	0.2	31	1231	13			
59	24-jun	3584	8 3/8	1.95	53	69	42	34	23	21	15	8	6	34.5	27	7.5	3	8.5	8.5	3.9	16.2	5500	0.2	1.9	420	280	30	0	0.2	30	1231	12	10^2		
60	25-jun	3584	8 3/8	1.95	51	58	36	30	20	17	11	7	5	29	22	7	2.5	8	8.4	3.9	2	5500	0.2	1.8	420	280	30	0	0.2	30	1231	12	10^2		
61	26-jun	3584	P&A	1.95	51	58	36	30	20	17	11	7	5	29	22	7	2.5	8	8.3	3.9	16.2	5500	0.2	1.8	420	280	30	0	0.2	30	1231	12			
62	27-jun	3584	P&A	1.95	68	72	41	30	19	13	8	4	3	38	31	5	1.5	10	11	5.1	20	5500	0.9	2.5	840	620	30	0	0.1	30	1231	12			
63	28-jun	3058	P&A	1.82	58	53	31	22	16	11	7	4	3	26.5	22	4.5	1.5	8	10.8	5.2	-	5300	0.5	6.5	780	580	27	0	0.1	39.5	1016	67			
64	29-jun	3058	P&A	1.82	58	52	30	21	16	11	7	3	2	26	22	4	1.5	10	10.9	5.2	-	5200	0.8	2.4	780	580	28	0	0.1	28	974	120			
65	30-jun	870	P&A	1.82	64	69	42	32	20	18	11	6	4	34.5	27	7.5	3	42	-	-	-	4800	0.5	3	1200	980	28	0	TR	29	974	120			
66	1-jul	883	P&A	1.85	50	44	26	18	14	9	6	3	2	22	18	4	1.5	10	10.8	6	-	3700	0.15	2	820	740	23	0	-	29	738	136			
67	2-jul	753	P&A	1.85	50	45	27	18	14	9	6	3	2	22.5	18	4.5	1.5	10	10.9	6	-	3700	0.15	2	820	740	23	0	-	29	738	136			
68	3-jul	See bed	P&A	1.85	50	45	27	18	14	9	6	3	2	22.5	18	4.5	1.5	10	10.9	6	-	3700	0.15	2	820	740	23	0	-	29	-	-			

77-3, 12 1/4" SECTION MUD PROPERTIES





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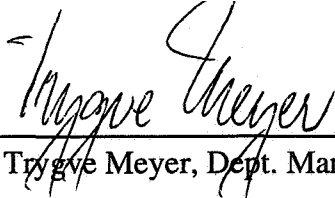
Geochemistry Department

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Title A GEOCHEMICAL EVALUATION OF THE 7/7-3 WELL, NORTH SEA (NORWEGIAN SECTOR)		
Requested by Ragnar Sunnarvik, RUN SØR	Project	
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OLJEDIREKTORATET

Prepared for

STATOIL

**A GEOCHEMICAL EVALUATION OF THE 7/7-3 WELL,
NORTH SEA (NORWEGIAN SECTOR)**

Report Number 93/8546/01/01

October 1993

ANALYTICAL

Thirty (30) ditch cuttings samples from the section between 940 metres and 3457 metres arrived at the Geochem Group's Laboratories on the 24th August 1993. The cuttings samples from the section above 2200 metres and from 2840 - 3250 metres

were taken at 10 metre intervals, whilst those from 2200 - 2840 metres and 3250 - 3400 metres were from 5 metre intervals. Below 3400 metres, the cuttings samples were collected at intervals of 3 metres. In addition, eleven (11) sidewall cores from 2268 - 3488 metres and fifteen (15) core samples from the interval 3492.00 - 3503.53 metres received on the 27th August 1993 were also included in this study. The samples were assigned the Geochem job number 8546.

The analysed samples consisted of two groups - those for source rock evaluation (comprising eleven sidewall cores, three core samples and thirty ditch cuttings samples from the section between 940 metres and 3489.48 metres) and the twelve core samples from 3492.00 - 3503.53 metres for evaluation of the reservoir interval.

The source rock samples were screened with total organic carbon contents. These data were forwarded by facsimile to Dr R Patience, STATOIL, Stavanger who selected samples for pyrolysis and subsequently for more detailed analysis. For the reservoir interval, detailed analyses were selected by Dr Patience on the basis of extract yields (ppm) and the C₁₅₊ chromatographic data.

Sample depths are reported relative to KB. Geochem were advised of the following casing points: 30" at 165.5 metres, 20" at 903.5 metres, 13 3/8" at 2661 metres and 9 5/8" at 3339 metres.

Formation tops (see below), a geological summary, an operational summary and wellsite lithological descriptions were supplied by STATOIL. In addition, a vitrinite reflectance report prepared by the Institute for Energy Technology in Norway (IFE, report number IFE/KR/F-93/150) was made available to the author and the data integrated into this report. The carbon isotope analyses on extracted fractions supplied by Geochem were also performed by IFE.

The following analyses were carried out during this study:

Analysis	Cuttings	Sample Type	
		SWC	Core
Sample preparation, description and picking	30	11	15
Total organic carbon content (TOC duplicates)	30 (6)	11 (2)	3 (1)
Pyrolysis	18	10	2
Pyrolysis-gas chromatography	3	3	2
Spore colour/kerogen description	3	3	2
C ₁₅₊ extraction	3	3	14
Asphaltene precipitation	3	3	14
Iatroscan	3	3	14
Liquid chromatographic separation	3	3	6
GC analysis - saturates fraction	3	3	6
GC analysis - aromatics fraction	3	3	6
GC MS - saturates fraction	3	3	6
GC MS - aromatics fraction	3	3	6

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 8546				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
<u>WELL: 7/7-3</u>				
8546-001	940m	A100% CLAYSTONE - platy to blocky, firm, non-calc, sl silty, micromicaceous, olive grey.	5Y4/1	1.75
8546-002	1010m	A100% CLAYSTONE - as 001A, olive grey.	5Y4/1	1.60
8546-003	1110m	A100% CLAYSTONE - as 001A, olive grey.	5Y4/1	1.54
8546-004	1210m	A100% CLAYSTONE - platy to blocky, firm, non to sl calc, micromicaceous, trace pyrite, medium olive grey.	5Y5/1	1.36
8546-005	1310m	A100% CLAYSTONE - platy to blocky, firm, sl to mod calc, micromicaceous, very dark yellowish brown.	10YR3/2	3.30, 3.27
8546-006	1410m	A100% CLAYSTONE - as 005A, very dark yellowish brown.	10YR3/2	3.79
8546-007	1510m	A100% CLAYSTONE - as 005A, very dark yellowish brown.	10YR3/2	5.23
8546-008	1610m	A100% CLAYSTONE - as 005A, very dark yellowish brown.	10YR3/2	5.14
8546-009	1710m	A100% CLAYSTONE - as 005A, very dark yellowish brown.	10YR3/2	3.28
8546-010	1810m	A 95% CLAYSTONE - platy to blocky, firm, sl calc, silty, micromicaceous, light olive grey. B 5% Limestone.	5Y6/1	1.57, 1.57
8546-011	1910m	A 95% CLAYSTONE - as 010A, light olive grey. B 5% Limestone.	5Y6/1	1.45
8546-012	2010m	A 95% CLAYSTONE - platy to blocky, firm, sl to mod calc, silty micromicaceous, olive grey. B 5% Limestone.	5Y4/1	1.74
8546-013	2110m	A 95% CLAYSTONE - platy to blocky, firm, non-calc, micromicaceous, brownish grey. B 5% Limestone.	5YR4/1	2.76
8546-046	SWC 2268m	A100% CLAYSTONE - sub-fissile, friable to firm, sl calc, dark yellowish brown to brownish grey.	10YR4/2- 5YR4/1	3.08

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1
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JOB 8546				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
8546-014	2410m	A100% CLAYSTONE - fissile, firm, non-calc, micromicaceous, medium grey.	N5	0.91
8546-015	2510m	A 95% CLAYSTONE - as 014A, medium grey. B 5% Dark brown claystone, limestone.	N5	1.36, 1.34
8546-047	SWC 2646m	A100% CLAYSTONE - blocky, soft to firm, calc, sl silty, micromicaceous, brownish black to dusky yellowish brown.	5YR2/1 - 10YR2/2	1.74
8546-016	2720m	A100% CLAYSTONE - fissile to platy, firm, v sl calc, micromicaceous, olive grey.	5Y4/1	1.76
8546-017	2810m	A 90% CLAYSTONE - as 016A, olive grey. B 5% Red claystone. C 5% Limestone.	5Y4/1	0.66
8546-018	2910m	A100% CHALK - blocky, mod soft, minor dark grey streaks, gold F, no C, white.	N9	0.13
8546-019	3020m	A100% CHALK - as 018A, gold F, no C, white.	N9	0.07
8546-020	3110m	A100% CHALK - as 018A, gold F, no C, white.	N9	0.11, 0.11
8546-048	SWC 3254.5m	A 80% MARL - blocky, firm, locally silty, brownish grey. B 20% CALC CLAYSTONE - firm, waxy, greyish red to olive grey.	5YR4/1 10R4/2 - 5Y4/1	0.18, 0.19
8546-021	3360m	A 83% CLAYSTONE - fissile, firm, non to mod calc, micromicaceous, medium dark grey. B 15% SAND - v fine grained, sub-angular, no F, no C, medium dark grey. C 2% Limestone.	N4	0.30
8546-022	3409m	A 95% CLAYSTONE - as 021A, medium dark grey. B 5% Sand, Limestone.	N4	0.26
8546-049	SWC 3413m	A100% CLAYSTONE - sub-fissile, mod hard, sl calc, sl silty, sl micromicaceous, dusky yellowish brown.	10YR2/2	8.86

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

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JOB 8546				
GEOCHEM SAMPLE NUMBER	DEPTH/IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
8546-023	3415m	A 95% CLAYSTONE - as 021A, medium dark grey. B 5% Sand, Limestone.	N4	0.26
8546-024	3421m	A 95% CLAYSTONE - as 021A, medium dark grey. B 5% Sand, Limestone.	N4	0.25
8546-025	3427m	A 70% CLAYSTONE - platy, firm, non to sl calc, micromicaceous, dusky yellowish brown to olive black. B 30% CLAYSTONE - as 021A, medium dark grey.	10YR2/2-5Y2/1 N4	9.22, 9.23 0.35
8546-026	3433m	A 90% CLAYSTONE - as 025A, dusky yellowish brown to olive black. B 5% Med dark grey claystone. C 5% Limestone, dolomite.	10YR2/2-5Y2/1	7.79
8546-027	3439m	A 60% CLAYSTONE - as 025A, dusky yellowish brown to olive black. B 35% CLAYSTONE - as 021A, medium dark grey. C 5% Limestone.	10YR2/2-5Y2/1 N4	5.65 0.31
8546-028	3445m	A 88% CLAYSTONE - fissile, firm, non-calc, medium dark grey. B 10% CLAYSTONE - platy, firm, non to sl calc, micromicaceous, dusky yellowish brown. C 2% Limestone, trace pyrite.	N4 10YR2/2	0.27, 0.27 4.84
8546-029	3451m	A 88% CLAYSTONE - as 028A, medium dark grey. B 10% CLAYSTONE - as 028B, dusky yellowish brown. C 2% Limestone, trace pyrite.	N4 10YR2/2	0.28 5.40
8546-050	SWC 3456.5m	A100% CLAYSTONE - blocky, firm, sl calc, sl silty, micromicaceous, brownish black.	5YR2/1	5.21
8546-030	3457m	A 95% CLAYSTONE - fissile, firm, non-calc, olive grey. B 5% Dusky yellowish brown claystone, limestone, trace pyrite.	5Y4/1	0.26
8546-051	SWC 3459m	A100% CLAYSTONE - sub-fissile, firm to mod hard, calc, sl silty, sl micromicaceous, dusky yellowish brown.	10YR2/2	5.22

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 8546					
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY		GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
8546-052	SWC 3466m	A100%	CLAYSTONE - sub-fissile, firm, calc, silty, micromicaceous, locally dolomitic, dusky yellowish brown.	10YR2/2	2.40
8546-053	SWC 3471m	A100%	CLAYSTONE - firm, sl calc, micromicaceous, silty, olive black.	5Y2/1	1.70, 1.69
8546-054	SWC 3479.5m	A100%	CLAYSTONE - as 053A, olive black.	5Y2/1	2.54
8546-055	SWC 3481.5m	A100%	CLAYSTONE - as 053A, olive black.	5Y2/1	2.77
8546-031	CORE 3486.10m	A100%	CLAYSTONE - sub-fissile, mod hard, non-calc, micromicaceous, brownish black.	5YR2/1	7.07, 7.10
8546-032	CORE 3488.00m	A100%	SILTY CLAYSTONE - blocky, v hard, calc, partly sandy, micromicaceous, glauconitic, olive black.	5Y2/1	0.42
8546-056	SWC 3488m	A100%	CLAYSTONE - firm, sl calc, micromicaceous, silty, olive black.	5Y2/1	3.48
8546-033	CORE 3489.48m	A100%	CLAYSTONE - sub-fissile, hard, non-calc, silty, micromicaceous, brownish black.	5YR2/1	2.73
8546-034	CORE 3492.03m	A100%	SANDSTONE - fine grained, blocky, v hard, sl calc cement, silty, glauconitic, no F, no C, olive black to light olive grey.	5Y2/1 - 5Y6/1	
8546-035	CORE 3493.00m	A100%	SANDSTONE - fine to med grained, blocky, firm to mod hard, sl calc cement, glauconitic, yellow F, rapid streaming cut, pale yellowish brown.	10YR6/2	
8546-036	CORE 3494.00m	A100%	SANDSTONE - as 035A, yellow F, rapid streaming cut, pale yellowish brown.	10YR6/2	
8546-037	CORE 3494.03m	A100%	SANDSTONE - as 035A, yellow F, rapid streaming cut, pale yellowish brown.	10YR6/2	
8546-038	CORE 3494.25m	A100%	SANDSTONE - as 035A, yellow F, rapid streaming cut, pale yellowish brown.	10YR6/2	

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 8546	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
GEOCHEM SAMPLE NUMBER				
8546-039	CORE 3494.48m	A100% SANDSTONE - as 035A, yellow F, rapid streaming cut, pale yellowish brown.	10YR6/2	
8546-040	CORE 3494.53m	A100% SANDSTONE - as 035A, yellow F, rapid streaming cut, pale yellowish brown.	10YR6/2	
8546-041	CORE 3495.60m	A100% SANDSTONE - fine grained, v hard, arg, common carbonaceous laminae, sl glauconitic, no F, no C, brownish grey.	5YR4/1	
8546-042	CORE 3496.73m	A100% SANDSTONE - fine grained, mod hard, v arg, common carbonaceous laminae, sl glauconitic, dull gold F, no C, olive grey.	5Y4/1	
8546-043	CORE 3497.79m	A100% SANDSTONE - as 042A, dull gold F, no C, olive grey to olive black.	5Y4/1 - 5Y2/1	
8546-044	CORE 3500.71m	A100% SANDSTONE - as 042A, no F, no C, olive grey to olive black.	5Y4/1 - 5Y2/1	
8546-045	CORE 3503.53m	A100% SANDSTONE - fine grained, mod hard, v arg, sl carbonaceous, glauconitic, micromicaceous, no F, no C, olive grey.	5Y4/1	

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 2
STANDARD PYROLYSIS DATA

JOB 8546								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	ORGANIC CARBON (%)	S0 (mg/g)	S1 (mg/g)	S2 (mg/g)	PRODN INDEX	HYDGN INDEX	TMAX (°C)

WELL: 7/7-3

8546-003A		1110m	1.54	0.01	2.78	3.95	0.41	256.5	374
8546-004A		1210m	1.36	0.01	2.06	4.23	0.33	311.0	372
8546-005A		1310m	3.29	0.00	2.57	7.23	0.26	219.8	388
8546-006A		1410m	3.79	0.01	2.35	8.84	0.21	233.2	422
8546-007A		1510m	5.23	0.01	2.68	9.39	0.22	179.5	425
8546-008A		1610m	5.14	0.02	3.23	9.91	0.25	192.8	428
8546-009A		1710m	3.28	0.02	2.19	6.65	0.25	202.7	426
8546-010A		1810m	1.57	0.01	2.24	3.34	0.40	212.7	380
8546-011A		1910m	1.45	0.01	2.13	3.11	0.41	214.5	369
8546-012A		2010m	1.74	0.02	2.30	3.34	0.41	192.0	369
8546-013A		2110m	2.76	0.01	3.15	4.56	0.41	165.2	429
8546-046A	SWC	2268m	3.08	0.03	2.82	3.85	0.42	125.0	436
8546-015A		2510m	1.35	0.00	2.16	2.88	0.43	213.3	361
8546-047A	SWC	2646m	1.74	0.02	2.53	3.39	0.43	194.8	430
8546-016A		2720m	1.76	0.00	1.60	4.22	0.27	239.8	437
8546-049A	SWC	3413m	8.86	0.09	3.21	36.33	0.08	410.0	446
8546-025A		3427m	9.23	0.03	4.15	27.58	0.13	298.8	438
8546-026A		3433m	7.79	0.01	4.51	22.81	0.17	292.8	439
8546-027A		3439m	5.65	0.01	3.48	19.72	0.15	349.0	445
8546-028B		3445m	4.84	0.02	1.90	12.21	0.13	252.3	447
8546-029B		3451m	5.40	0.02	2.66	18.04	0.13	334.1	447
8546-050A	SWC	3456.5m	5.21	0.05	5.42	16.41	0.25	315.0	444
8546-051A	SWC	3459m	5.22	0.03	5.91	20.28	0.23	388.5	443
8546-052A	SWC	3466m	2.40	0.02	3.75	3.86	0.49	160.8	439
8546-053A	SWC	3471m	1.70	0.01	0.91	2.91	0.24	171.2	445
8546-054A	SWC	3479.5m	2.54	0.02	1.49	4.27	0.26	168.1	446
8546-055A	SWC	3481.5m	2.77	0.02	1.90	4.58	0.29	165.3	443
8546-031A	CORE	3486.10m	7.09	0.23	5.10	28.42	0.15	400.8	435
8546-056A	SWC	3488m	3.48	0.01	1.70	9.01	0.16	258.9	447
8546-033A	CORE	3489.48m	2.73	0.02	2.87	6.88	0.29	252.0	440

PRODUCTION INDEX = S1 / (S0 + S1 + S2)

HYDROGEN INDEX = 100 x S2 / TOC

S0 : 100°C (180secs)

S1 : 300°C (180secs)

S2 : 25°C / 10min + 1 min 550°C

TABLE 3.1
PYROLYSIS-GC GAS-OIL INDICES

JOB 8546 GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	%	%	%	%	%	INDICES		
							C1	C2-C5	C6-C14

WELL: 7/7-3

8546-049A	SWC	3413m	9.11	32.62	49.01	9.26	0.64	0.79	0.06	41.73
8546-025A		3427m	7.46	30.64	52.91	9.00	0.62	0.71	0.08	38.10
8546-027A		3439m	6.42	32.03	53.07	8.48	0.64	0.72	0.08	38.45
8546-029B		3451m	6.85	30.54	51.31	11.30	0.89	0.79	0.04	37.39
8546-053A	SWC	3471m	5.61	33.12	53.78	7.48	0.56	1.00	0.07	38.73
8546-031A	CORE	3486.10m	7.91	31.88	51.21	9.01	0.61	1.12	0.06	39.79
8546-056A	SWC	3488m	6.90	32.20	52.15	8.75	0.67	0.92	0.05	39.10
8546-033A	CORE	3489.48m	7.03	34.64	51.37	6.95	0.38	1.22	0.10	41.67

TABLE 3.2
 PYROLYSIS-GC GAS-OIL INDICES

JOB 8546 GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	% C1	% C2-C6	% C7-C14	% C15+	% nC17	INDICES		
							<u>TOLUENE</u> nC8	% PHENOL	% C1-C6

WELL: 7/7-3

8546-049A	SWC	3413m	9.11	42.48	39.16	9.26	0.64	0.79	0.06	51.59
8546-025A		3427m	7.46	39.43	44.12	9.00	0.62	0.71	0.08	46.89
8546-027A		3439m	6.42	41.93	43.17	8.48	0.64	0.72	0.08	48.35
8546-029B		3451m	6.85	40.96	40.89	11.30	0.89	0.79	0.04	47.81
8546-053A	SWC	3471m	5.61	44.16	42.75	7.48	0.56	1.00	0.07	49.77
8546-031A	CORE	3486.10m	7.91	42.23	40.85	9.01	0.61	1.12	0.06	50.14
8546-056A	SWC	3488m	6.90	43.03	41.32	8.75	0.67	0.92	0.05	49.93
8546-033A	CORE	3489.48m	7.03	45.01	41.00	6.95	0.38	1.22	0.10	52.04

TABLE 4
KEROGEN TYPE AND MATURATION

JOB 8546 GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	ORGANIC MATTER DESCRIPTION					THERMAL MATURATION	
		TYPES >35%;10-35%;<10%	REMARKS	RE- WORKED (%)	PARTICLE SIZE	PRESERV- ATION	THERMAL ALTERATION INDEX	1-10 SCALE

WELL: 7/7-3

8546-049A	SWC	3413m	AM;-;AL-CO-WO-HE			F-M	G	2 to 2+(?)	5(?)
8546-025A		3427m	AM*;AL**;CO-WO	*includes incompletely developed material **degraded, includes material passing to amorphous		F-M	G	2 to 2+(?)	5(?)
8546-027A		3439m	AM*;-;AL-CO-WO-HE	*as 8546-025A		F-M	G	2 to 2+(?)	5(?)
8546-029B		3451m	AM*;-;CO-AL-WO-HE	*as 8546-025A		F-M/C	G	2 to 2+(?)	5(?)
8546-053A	SWC	3471m	AL*-CO;-;AM-WO	*degraded, commonly passing to amorphous		F-M	G	2 to 2+(?)	5(?)
8546-031A	CORE	3486.10m	AM*;AL*;CO-WO(-HE)	*includes AL passing to AM		F-M	G	2 to 2+(?)	5(?)
8546-056A	SWC	3488m	AL*;CO;AM-WO-HE	*degraded, commonly passing to amorphous		F-M	G	2 to 2+(?)	5(?)
8546-033A	CORE	3489.48m	AL*;CO-AM;WO-HE	*as 8546-056A		F-M	G	2 to 2+(?)	5(?)

Algal, Amorphous, Herbaceous, Inertinite, Resin, Wood
preservation = Poor, Fair, Good size = Fine, Medium, Coarse

TAI SCALE	1	1+ to 2-	2-	2	2 TO 2+	2+ TO 3-	3	3+	4	5
1-10 SCALE	1	2	3	4	5	6	7	8	9	10

TABLE 5
KEROGEN COMPOSITION

WELL: 7/7-3

GEOCHEM SAMPLE NUMBER	DEPTH	KEROGEN COMPOSITION %				
		AM	AL	HE	WO	CO
8546-049A	SWC 3413m	87*	10*	-	1	2
8546-025A	3427m	90*	5	1	1	3
8546-027A	3439m	76*	9	1	5	9
8546-029B	3451m	90	5	1	1	3
8546-053A	SWC 3471m	9	42*	-	9	40
8546-031A	CORE 3486.10m	70*	25*	(1)	1	3
8546-056A	SWC 3488m	9	55*	1	5	30
8546-033A	CORE 3489.48m	10	54*	1	9	26

* see remarks, table 4 - kerogen type and maturation

Table 6. Vitrinite reflectance well 7/7-3

Sample code IFE	Sample depth mRKB	Sample type	Sample lithology	Pop. no.	Vitrinite %Rm	reflectance \pm std	Sample N	quality	Pre-paration
ST 1396	930	cut	clst	1	0.24	0.07	13	-----+	HF
ST 1397	1000	cut	clst	1	0.21	0.04	38	-----±	HF
ST 1398	1100	cut	clst	1	0.26	0.06	33	-----	HF
ST 1399	1200	cut	clst	1	0.28	0.06	29	oo---	HF
ST 1400	1300	cut	clst	1	0.28	0.05	50	ooo--	HF
ST 1401	1400	cut	clst	1	0.27	0.04	51	ooo--	HF
ST 1402	1500	cut	clst	1	0.33	0.05	51	ooo--	HF
ST 1403	1600	cut	clst	1	0.32	0.05	53	ooo--	HF
ST 1404	1700	cut	clst	1	0.29	0.05	50	ooo--	HF
ST 1405	1800	cut	clst	1	0.33	0.04	50	ooo--	HF
ST 1406	1900	cut	clst	1	0.33	0.05	49	-oo--	HF
ST 1407	2000	cut	clst	1	0.33	0.03	46	ooo--	HF
ST 1408	2100	cut	clst	1	0.36	0.06	47	oo---	HF
ST 1409	2288	swc	clst	1	0.40	0.03	13	-o---ST	Bulk
ST 1410	2400	cut	clst	2	0.42	0.08	36	o---ST	HF
ST 1411	2500	cut	clst	2	0.48	0.04	2	-----ST	HF
				1	0.32	0.04	48		
ST 1412	2601	swc	clst	1	0.32	0.06	44	-----ST	Bulk
ST 1413	2680	cut	clst	2	0.41	0.04	17	oo---ST	HF
				1	0.29	0.03	18		
ST 1414	2810	cut	clst	2	0.53	0.07	13	oo---ST	HF
				1	0.31	0.05	12		
ST 1415	2900	cut	lst	2	0.68	0.11	19	o---±ST	HF
				1	0.41	0.04	4		
ST 1416	3000	cut	lst	1	0.58	0.01	4	-----±ST	HF
ST 1417	3100	cut	lst	2	0.64	0.05	7	-----±ST	HF
				1	0.39	0.05	10		
ST 1418	3205.5	swc	clst		-				Bulk
ST 1419	3252	swc	clst	1	0.71	0.07	5	-----	Bulk
				2	1.00	0.07	5		
ST 1420	3350	cut	clst	1	1.01	0.11	23	o----	HF
				alt	0.88	0.05	8		
ST 1421	3400	cut	clst	2	1.12	0.09	29	-o+---ST	HF
				1	0.73	0.07	5		
				alt	0.68	0.02	3		
ST 1422	3418	cut	clst	alt	0.92	0.07	7	-+---ST	HF
				1	1.22	0.18	45		
ST 1423	3510.52	core	clst		-				Bulk

Legend to table 6 .

LEGEND

cut : cuttings sample
swc : sidewall core sample
core : core sample
clst : claystone
lst : limestone
Rm : mean random reflectance
Std : standard deviation
N : number of readings
alt : alternativ interpretation
m.a. : Lignitic mud additive
ST. : Oil staining/bitumen impregnation (reduces reflectivity)

CODE FOR DATA QUALITY

The sample quality is characterized by five items as follows:

ooooo

- 1 : abundance of vitrinite
 - 2 : identification of vitrinite
 - 3 : type of vitrinite
 - 4 : particle size
 - 5 : particle surface quality
- + : may give a too high vitrinite reflectance value
o : has no effect on the resulting vitrinite reflectance
- : may give a too low vitrinite reflectance value

An ideal sample is characterized as follows: ooooo

TABLE 7
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

JOB 8546	LITHO	DEPTH/ IDENTITY	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
				Saturates	Aromatics	TOTAL	Preciptd. Asphaltenes	Eluted NSO s	Non-Eluted NSO s	TOTAL

WELL: 7/7-3

8546-049A	SWC	3413m	16916	4054	4802	8856	3782	4252	25	8059
8546-025A		3427m	18979	5006	8665	13671	2933	2375	1	5308
8546-027A		3439m	15820	4711	5722	10433	2511	2861	15	5387
8546-029B		3451m	12874	4456	4115	8571	1506	2785	13	4304
8546-053A	SWC	3471m	6405	2445	2105	4550	471	1371	14	1855
8546-031A	CORE	3486.10m	7487	1727	3199	4925	1405	1143	13	2561
8546-056A	SWC	3488m	9626	3046	2890	5936	1835	1838	17	3690
8546-033A	CORE	3489.48m	5844	1606	1954	3560	934	1345	6	2284
8546-034	CORE	3492.03m	678	133	133	266	282	127	2	411
8546-035	CORE	3493.00m	3816	1436	1090	2526	1001	278	6	1286
8546-036	CORE	3494.00m	6323	2800	2156	4956	818	539	6	1363
8546-037	CORE	3494.03m	6343	3131	1897	5029	538	732	7	1277
8546-038	CORE	3494.25m	7803	3404	2508	5912	927	916	9	1851
8546-039	CORE	3494.48m	6017	2482	2324	4806	574	631	6	1211
8546-040	CORE	3494.53m	1696	675	537	1212	282	199	2	483
8546-041	CORE	3495.60m	1240	317	230	547	505	155	1	661
8546-042	CORE	3496.73m	865	151	176	328	403	111	1	515
8546-043	CORE	3497.79m	673	222	121	342	286	21	0	307
8546-044	CORE	3500.71m	671	74	102	176	422	72	1	494
8546-045	CORE	3503.53m	443	118	38	156	180	100	1	281

TABLE 8
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

DB 8546 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	HYDROCARBONS		NON HYDROCARBONS		
			Saturates	Aromatics	Preciptd. Asphaltenes	Eluted NSO s	Non-Eluted NSO s

WELL: 7/7-3

8546-049A	SWC	3413m	23.97	28.39	22.36	25.14	0.15
8546-025A		3427m	26.38	45.65	15.45	12.51	0.00
8546-027A		3439m	29.78	36.17	15.88	18.08	0.09
8546-029B		3451m	34.61	31.96	11.70	21.63	0.10
8546-053A	SWC	3471m	38.17	32.87	7.35	21.40	0.22
8546-031A	CORE	3486.10m	23.07	42.72	18.77	15.27	0.18
8546-056A	SWC	3488m	31.65	30.02	19.06	19.09	0.18
8546-033A	CORE	3489.48m	27.48	33.43	15.98	23.02	0.09
8546-034	CORE	3492.03m	19.69	19.60	41.58	18.77	0.37
8546-035	CORE	3493.00m	37.62	28.56	26.24	7.29	0.16
8546-036	CORE	3494.00m	44.28	34.10	12.93	8.53	0.10
8546-037	CORE	3494.03m	49.37	29.91	8.48	11.54	0.11
8546-038	CORE	3494.25m	43.63	32.14	11.88	11.74	0.11
8546-039	CORE	3494.48m	41.25	38.62	9.54	10.49	0.11
8546-040	CORE	3494.53m	39.82	31.65	16.64	11.74	0.11
8546-041	CORE	3495.60m	25.55	18.58	40.69	12.47	0.12
8546-042	CORE	3496.73m	17.51	20.40	46.59	12.89	0.12
8546-043	CORE	3497.79m	32.92	17.92	42.46	3.06	0.07
8546-044	CORE	3500.71m	10.97	15.27	62.86	10.67	0.15
8546-045	CORE	3503.53m	26.58	8.56	40.65	22.64	0.23

TABLE 9
SIGNIFICANT C₁₅₊ RATIOS

JOB 8546	LITHO	DEPTH/ IDENTITY	EXTR TOC (%)	mg/g TOC						HYDROCARBONS % TOTAL EXTRACT	SATURATES AROMATICS
				TOTAL EXTRACT	SATURATES	AROMATICS	TOTAL HYDROCARBONS	ELUTED NSO s	ASPHALTENES		

WELL: 7/7-3

8546-049A	SWC	3413m	7.44	227.36	54.50	64.54	119.04	57.16	50.84	52.36	0.84
8546-025A		3427m	7.23	262.51	69.25	119.84	189.09	32.85	40.57	72.03	0.58
8546-027A		3439m	4.96	318.94	94.98	115.36	210.34	57.67	50.63	65.95	0.82
8546-029B		3451m	3.88	331.81	114.84	106.05	220.89	71.77	38.81	66.57	1.08
8546-053A	SWC	3471m	2.27	282.17	107.70	92.74	200.44	60.38	20.74	71.04	1.16
8546-031A	CORE	3486.10m	5.13	145.94	33.66	62.35	96.01	22.28	27.39	65.79	0.54
8546-056A	SWC	3488m	3.34	288.21	91.21	86.52	177.73	55.02	54.93	61.67	1.05
8546-033A	CORE	3489.48m	2.37	246.58	67.75	82.44	150.19	56.76	39.40	60.91	0.82
8546-034	CORE	3492.03m	0.29	233.68	46.01	45.79	91.80	43.86	97.17	39.28	1.00
8546-035	CORE	3493.00m	0.23	1659.24	624.24	473.92	1098.16	120.91	435.32	66.18	1.32
8546-036	CORE	3494.00m	0.20	3161.33	1399.81	1078.11	2477.91	269.53	408.77	78.38	1.30
8546-037	CORE	3494.03m	0.19	3338.62	1648.12	998.54	2646.66	385.38	283.18	79.27	1.65
8546-038	CORE	3494.25m	0.22	3546.67	1547.45	1139.96	2687.41	416.34	421.33	75.77	1.36
8546-039	CORE	3494.48m	0.16	3760.79	1551.17	1452.58	3003.74	394.36	358.74	79.87	1.07
8546-040	CORE	3494.53m	0.17	997.71	397.31	315.81	713.12	117.15	166.05	71.48	1.26
8546-041	CORE	3495.60m	0.23	539.15	137.76	100.19	237.95	67.21	219.37	44.13	1.38
8546-042	CORE	3496.73m	0.21	411.70	72.11	84.01	156.11	53.07	191.81	37.92	0.86
8546-043	CORE	3497.79m	0.27	249.40	82.10	44.68	126.79	7.63	105.90	50.84	1.84
8546-044	CORE	3500.71m	0.21	319.43	35.05	48.78	83.82	34.10	200.80	26.24	0.72
8546-045	CORE	3503.53m	0.19	232.99	61.92	19.94	81.86	52.74	94.72	35.14	3.11

TABLE 10
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	049A	025A	027A	029B	053A	031A
DEPTH	3413m	3427m	3439m	3451m	3471m	3486.1m
SAMPLE TYPE						
nC15	15.30	14.91	14.84	9.35	7.57	21.69
nC16	11.88	11.08	10.51	7.67	6.70	15.16
nC17	9.19	8.29	7.27	6.91	6.09	10.15
nC18	8.15	7.47	6.64	7.02	6.46	8.00
nC19	8.79	7.96	7.31	8.21	7.74	7.26
nC20	8.02	7.54	7.49	8.30	7.49	6.48
nC21	7.41	6.62	6.86	7.48	7.66	5.34
nC22	6.82	6.21	6.56	7.61	7.39	4.73
nC23	5.99	5.23	5.58	6.84	7.16	4.05
nC24	4.91	5.03	5.58	6.33	6.41	3.54
nC25	3.80	3.45	3.80	5.31	5.81	2.58
nC26	2.78	3.45	3.87	4.29	5.01	2.45
nC27	2.07	2.33	2.57	3.18	4.17	1.69
nC28	1.42	2.84	2.21	2.62	4.34	2.15
nC29	1.27	2.01	2.22	2.38	3.12	1.58
nC30	0.68	1.44	1.69	1.64	1.93	0.93
nC31	0.52	1.12	1.33	1.23	1.63	0.71
nC32	0.46	0.98	1.03	0.95	1.15	0.59
nC33	0.28	1.10	1.20	1.13	1.24	0.45
nC34	0.19	0.56	0.95	1.14	0.62	0.37
nC35	0.09	0.38	0.50	0.41	0.30	0.11
Paraffin	23.05	11.81	16.23	14.85	18.76	15.03
Isoprenoid	3.11	1.54	1.99	1.59	1.55	2.17
Naphthene	73.84	86.65	81.78	83.56	79.69	82.80
CPI 1 Index	1.03	0.90	0.92	0.98	1.01	0.93
CPI 2 Index	1.11	0.86	0.94	1.04	1.01	0.90
CPI 3 Index	0.99	0.74	0.85	0.92	0.89	0.73
Prist/Phytane	1.55	1.05	1.20	1.11	1.17	1.47
Prist/nC17	0.56	0.52	0.59	0.57	0.48	0.48
Phytane/nC18	0.41	0.55	0.54	0.51	0.38	0.42

Job Number : 8546

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 10
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	056A	033A	035	037	038	039
DEPTH	3488m	3489.48m	3493m	3494.03m	3494.25m	3494.48m
SAMPLE TYPE						
nC15	19.61	14.51	3.46	4.23	5.10	3.31
nC16	14.52	11.18	4.58	5.09	7.38	4.67
nC17	8.26	8.81	5.64	5.51	8.86	5.58
nC18	6.69	8.17	6.79	6.10	9.43	6.78
nC19	7.39	8.42	8.08	7.22	10.18	7.99
nC20	6.86	7.79	8.46	7.61	8.87	8.19
nC21	6.16	6.85	7.96	7.20	7.57	7.54
nC22	5.53	6.09	7.88	7.15	6.70	7.33
nC23	4.88	5.27	7.06	6.67	5.71	6.56
nC24	4.19	4.63	6.98	6.77	5.39	6.59
nC25	3.45	3.90	5.10	4.99	3.73	4.93
nC26	2.75	3.22	5.36	5.40	3.95	5.25
nC27	2.19	2.51	3.73	3.83	2.63	3.64
nC28	1.72	2.11	3.44	3.84	2.51	3.68
nC29	1.64	1.94	3.24	3.65	2.64	3.43
nC30	1.10	1.31	2.58	3.00	1.92	2.89
nC31	0.89	1.02	2.15	2.52	1.76	2.41
nC32	0.67	0.69	1.97	2.20	1.45	2.14
nC33	0.79	0.89	1.97	2.70	1.64	2.70
nC34	0.40	0.39	2.73	3.45	2.13	3.55
nC35	0.32	0.28	0.82	0.85	0.45	0.83
Paraffin	16.77	15.49	15.16	14.16	19.51	13.82
Isoprenoid	2.17	3.54	1.72	1.92	2.69	1.86
Naphthene	81.06	80.97	83.12	83.92	77.80	84.32
CPI 1 Index	1.02	1.00	0.92	0.91	0.92	0.91
CPI 2 Index	1.07	1.05	0.92	0.91	0.94	0.91
CPI 3 Index	0.98	0.94	0.85	0.83	0.81	0.82
Prist/Phytane	1.52	1.54	1.08	1.07	1.18	1.09
Prist/nC17	0.54	0.78	0.78	0.92	0.64	0.93
Phytane/nC18	0.44	0.55	0.60	0.77	0.51	0.71

Job Number : 8546

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11

ADDITIONAL SATURATES RATIOS

GEOCHEM SAMPLE NUMBER	DEPTH	SAMPLE TYPE	A/B		$\frac{nC_{17}}{nC_{17} + nC_{27}}$
			A = $\frac{pr}{nC_{17}}$	B = $\frac{Ph}{nC_{18}}$	
8546-49A	3413m	SWC	1.37		0.82
8546-25A	3427m	Cuttings	0.95		0.78
8546-27A	3439m	Cuttings	1.09		0.74
8546-29B	3451m	Cuttings	1.12		0.68
8546-53A	3471m	SWC	1.26		0.59
8546-31A	3486.10m	Core	1.14		0.86
8546-56A	3488m	SWC	1.23		0.79
8546-33A	3489.48m	Core	1.42		0.78
8546-35	3493.00m	Core	1.30		0.60
8546-37	3494.03m	Core	1.19		0.59
8546-38	3494.25m	Core	1.25		0.77
8546-39	3494.48m	Core	1.31		0.61

TABLE 12
AROMATICS RATIOS

Geochem Sample Number	Depth	MPI1	F1	F2
8546-049A	3413m	0.46	0.36	0.20
8546-025A	3427m	0.45	0.34	0.18
8546-027A	3439m	0.49	0.35	0.17
8546-029B	3451m	0.48	0.36	0.19
8546-031A	3486.06-3486.10m	0.50	0.37	0.19
8546-053A	3471m	0.50	0.38	0.19
8546-056A	3488m	0.49	0.37	0.19
8546-033A	3489.44-3489.48m	0.52	0.38	0.20
8546-035	3492.98-3493.00m	0.53	0.36	0.20
8546-037	3494.00-3494.03m	0.50	0.36	0.19
8546-038	3494.23-3494.25m	0.50	0.38	0.20
8546-039	3494.41-3494.48m	0.52	0.36	0.20

$$MPI1 = \frac{3/2 (2-MP + 3-MP)}{P + 1-MP + 9-MP}$$

$$F1 = \frac{3-MP + 2-MP}{3-MP + 2-MP + 9-MP + 1-MP}$$

$$F2 = \frac{2-MP}{3-MP + 2-MP + 9-MP + 1-MP}$$

TABLE 13

BIOMARKER ABUNDANCES - STERANES (PEAK AREAS), M/Z 217

GEOCHEM SAMPLE NUMBER		8546 049DD	8546 025DD	8546 027DD	8546 029DD	8546 053DD
DEPTH (m)		3413	3427	3439	3451	3471
SAMPLE TYPE		SWC	Cuttings	Cuttings	Cuttings	Cuttings
PEAK	27d β S	4973	11646	4008	765	1034
	27d β R	3449	8542	2685	563	739
	28d α R + 27 α \alpha S	2990	8464	1869	423	569
	27 α \alpha R	1209	3616	715	168	235
	29d β S + 27 β \beta R	4194	10797	3196	687	1043
	29d β R	3119	8447	2787	546	738
	29 α \alpha S	1275	4242	1047	230	324
	29 β \beta R	1937	5894	1886	422	400
	29 β \beta S	1529	3937	1385	292	271
	29 α \alpha R	1233	3562	1020	192	216

TABLE 13

BIOMARKER ABUNDANCES - STERANES (PEAK AREAS), M/Z 217

GEOCHEM SAMPLE NUMBER		8546 031DD	8546 056DD	8546 033DD	8546 035DD	8546 037DD
DEPTH (m)		3486.10	3488	3489.48	3493.00	3494.03
SAMPLE TYPE		Core	Cuttings	Core	Core	Core
PEAK	27d β S	13456	1468	3727	1216	1477
	27d β R	8975	957	2573	817	945
	28daR + 27aaS	7268	822	2179	717	785
	27aaR	3106	458	1061	328	255
	29d β S + 27 β β R	10138	1298	3146	1131	1265
	29d β R	6327	837	1969	836	910
	29aaS	3618	370	884	380	370
	29 β β R	5894	687	1754	702	725
	29 β β S	3884	617	1358	579	582
	29aaR	3326	372	889	376	337

TABLE 13

BIOMARKER ABUNDANCES - STERANES (PEAK AREAS), M/Z 217

GEOCHEM SAMPLE NUMBER		8546 038DD	8546 039DD			
DEPTH (m)		3494.25	3494.48			
SAMPLE TYPE		Core	Core			
PEAK	27d β S	4286	652			
	27d β R	2940	468			
	28d α R + 27 $\alpha\alpha$ S	2702	318			
	27 $\alpha\alpha$ R	1013	130			
	29d β S + 27 $\beta\beta$ R	4087	604			
	29d β R	2858	442			
	29 $\alpha\alpha$ S	1167	143			
	29 $\beta\beta$ R	2280	396			
	29 $\beta\beta$ S	1497	240			
	29 $\alpha\alpha$ R	1187	152			

TABLE 14

BIOMARKER ABUNDANCES - STERANES (PEAK AREAS), M/Z 218

GEOCHEM SAMPLE NUMBER		8546 049DD	8546 025DD	8546 027DD	8546 029DD	8546 053DD
DEPTH (m)		3413	3427	3439	3451	3471
SAMPLE TYPE		SWC	Cuttings	Cuttings	Cuttings	Cuttings
PEAK	<i>27$\beta$$\beta$R</i>	2813	8361	2401	510	615
	<i>27$\beta$$\beta$R</i>	2283	6654	2004	354	395
	<i>28$\beta$$\beta$R</i>	2097	6372	1826	342	333
	<i>28$\beta$$\beta$S</i>	2263	7094	1880	372	382
	<i>29$\beta$$\beta$R</i>	2135	6712	1957	350	438
	<i>29$\beta$$\beta$S</i>	2152	5913	1936	443	540
	<i>30$\beta$$\beta$R</i>	590	2093	826	131	113
	<i>30$\beta$$\beta$S</i>	730	2572	595	132	110

TABLE 14

BIOMARKER ABUNDANCES - STERANES (PEAK AREAS), M/Z 218

GEOCHEM SAMPLE NUMBER		8546 031DD	8546 056DD	8546 033DD	8546 035DD	8546 037DD
DEPTH (m)		3486.10	3488	3489.48	3493.00	3494.03
SAMPLE TYPE		Core	Cuttings	Core	Core	Core
PEAK	27 $\beta\beta$ R	9116	1086	2838	818	923
	27 $\beta\beta$ R	7828	837	2077	703	733
	28 $\beta\beta$ R	5768	647	1587	566	655
	28 $\beta\beta$ S	5828	726	1756	643	737
	29 $\beta\beta$ R	5280	770	1926	707	771
	29 $\beta\beta$ S	6667	819	2003	727	800
	30 $\beta\beta$ R	1914	214	508	251	273
	30 $\beta\beta$ S	1540	222	422	206	237

TABLE 14

BIOMARKER ABUNDANCES - STERANES (PEAK AREAS), M/Z 218

GEOCHEM SAMPLE NUMBER		8546 038DD	8546 039DD			
DEPTH (m)		3494.25	3494.48			
SAMPLE TYPE		Core	Core			
PEAK	<i>27$\beta\beta$R</i>	2906	496			
	<i>27$\beta\beta$R</i>	2521	397			
	<i>28$\beta\beta$R</i>	2201	268			
	<i>28$\beta\beta$S</i>	2395	330			
	<i>29$\beta\beta$R</i>	2708	352			
	<i>29$\beta\beta$S</i>	2460	444			
	<i>30$\beta\beta$R</i>	737	98			
	<i>30$\beta\beta$S</i>	1013	99			

TABLE 15

BIOMARKER ABUNDANCES - TRITERPANES (PEAK AREAS)

GEOCHEM SAMPLE NUMBER		8546 049DD	8546 025DD	8546 027DD	8546 029DD	8546 053DD
DEPTH (m)		3413	3427	3439	3451	3471
SAMPLE TYPE		SWC	Cuttings	Cuttings	Cuttings	Cuttings
PEAK	23/3	1501	3875	1056	320	263
	24/3	997	4060	1167	216	134
	25/3	1268	5250	1623	272	192
	24/4	868	2255	680	119	166
	26/3	1019	3159	975	193	132
	27Ts	2269	4827	1656	322	470
	27Tm	1204	2032	710	166	351
	28 $\alpha\beta$	1301	4252	1730	702	265
	29 $\alpha\beta$	4074	7208	2458	807	1288
	29Ts	3237	7314	2666	556	810
	30d	2052	3243	1130	401	508
	29 $\beta\alpha$	359	851	327	91	217
	Oleanane 30 0	0	0	0	0	0
	30 $\alpha\beta$	11619	18624	6794	1992	3089
	30 $\beta\alpha$	1459	1229	533	200	477
30G	295	1227	526	147	147	
31 $\alpha\beta$ S	4975	11784	4643	1304	1919	

TABLE 15

BIOMARKER ABUNDANCES - TRITERPANES (PEAK AREAS)

GEOCHEM SAMPLE NUMBER		8546 049DD	8546 025DD	8546 027DD	8546 029DD	8546 053DD
DEPTH (m)		3413	3427	3439	3451	3471
SAMPLE TYPE		SWC	Cuttings	Cuttings	Cuttings	Cuttings
PEAK	31 α β R	3272	7743	3157	938	1309
	32 α β S+32 α β R	3867/ 2789	8777/ 5677	3605/ 2483	1055/ 799	1520/ 1057
	33 α β S+33 α β R	3605/ 2196	7099/ 4295	3298/ 2011	905/ 555	900/ 618
	34 α β S+34 α β R	1958/ 1089	3436/ 1953	1841/ 1111	569/ 384	674/ 390
	35 α β S+35 α β R	1893/ 1298	3500/ 2287	2043/ 1333	600/ 400	398/ 254
	25 nor 28 α β	429	965	189	67	172
	25 nor 30 α β	0	0	0	0	0

TABLE 15

BIOMARKER ABUNDANCES - TRITERPANES (PEAK AREAS)

GEOCHEM SAMPLE NUMBER		8546 031DD	8546 056DD	8546 033DD	8546 035DD	8546 037DD
DEPTH (m)		3486.10	3488	3489.48	3493.00	3494.03
SAMPLE TYPE		Core	Cuttings	Core	Core	Core
PEAK	23/3	6428	521	1759	448	532
	24/3	4682	375	1086	435	541
	25/3	5725	499	1479	627	650
	24/4	3430	308	863	241	289
	26/3	3753	433	951	357	381
	27Ts	7442	732	1859	549	538
	27Tm	4547	481	1238	297	327
	28 $\alpha\beta$	7151	749	2613	842	600
	29 $\alpha\beta$	13517	1781	3900	1001	920
	29Ts	9476	981	2936	879	861
	30d	4116	499	901	369	395
	29 $\beta\alpha$	1693	156	290	199	106
	Oleanane 30 0	0	0	0	0	0
	30 $\alpha\beta$	32899	3802	9062	2427	2515
	30 $\beta\alpha$	3523	366	905	254	217
30G	2631	194	838	170	178	
31 $\alpha\beta$ S	14564	2002	4008	1434	1606	

TABLE 15

BIOMARKER ABUNDANCES - TRITERPANES (PEAK AREAS)

GEOCHEM SAMPLE NUMBER		8546 031DD	8546 056DD	8546 033DD	8546 035DD	8546 037DD
DEPTH (m)		3486.10	3488	3489.48	3493.00	3494.03
SAMPLE TYPE		Core	Cuttings	Core	Core	Core
PEAK	31 α β R	10045	1315	2780	1025	1099
	32 α β S+32 α β R	10318/ 7177	1713/ 1110	2702/ 1839	1077/ 706	1087/ 788
	33 α β S+33 α β R	5651/ 3436	1169/ 764	1992/ 1257	905/ 476	1095/ 598
	34 α β S+34 α β R	2765/ 1632	725/ 368	1221/ 652	573/ 476	588/ 345
	35 α β S+35 α β R	2424/ 1546	701/ 458	1217/ 784	562/ 394	653/ 428
	25 nor 28 α β	866	128	146	618	130
	25 nor 30 α β	0	0	0	0	0

TABLE 15

BIOMARKER ABUNDANCES - TRITERPANES (PEAK AREAS)

GEOCHEM SAMPLE NUMBER		8546 038DD	8546 039DD			
DEPTH (m)		3494.25	3494.25			
SAMPLE TYPE		Core	Core			
PEAK	23/3	1368	236			
	24/3	1326	234			
	25/3	1844	310			
	24/4	810	145			
	26/3	1218	200			
	27Ts	1648	280			
	27Tm	876	145			
	28 $\alpha\beta$	2046	305			
	29 $\alpha\beta$	3216	444			
	29Ts	2583	438			
	30d	1235	200			
	29 $\beta\alpha$	504	65			
	Oleanane 30 0	0	0			
	30 $\alpha\beta$	8231	1232			
	30 $\beta\alpha$	857	100			
30G	621	83				
31 $\alpha\beta$ S	5084	758				

TABLE 15

BIOMARKER ABUNDANCES - TRITERPANES (PEAK AREAS)

GEOCHEM SAMPLE NUMBER		8546 038DD	8546 037DD			
DEPTH (m)		3494.25	3494.48			
SAMPLE TYPE		Core	Core			
PEAK	31 α β R	3441	513			
	32 α β S+32 α β R	4091/ 2930	553/ 437			
	33 α β S+33 α β R	3830/ 2230	519/ 318			
	34 α β S+34 α β R	2197/ 1292	274/ 203			
	35 α β S+35 α β R	2549/ 1702	399/ 235			
	25 nor 28 α β	380	90			
	25 nor 30 α β	0	0			

TABLE 16

BIOMARKER ABUNDANCES (PEAK AREAS) - MONOAROMATIC STERANES (M/Z 253)

GEOCHEM		8546	8546	8546	8546	8546	8546	8546	8546	8546	8546	8546	8546
SAMPLE NUMBER		049A	025A	027A	029A	053A	031A	056A	033A	035A	037A	038A	039A
DEPTH (m)		3413	3427	3439	3451	3471	3486.10	3488	3489.48	3493.00	3494.03	3494.25	3494.48
SAMPLE TYPE		SWC	Cuttings	Cuttings	Cuttings	Cuttings	Core	Cuttings	Core	Core	Core	Core	Core
PEAK	A1	471	376	375	402	537	621	1558	388	730	965	612	746
	B1	460	542	454	400	518	504	1594	391	747	1048	856	919
	C1	353	466	543	407	631	344	1611	414	702	984	669	813
	D1	284	388	489	389	568	386	1075	423	580	770	569	627
	E1	518	635	798	587	996	492	1589	534	955	1250	912	1004
	F1	223	150	286	230	440	156	567	182	360	451	320	330
	G1	627	755	888	702	1055	533	2233	578	1205	1568	1134	1137
	H1	455	487	557	473	818	524	1399	488	610	760	673	607
	I1	165	114	109	90	224	134	213	102	145	180	164	105

TABLE 17

BIOMARKER ABUNDANCES (PEAK AREAS) - TRIAROMATIC STERANES (M/Z 231)

GEOCHEM		8546	8546	8546	3546	8546	8546	8546	8546	8546	8546	8546	8546
SAMPLE NUMBER		049A	025A	027A	029A	053A	031A	056A	033A	035A	037A	038A	039A
DEPTH (m)		3413	3427	3439	3451	3471	3486.10	3488	3489.48	3493.00	3494.03	3494.25	3494.48
SAMPLE TYPE		SWC	Cuttings	Cuttings	Cuttings	Cuttings	Core	Cuttings	Core	Core	Core	Core	Core
PEAK	a1	8242	5574	5339	4630	8200	6633	16550	5527	3778	5655	5053	5220
	b1	6287	5262	5423	4579	6575	6542	13955	5286	3900	5138	4758	4817
	c1	1498	847	894	1177	2114	1243	2551	1214	552	789	789	737
	d1	4937	3731	3680	4091	6202	3524	6702	4003	2334	3344	3270	2907
	e1	2473	1982	1883	2265	3486	1754	3533	2044	1318	1859	1881	1719
	f1	2669	2226	2163	2329	3272	1641	3072	1785	1255	1830	1825	1543
	g1	2391	1727	1928	2085	2764	1549	2406	1558	1122	1606	1661	1368

TABLE 18
BIOMARKER MOLECULAR RATIOS

GEOCHEM SAMPLE NUMBER		8546 049	8546 025	8546 027	8546 029	8546 053	8546 031	8546 056	8546 033	8546 035	8546 037	8546 038	8546 039
DEPTH (m)		3413	3427	3439	3451	3471	3486.10	3488	3489.48	3493.00	3494.03	3494.25	3494.48
M/Z	PEAKS	IDENTITY											
191	27 Tm/27 Ts	0.53	0.42	0.43	0.52	0.75	0.61	0.66	0.67	0.54	0.61	0.53	0.52
191	32 $\alpha\beta$ S/(31 $\alpha\beta$ S+31 $\alpha\beta$ R)	C ₃₁ hH-S/R	0.60	0.60	0.60	0.58	0.59	0.59	0.60	0.59	0.58	0.59	0.60
178 192	MPI 1	MP Index	0.57	0.49	0.49	0.52	0.63	0.53	0.61	0.56	0.64	0.57	0.60
178 192	MPI 2	MP Index	0.65	0.53	0.54	0.58	0.71	0.58	0.67	0.63	0.70	0.62	0.67
231	a1/(a1+e1+g1)	Triaromatic St	0.63	0.60	0.58	0.52	0.57	0.67	0.74	0.61	0.61	0.62	0.59
217	29aaaS/29 $\beta\beta$ R	C ₂₉ aa St	1.03	1.19	1.03	1.20	1.50	1.09	0.99	0.99	1.01	1.10	0.98
217	29 $\beta\beta$ /(29aa+29 $\beta\beta$)	C ₂₉ St	0.58	0.56	0.61	0.63	0.55	0.58	0.64	0.64	0.63	0.65	0.62
191	29 $\alpha\beta$ /30 $\alpha\beta$	NorH	0.35	0.39	0.36	0.41	0.42	0.41	0.47	0.43	0.41	0.37	0.39
191	28 $\alpha\beta$ /30 $\alpha\beta$	Bisnorh	0.11	0.23	0.25	0.35	0.09	0.22	0.20	0.29	0.35	0.24	0.25
191	hH/(27Ts, 27Tm, 29 $\alpha\beta$, 30 $\alpha\beta$)	hH/H	1.41	1.71	2.20	2.28	1.74	1.03	1.52	1.15	1.75	1.93	2.10
191	Tricyclic Terpanes/(27Ts, 27Tm, 29 $\alpha\beta$, 30 $\alpha\beta$)		0.29	0.57	0.47	0.34	0.17	0.41	0.31	0.38	0.49	0.56	0.47
191	24/4:23/3	C ₂₄ /C ₂₃	0.58	0.58	0.64	0.37	0.63	0.53	0.59	0.49	0.54	0.54	0.59
191	35 $\alpha\beta$ /34 $\alpha\beta$	35/34 hH	1.05	1.07	1.14	1.05	0.61	0.88	1.06	1.07	1.05	1.16	1.22
218	27 $\beta\beta$:28 $\beta\beta$:29 $\beta\beta$	$\beta\beta$ St	37:32:31	37:33:31	37:31:32	36:30:33	37:26:36	42:29:30	39:28:33	37:29:34	36:30:34	36:30:34	39:26:35
191	(27Ts, 27Tm, 29 $\alpha\beta$, 30 $\alpha\beta$, 27 $\alpha\beta$ S → 30aaR)	H/St	0.74	0.47	0.56	0.77	0.93	0.89	0.86	0.82	0.60	0.56	0.58

hH = Homohopanes H = Hopanes M = methyl

TABLE 19
CARBON ISOTOPE COMPOSITIONS (‰, PDB)

JOB 8546								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	TOTAL EXTRACT WHOLE OIL	SATURATES	AROMATICS	NSO	ASPHALTENES	KEROGEN	PYROLYSATE (S2)

WELL: 7/7-3

8546-049	SWC 3413m	-30.20 -30.30	-30.00	-30.30	-30.30	-30.50		
8546-027	3439m	-30.50	-30.60	-30.30	-29.90	-29.90		
8546-029	3451m	-30.60	-31.00	-30.50	-30.50	-30.50		
8546-031	CORE 3486.10m	-25.50	-28.00	-25.70	-25.40	-24.70		
8546-031	CORE 3486.10m		-28.00	-25.90				
8546-035	CORE 3493.00m	-30.20	-30.85	-26.00	-29.20	-27.90 -28.30		
8546-038	CORE 3494.25m	-30.30	-30.80	-30.10	-29.70	-29.60		