

FMT/RCI PRESSURE MEASUREMENTS

Run No.	Depth in MD RKB	Depth in TVD MSL	Formation Pressure, kPa	Comments
FMT 2A	1938,5	1915,26	19804	Moderate perm.
	1940,0			No seal
	1940,1	1916,86	19799	Moderate
	1981,5			No seal
	1982,0			No seal
	1982,5			No seal
	2030,0			No seal
	2032,5	2009,20	20516	Good
	2033,8			Tight
	2044,0			No seal
	2043,8	2020,49	20583	Good
	2051,0	2027,69	20655	Good
	2056,0	2032,69	20703	Moderate
	2061,7	2038,38	20757	Moderate
	2065,0	2041,68	20790	Moderate
	2071,5		25052	Low , superch.
	2106,7			No seal
	2129,0			Tight
	2031,5	2008,20	20519	Good
	2030,0	2006,70	20534	Good
	2007,0			Tight
	1992,0			No seal
	1992,5			No seal
	1993,0			No seal
	1994,0			No seal
	1985,0			No seal
1983,5			No seal	
1938,7	1915,46	21387	Low, superch.	
1938,2		19795	Low	
FMT 3C	2013			No seal
	2013			No seal
	2012,9			No seal
	2033,8		20885	Tight
	2051	2027,59	20643	Superch
	2050,9			Good
FMT 3C	2043,8	2020,49	20595	Good
	2072		20948	Superch
	2106,6			Tight
	2175,6	2152,21	22052	Good
	2220			No seal
	2219,9			Tight
	2229			Tight

Run No	Depth m MD RKB	Depth m TVD RKB	Formation Pressure kPa	Comments
FMT 3C	2276,5			Tight
	2331,9			No seal
	2331,9			No seal
	2397,5			No seal
	2778,6	2754,06	28882	Good
	2780,8	2756,05	28888	Good
	2783	2758,44	28891	Good
	2789	2764,40	28901	Good
	2793	2768,37	28907	Good
	2795	2770,36	28916	Good
	2798,9	2765,29	28951	Good
	2801	2776,32	28973	Good
	2811	2786,24	29072	Good
	2826,1	2801,14	29221	Good
	2865,5	2840,07	29596	Good
	2877,5	2851,91	29710	Good
	2787	2762,41	28896	Good
	2011,3			No seal
2011,2			No seal	
RCI 3A	2043,8	2020,49	20618	Good (lost seal)
	2043,8	2020,49	20619	Lost seal
	2043,8			Tool plugging
	2043,8			Tool plugging
	2043,9			Tool plugging
	2051			Tool Plugging
	2050,9			Tool Plugging
	2051,1			Tool Plugging
	2044			Tool Plugging
	2043,9			Tool Plugging
RCI 3B	1938,1	1914,86	19.840	Good
	1935,5			Tool plugging
	2933,5			Tool plugging
	2032,4			Tool plugging
	2032,6			Tool Plugging
	2031,5			Tool Plugging
	2043,8			Tool Plugging
	2043,9			Tool Plugging
FMT 3D	2032,5	2009,20	20510	Good
	2032,5	2009,20	20510	Good
FMT 3E	2051,1	2027,59	20670	Good
	2051,1	2027,59	20661	Good

Table 3.3.1

FMT SAMPLING RESULTS/ONSITE ANALYSIS

Tool/ Run no.	Depth (in MDRKB)	Sample	Cl (mg/l)	pH	Resistivity	Content	Remarks
FMT 3C	2787.0	10 litre	65000.0	8.1	0.0755 at 8.9C	1 liter mudfiltrat + gas	
FMT 3C	2787.0	4 litre	NA	NA	NA	NA	Sample sent to PVT lab.
-	2787.0	Mud	73000.0	8.2			
FMT 3E	2051.0	30 litre	51000.0	8.2	0.108 at 12.6	29 litre mudfiltrat/form. water ? No. trace of oil.	No sample from 4 litre chamber (tool plugged)
RCI 3A	2043.8	10 litre	68000.0	8.3		8.5 litre mud/mudfiltrate + oil film	Lost seal during sampling. Sample contaminated with mud.
FMT 3D	2032.5	10 litre	66000.0	7.4 7.3	0.0712 at 9.54C 0.0786 at 10.0C	6.0 litre mudfiltrate + small amounts of oil and formation water	
FMT 3D	2032.5	4 litre	64000.0	7.1	0.0774 at 10.6C	3.6 litre mudfiltrate + small amounts of oil and formation water	
-	2032.5	Mud	74000.0	8.3			
RCI 3B	1938.0	4 litre	56000.0	8.5		0.2 litre mudfiltrate + small amounts of gas	Only 0.2 litre fluid in sample chamber. Questionable sample quality.
RCI 3B	1938.0	600 cc	NA	NA	NA	Dry gas + small amounts of mud filtrate	Sample sent to PVT lab. for analysis

Table 3.3.2

Daily Mud Properties - Minimum, Maximum, Average

Anchor Drilling Fluids

Operator: Statoil

Well: 6204/11-1

Rig: Deep Sea Bergen

Date	FSR #	System	Well Number	Section	Time	Depth MD	Depth TVD	Last Survey	Degrees C >		Flow Properties																PV cP	YP Pa	Gels 10 sec	Gels 10 min	HTHP F.Loss	Cake mm
									Temp In	Temp Out	Density kg/m3	Funnel Vls/qt	600 rpm	300 rpm	200 rpm	100 rpm	60 rpm	30 rpm	6 rpm	3 rpm	*n" 600/300	*K" 600/300	*n" 60/6	*K" 60/6								
11-10-94	1	PHB	6204/11-1	36	24:00	265	265			1.05	100+												0	0								
12-10-94	2	PHB	6204/11-1	36	24:00	288	288			1.05	100+												0	0								
13-10-94	3	PHB	6204/11-1	36	2:30	281	281			1.20	100+												0	0								
14-10-94	4	PHB	6204/11-1	26		540	540			1.40	100+												0	0								
15-10-94	5	Brine	6204/11-1																				0	0								
16-10-94	6	KCL/POL	6204/11-1	26	15:00	540	540			1.12		96	65										31	17								
17-10-94	7	KCL/POL	6204/11-1	26	14:00	540	540			1.12	70	46	31	25	18	15	11	5	4	0.57	4.55	0.48	8.42	15	8	1.0	2.0					
18-10-94	8	KCL/POL	6204/11-1	17 1/2	18:30	543	543		18	1.07	54	56	38	28	17	14	11	5	4	0.56	5.94	0.45	9.03	18	10	2.0	3.0					
18-10-94	8	KCL/POL	6204/11-1	17 1/2	24:00	614	614		20	1.08	51	52	35	26	16	12	10	4	3	0.57	5.08	0.48	6.74	17	9	1.5	2.5					
19-10-94	9	KCL/POL	6204/11-1	17 1/2	8:30	903	903		31	1.14	48	66	49	39	27	20	14	7	5	0.43	17.18	0.46	12.38	17	16	2.0	4.0					
19-10-94	9	KCL/POL	6204/11-1	17 1/2	9:45	941	941		32	1.14	50	67	47	38	27	21	16	8	6	0.51	9.90	0.42	15.41	20	13.5	2.0	4.0					
19-10-94	9	KCL/POL	6204/11-1	17 1/2	24:00	1,255	1255		33	1.13	51	70	45	37	26	21	16	8	6	0.64	4.33	0.42	15.41	25	10	2.0	4.5					
20-10-94	10	KCL/POL	6204/11-1	17 1/2	10:30	1493	1493		36	1.15	54	56	39	30	22	16	12	6	4	0.52	7.70	0.43	11.38	17	11	2.0	3.0					
20-10-94	10	KCL/POL	6204/11-1	17 1/2	14:15	1547	1547		38	1.15	63	71	50.5	41	30	25	18	9	7	0.49	12.05	0.46	14.90	20.5	15	3.5	5.5					
20-10-94	10	KCL/POL	6204/11-1	17 1/2	24:00	1767	1767		38	1.16	65	73	51	41	30	25	18	9	7	0.52	10.35	0.44	16.38	22	14.5	3.5	5.5					
21-10-94	11	KCL/POL	6204/11-1	17 1/2	21:30	1830	1830			1.20	68	74	52	42	32	25	18	9	7	0.51	11.12	0.44	16.38	22	15	4.0	6.0					
22-10-94	12	KCL/POL	6204/11-1	17 1/2	10:00	1830	1830			1.22		73	51	41	31	25	17	9	7	0.52	10.35	0.44	16.38	22	14.5	4.0	4.0					
22-10-94	12	KCL/POL	6204/11-1	17 1/2	21:30	1830	1830			1.22		74	52	42	32	26	17	9	7	0.51	11.12	0.46	15.74	22	15		4.0					
23-10-94	13	KCL/POL	6204/11-1	17 1/2	18:30	1830	1830			1.21		73	51	42	30	25	17	8	6	0.52	10.35	0.49	12.93	22	14.5	4.0	4.0					
23-10-94	13	KCL/POL	6204/11-1	17 1/2	21:30	1830	1830			1.18		73	51	42	30	25	17	8	6	0.52	10.35	0.49	12.93	22	14.5	6.0	6.0					
24-10-94	14	KCL/POL	6204/11-1	17 1/2	10:00	1830	1830			1.18		73	51	42	30	25	17	8	6	0.52	10.35	0.49	12.93	22	14.5	4.0	6.0					
24-10-94	14	KCL/POL	6204/11-1	17 1/2	21:30	1830	1830			1.18		73	51	42	30	25	17	8	6	0.52	10.35	0.49	12.93	22	14.5	4.0	6.0					
Minimum				17 1/2						18.00	1.07	48.00	46	31	25	16	12	10	4	3	0.43	4.33	0.42	6.74	15.00	8.00	1.0	2.0				
Maximum				17 1/2						38.00	1.22	70.00	96	65	42	32	26	18	9	7	0.64	17.18	0.49	16.38	31.00	17.00	6.0	6.0				
Average				17 1/2						30.75	1.16	57.40	69	48	37	27	22	15	7	6	0.53	9.44	0.46	13.14	20.97	13.32	3.0	4.4				
Spec				17 1/2						1.08-1.2										4-8			Min	10/15								
25-10-94	15	KCL/POL	6204/11-1	12 1/4	13:00	1833	1833			1.20	67	73	50	41	29	23	16	8	6	0.55	8.50	0.46	14.06	23	13.5	3.0	6.0	18.8				
25-10-94	15	KCL/POL	6204/11-1	12 1/4	19:00	1900	1900		32	1.20	60	65	46	37	26	20	14	6	4	0.50	10.49	0.52	9.09	19	13.5	2.0	4.0	18.8				
25-10-94	15	KCL/POL	6204/11-1	12 1/4	24:00	1947	1947		35	1.20	70	64	46	36	26	20	14	6	4	0.48	12.06	0.52	9.09	18	14	2.0	4.0	18.8				
26-10-94	16	KCL/POL	6204/11-1	12 1/4	4:30	1964	1964		35	1.20	80	86	59	49	33	25	17	7	5	0.54	10.17	0.55	9.89	27	16	2.5	5.5	18.6				
26-10-94	16	KCL/POL	6204/11-1	12 1/4	22:00	2008	2008		35	1.20	68	71	49	38	26	19	13	6	4	0.53	8.91	0.50	9.57	22	13.5	2.0	4.5	18.6				
27-10-94	17	KCL/POL	6204/11-1	12 1/4	5:00				35	1.20	68	71	49	38	26	19	13	6	4	0.53	8.91	0.50	9.57	22	13.5	2.0	4.5	18.6				
27-10-94	17	KCL/POL	6204/11-1	12 1/4	24:00	2,027	2027		30	1.20	72	68	47	36	24	18	12	6	4	0.53	8.67	0.48	10.10	21	13	2.0	3.5	18.6				
28-10-94	18	KCL/POL	6204/11-1	12 1/4	11:30	2,027	2027		26	1.20	72	68	47	36	24	18	12	6	4	0.53	8.67	0.48	10.10	21	13	2.0	3.5	18.6				
28-10-94	18	KCL/POL	6204/11-1	12 1/4	14:00	2,065	2065		29	1.20	65	68	46	36	24	18	12	6	4	0.56	6.99	0.48	10.10	22	12	2.0	3.5	18.6				
28-10-94	18	KCL/POL	6204/11-1	8 1/2	22:00	2,133	2133			1.27	67	80	53	44	29	21	14	6	4	0.59	6.68	0.54	8.65	27	13	2.0	3.0					

Daily Mud Properties - Minimum, Maximum, Average

Anchor Drilling Fluids

Operator: Statoil

Well: 6204/11-1

Rig: Deep Sea Bergen

< >		Chemical Properties								< >		Solids Properties							FSR #
API	Cake	pH	PI	MI	Total	Ca ++	Mg ++	K+	Cl-	Solids	Water	Solids	Sand	MBT	HG	LG	KCl	FSR #	
F.Loss	mm				Hardness	mg/l	mg/l	mg/l	mg/l	uncorr	%	corr.	%	kg/m3	%	%	kg/m3		
																	0.00	1	
																	0.00	2	
																	0.00	3	
																	0.00	4	Displacement Mud
					720	680		225	98,000								0.00	5	Cleaning Plts
2.0	0.5	8.5			1080												0.43	6	Concentrated KCL Mud not sheared.
7.2	0.5	8.4						118,848	107,000								227.00	7	Concentrated KCL/PAC mud.
3.8	1	9.4	0.1	0.5	520	480	40	48,167	40,500	5.5	94.5	3.2	0.01				92.00	8	RIH drill cement & shoe displace to KCL/PAC mud add drill
3.9	1	9.2	0.1	0.4	500	460	40	47,120	40,000	6.0	94	3.8	0.01	5			90.00	8	water & polymers to obtain 1.07 sg mud with spec properties.
4.6	1	8.5	0.1	0.4	920	920	0	51,832	41,250	8.0	92	5.8	0.10	28.5			99.00	9	Drill ahead Add KCL brine and dry product to
4.4	1	8.5	0.1	0.4	980	980	0	45,026	40,500	9.0	91	6.8	0.25	32			86.00	9	increase concentration. Dump shaker box on
3.8	1	8.4	0.1	0.4	880	840	40	46,073	44,500	9.0	91	6.6	0.30	56			88.00	9	connections & sand trap as required.
4.0	1	8.4	0.1	0.4	880	840	40	100,000	48,000	9.0	91.00	5.1	0.40	50	0.7	4.4	191.00	10	Maintain KCL content w/ brine & dry product directly to active.
3.8	1	8.1	0.1	0.4	840	800	40	102,000	50,000	9.0	91.00	5.0	0.50	53	0.7	4.3	194.82	10	Dump shaker box on connections & sand trap as required.
3.8	1	8.2	0.1	0.3	800	520	280	111,000	54,000	9.0	91.00	4.6	0.60	50	1.4	3.3	212.01	10	CMC EHV mixed to active by mistake.
4.0	1	8.4	0.1			500		60,192	56,000	11.0	89.00	6.5	0.50	52	1.9	4.7	114.97	11	Maintain properties with whole mud dilution.
4.2	1	8.4	0.1			800		62,304	65,000	11.0	89.00	5.8	0.50	55	3.2	2.6	119.00	12	Make wiper trip circulate bottoms up, large amount of
4.4	1	8.4	0.1			1200		64,416	71,000	11.0	89.00	5.2	0.50	58	3.3	2.0	123.03	12	cuttings Circulate hole clean POOH to log.
4.4	1	8.4	0.1			1200		64,416	71,000	11.0	89.00	5.2	0.50	58	2.6	2.6	123.03	13	Finish logging. Rig up and run casing. Centrifuge active
4.4	1	8.4	0.1			1200		64,416	71,000	11.0	89.00	5.2	0.50	58	0.8	4.5	123.03	13	volume to lower solids content for next section.
4.4	1	8.4	0.1	0.4	1200	1000		64,416	71,000	11.0	89.00	5.2	0.50	58	3.3	2.0	123.03	14	Run & cement casing without problem
4.4	1	8.4	0.1	0.4	1200	1000		64,416	71,000	11.0	89.00	5.2	0.50	58	3.3	2.0	123.03	14	
2.0	0.50	8.10	0.1	0.30	500.00	460	0	225	40,000	5.5	89.00	3.2	0.01	5.00	0.7	2.0	0.43		
7.2	1.00	9.40	0.1	0.50	1200.00	1200	280	118848	107,000	11.0	94.50	6.8	0.60	58.00	3.3	4.7	227.00		
4.2	0.94	8.49	0.1	0.40	876.67	839	60	65580	61,162	9.4	90.57	5.3	0.38	47.96	2.1	3.2	125.26		
2-4		8-9						62000						<60			120.00		
4.1	1	8.9	0.2	0.5	920	800	120	62,832	70,000	11.0	89.00	5.3	0.50	58	2.0	3.3	120.01	15	Pick up BHA RIH drill out cement & shoe. Take LOT to 1.58
4.1	1	9.3	0.1	0.5	1240	1000	240	62,832	70,000	11.0	89.00	5.3	0.50	58	2.0	3.3	120.01	15	sg. Drill to 1947 m. Dump cement contaminated mud treat w/
4.1	1	9.3	0.1	0.4	1000	800	200	62,832	69,000	11.0	89.00	5.4	0.50	58	2.0	3.4	120.01	15	bicarb & citric acid. Cuttings soft to firm..
4.0	1	8.3	0.2	0.5	720	600	120	62,304	72,000	11.0	89.00	5.2	0.50	50	2.0	3.1	119.00	16	Drill to 2008 POOH for core barrell. Add bicarb for cement
4.0	1	8.9	0.0	0.5	600	480	120	63,360	79,000	11.0	89.00	4.5	0.25	54	2.1	2.4	121.02	16	dump shaker box and sand trap on connections.
4.0	1	8.3	0.0	0.5	600	480	120	63,360	79,000	11.0	89	4.5	0.25	55	2.1	2.4	121.02	17	RIH cut core #1 jammed after 7 m recover same cut core #2
4.0	1	8.3	0.0	0.5	600	480	120	62,304	74,000	11.0	89	5.0	0.25	54	2.0	2.9	119.00	17	POOH. Add premix for volume.
4.0	1	8.3	0.0	0.5	600	480	120	62,304	74,000	11.0	89	5.0	0.25	55	2.0	2.9	119.00	18	POOH w/ core #2 made up 8 1/2" bit & BHA RIH Drill to 2113
4.0	1	8.2	0.0	0.5	600	480	120	61,776	71,000	11.0	89	5.2	0.25	58	2.0	3.2	117.99	18	raise mud weight due to connection gas POOH for core barrell.
3.9	1	8.2	0.0	0.6	560	480	80	59,136	68,000	12.0	88	6.6	0.40	55	5.3	1.2	112.95	18	Increase dilution rate to maintain properties.

Daily Mud Properties - Minimum, Maximum, Average

Anchor Drilling Fluids

Operator: Statoil

Well: 6204/11-1

Rig: Deep Sea Bergen

Date	FSR #	System	Well Number	Section	Time	Depth MD	Depth TVD	Degrees C >		Density kg/m3	Flow Properties >																Gels 10 min	Gels 10 sec	HTHP F.Loss	Cake mm
								Last Survey	Temp In		Temp Out	Funnel Vis/qt	600 rpm	300 rpm	200 rpm	100 rpm	60 rpm	30 rpm	6 rpm	3 rpm	"n" 600/300	"K" 600/300	"n" 60/6	"K" 60/6	PV cP	YP Pa				
29-10-94	19	KCL/POL	6204/11-1	8 1/2	6:00	2,150	2150		26	1.27	68	83	55	44	29	22	14	6	4	0.59	6.94	0.56	8.25	28	13.5	2.0	3.0			
29-10-94	19	KCL/POL	6204/11-1	8 1/2	22:00	2,156	2156			1.27	70	84	56	45	29	22	14	6	4	0.58	7.46	0.56	8.25	28	14	2.0	3.0			
30-10-94	20	KCL/POL	6204/11-1	8 1/2	7:00	2,156	2156		23	1.27	70	84	56	45	29	22	14	6	4	0.58	7.46	0.56	8.25	28	14	2.0	3.0			
30-10-94	20	KCL/POL	6204/11-1	8 1/2	15:00	2,172	2172		23	1.27	73	79	53	42	28	21	14	6	4	0.58	7.48	0.54	8.65	26	13.5	2.0	3.0			
30-10-94	20	KCL/POL	6204/11-1	8 1/2	22:00	2,194	2194			1.27	72	81	54	43	28	21	14	6	4	0.58	7.20	0.54	8.65	27	13.5	2.0	3.0			
31-10-94	21	KCL/POL	6204/11-1	8 1/2	10:00	2,275	2275		30	1.26	73	82	54	43	28	21	14	6	4	0.60	6.45	0.54	8.65	28	13	2.0	3.0			
31-10-94	21	KCL/POL	6204/11-1	8 1/2	15:30	2,340	2340		31	1.26	73	84	56	44	29	21	14	6	4	0.58	7.46	0.54	8.65	28	14	2.0	3.0			
31-10-94	21	KCL/POL	6204/11-1	8 1/2	22:00	2,471	2471		36	1.26	72	84	56	44	29	22	14	6	4	0.58	7.46	0.56	8.25	28	14	2.0	3.0			
1-11-94	22	KCL/POL	6204/11-1	8 1/2	5:30	2,710	2710		35	1.26	73	91	60	46	30	22	14	6	4.5	0.60	7.24	0.56	8.25	31	14.5	2.5	3.0			
1-11-94	22	KCL/POL	6204/11-1	8 1/2	14:00	2,777	2777		36	1.26	72	87	58	44	29	21	14	6	4	0.58	7.73	0.54	8.65	29	14.5	2.0	3.0			
1-11-94	22	KCL/POL	6204/11-1	8 1/2	22:00	2,778	2778			1.26	74	85	56	43	29	22	14	6	4	0.60	6.71	0.56	8.25	29	13.5	2.0	3.0			
2-11-94	23	KCL/POL	6204/11-1	8 1/2	5:30	2,778	2778			1.26	74	85	56	43	29	22	14	6	4	0.60	6.71	0.56	8.25	29	13.5	2.0	3.0			
2-11-94	23	KCL/POL	6204/11-1	8 1/2	14:00	2,794	2794			1.26	74	81	54	41	27	21	13	6	4	0.58	7.20	0.54	8.65	27	13.5	2.0	3.0			
3-11-94	23	KCL/POL	6204/11-1	8 1/2	22:30	2,794	2794		26	1.26	76	85	56	44	28	22	14	6	4	0.35	25.68	0.54	5.77	12	16	2.0	3.0			
3-11-94	24	KCL/POL	6204/11-1	8 1/2	6:00	2,818	2818		26	1.26	76	85	56	44	28	22	14	6	4	0.60	6.71	0.56	8.25	29	13.5	2.0	3.0			
3-11-94	24	KCL/POL	6204/11-1	8 1/2	17:00	2818	2818		22	1.25	90	80	52	40	26	19	12	6	4	0.62	5.52	0.50	9.57	28	12	2.0	3.0			
3-11-94	24	KCL/POL	6204/11-1	8 1/2	22:00	2846	2846		27	1.26	84	81	53	41	27	20	13	6	4	0.61	5.97	0.52	9.09	28	12.5	2.0	3.0			
4-11-94	25	KCL/POL	6204/11-1	8 1/2	6:00	2846	2846			1.26	80	81	53	41	27	21	14	6	4	0.61	5.97	0.54	8.65	28	12.5	2.0	3.0			
4-11-94	25	KCL/POL	6204/11-1	8 1/2	14:00	2849	2849		34	1.26	73	82	53	41	27	20	13	6	4	0.63	5.35	0.52	9.09	29	12	2.0	3.0			
4-11-94	25	KCL/POL	6204/11-1	8 1/2	22:00	2966	2966		35	1.26	71	81	52	40	27	20	13	6	4	0.64	4.94	0.52	9.09	29	11.5	2.0	3.0			
5-11-94	26	KCL/POL	6204/11-1	8 1/2	5:00	2966	2966			1.26	70	79	51	40	26	20	13	6	4	0.63	5.09	0.52	9.09	28	11.5	2.0	3.0			
5-11-94	26	KCL/POL	6204/11-1	8 1/2	22:00	2966	2966		25	1.27	74	82	53	41	27	20	13	6	4	0.63	5.35	0.52	9.09	29	12	2.0	3.0			
6-11-94	27	KCL/POL	6204/11-1	8 1/2	9:00	2966	2966			1.26	68	77	49	39	25	19	12	6	4	0.65	4.30	0.50	9.57	28	10.5	2.0	2.5			
7-11-94	28	KCL/POL	6204/11-1	8 1/2	22:00	2966	2966		25	1.26	68	77	49	39	25	19	12	6	4	0.65	4.30	0.50	9.57	28	10.5	2.0	2.5			
8-11-94	29	KCL/POL	6204/11-1	8 1/2	22:00	2966	2966		25	1.26	68	77	49	39	25	19	12	6	4	0.65	4.30	0.50	9.57	28	10.5	2.0	2.5			
9-11-94	30	KCL/POL	6204/11-1	8 1/2	14:00	2966	2966			1.24	58	52	34	26	16	12	8	3	2	0.61	3.81	0.60	3.78	18	8	1.5	2.0			
9-11-94	30	KCL/POL	6204/11-1	8 1/2	22:00	2966	2966		25	1.24	58	52	34	26	16	12	8	3	2	0.61	3.81	0.60	3.78	18	8	1.5	2.0			
10-11-94	31	KCL/POL	6204/11-1	8 1/2	14:30	2966	2966			1.26	84	72	46	35	23	17	11	4	3	0.65	4.18	0.63	4.74	26	10	2.0	6.0			
10-11-94	31	KCL/POL	6204/11-1	8 1/2	22:00	2966	2966			1.26	84	75	48	36	25	18	12	4	3	0.64	4.43	0.65	4.48	27	10.5	2.0	5.0			
11-11-94	32	KCL/POL	6204/11-1	8 1/2	14:30	2966	2966			1.26	84	72	46	35	23	17	11	4	3	0.65	4.18	0.63	4.74	26	10	2.0	6.0			
11-11-94	32	KCL/POL	6204/11-1	8 1/2	22:00	2966	2966			1.26	85	74	47	35	24	16	11	4	3	0.65	4.05	0.60	5.04	27	10	2.0	4.0			
Minimum				12 1/4					22	1.20	58	52	34	26	16	12	8	3	2	0.35	3.81	0.46	3.78	12.00	8.00	1.5	2.0	18.60		
Maximum				&					36	1.27	90	91	60	49	33	25	17	8	6	0.65	25.68	0.65	14.06	31.00	16.00	3.0	6.0	18.80		
Average				8 1/2					30	1.25	73	77	51	40	26	20	13	6	4	0.59	7.11	0.54	8.36	25.71	12.57	2.0	3.6	18.67		
Spec										1.2/1.3													Min	25/28	11.0	31.0		Min		

Daily Mud Properties - Minimum, Maximum, Average

Anchor Drilling Fluids

Operator: Statoil

Well: 6204/11-1

Rig: Deep Sea Bergen

< >		Chemical Properties								< >										Solids Properties		FSR #	
API	Cake	pH	PI	MI	Total	Ca ++	Mg ++	K+	Cl-	Solids	Water	Solids	Sand	MBT	HG	LG	KCl	FSR #					
F.Loss	mm				Hardness	mg/l	mg/l	mg/l	mg/l	uncorr	%	corr.	%	kg/m3	%	%	kg/m3						
3.8	1	8.1	0.0	0.5	560	500	60	60,720	69,000	12.0	88	6.5	0.00	52	5.4	1.1	115.98	19	RIH core to 2157 POOH rig up & run logs. add premix to control properties.				
3.6	1	8.2	0.0	0.5	580	520	60	60,720	68,000	12.0	88	6.6	0.30	48	5.3	1.2	115.98	19					
3.6	1	8.1	0.0	0.5	580	520	60	60,720	68,000	12.0	88	6.6	0.30	46	5.3	1.2	115.98	20	Finish running logs RIH with 8 1/2" bit & drill to 2194 string				
3.6	1	8.0	0.0	0.5	640	520	120	60,720	71,000	12.0	88	6.3	0.30	48	5.4	0.9	115.98	20	backed off during power failure latch on to fish POOH to inspect string. Add premix to maintain properties.				
3.7	1	8.1	0.0	0.5	600	520	80	60,720	70,000	12.0	88	6.4	0.30	48	5.4	1.0	115.98	20					
3.8	1	8.1	0.0	0.5	600	520	80	61,248	72,000	12.0	88	6.2	0.30	45	4.8	1.5	116.98	21	Change bit RIH drill 8 1/2" hole add premix to maintain properties.				
3.8	1	8.0	0.0	0.5	600	500	100	61,776	74,000	12.0	88	6.0	0.30	45	4.8	1.3	117.99	21					
3.6	1	8.0	0.0	0.5	580	520	60	63,360	71,000	12.4	87.6	6.3	0.20	43	4.8	1.6	121.02	21					
3.6	1	8.1	0.0	0.6	400	320	80	63,360	73,000	12.5	87.5	6.1	0.20	43	4.8	1.4	121.02	22	Drill to 2778 meters circulate POOH for core barrel. Add chemicals & dilution as required to maintain properties.				
3.6	1	8.1	0.0	0.6	400	320	80	63,360	73,000	12.5	87.5	6.7	0.20	42	4.3	2.4	121.02	22					
3.4	1	8.2	0.0	0.5	400	360	40	63,360	71,000	12.5	87.5	6.8	0.30	40	4.3	2.6	121.02	22					
3.4	1	8.2	0.0	0.5	400	360	40	63,360	73,000	12.5	87.5	6.7	0.30	40	4.3	2.4	121.02	23	Cut core #4 to 2794 m trip for core barrel cut core # 5				
3.4	1	8.2	0.0	0.5	400	360	40	66,000	73,000	12.5	87.5	6.7	0.30	40	4.3	2.4	126.06	23	Adding premix to active to maintain properties.				
3.5	1	8.2	0.0	0.6	400	360	40	66,000	74,000	13.0	87	7.1	0.20	38	3.8	3.3	126.06	23					
3.5	1	8.2	0.0	0.6	400	360	40	66,000	74,000	13.0	87	7.1	0.20	38	3.8	3.3	126.06	24	POOH w/ core #5 RIH cut core #6 POOH. Add dilution to active to maintain properties.				
3.5	1	8.3	0.0	0.6	400	360	40	66,000	75,000	13.0	87	7.0	0.20	38	3.2	3.9	126.06	24					
3.4	1	8.3	0.0	0.6	400	360	40	66,000	75,000	13.0	87	7.0	0.30	38	3.8	3.2	126.06	24					
3.5	1	8.3	0.0	0.6	380	340	40	66000	75,000	13.0	87	7.0	0.30	36	3.8	3.2	126.06	25	Drill to TD 2966 m. Back ream to shoe POOH to log.				
3.4	1	8.3	0.0	0.6	360	320	40	66000	74,000	13.0	87	7.1	0.40	36	3.8	3.3	126.06	25	Maintain properties with premix.				
3.5	1	8.2	0.0	0.6	380	340	40	66000	75,000	13.0	87	7.0	0.40	38	3.8	3.2	126.06	25					
3.4	1	8.3	0.0	0.6	380	340	40	66000	72,000	13.0	87	7.3	0.50	38	3.8	3.5	126.06	26	Logs would not pass 2008 m. POOH w/ logs RIH w/ bit ream 12 1/4" 1/2" hole. Control mud weight with water.				
3.5	1	8.3	0.0	0.6	380	340	40	66000	72,000	13.0	87	7.3	0.50	38	4.4	2.9	126.06	26					
3.4	1	8.2	0.0	0.6	380	340	40	63,360	71,000	13.0	87	7.4	0.50	36	3.7	3.6	121.02	27	Run wire line logs.				
3.4	1	8.2	0.0	0.6	380	340	40	63,360	71,000	13.0	87	7.4	0.50	36	3.7	3.6	121.02	28	Prepare to cut weight w/ brine cancelled later cancelled				
3.4	1	8.2	0.0	0.6	380	340	40	63,360	71,000	13.0	87	7.4	0.50	36	3.7	3.6	121.02	29					
		8.3	0.0	0.6	380	320	60	58,080	62,000	12.0	88	7.1	0.30	35	3.4	3.7	110.93	30	Finished logging prepare to P & A. Transfer 30 m3 of brine back to storage.				
3.4	1	8.3	0.0	0.6	380	320	60	58,080	62,000	12.0	88	7.1	0.30		3.4	3.7	110.93	30					
3.8	1	11.9	0.2	0.5	400	360	40	58,080	62,000	12.0	88	7.1	0.50	35	4.7	2.4	110.93	31	Continue P & A. Mix high vis pills for top of plugs.				
3.8	1	11.9	0.2	0.5	420	400	20	58,080	62,000	12.0	88	7.1	0.50	35	4.7	2.4	110.93	31	Continue P & A. Treat mud w/ biocide bicard & citric acid prior to being transferred to boat.				
3.8	1	11.9	0.2	0.5	400	360	40	58,080	62,000	12.0	88	7.1	0.50	35	4.7	2.4	110.93	32					
3.8	1	11.4	0.2	0.5	400	360	40	58,080	62,000	12.0	88	7.1	0.50	35	4.7	2.4	110.93	32					
3.4	1	8.00	0.0	0.40	360	320	20	58,080	62,000	11.0	87.00		0.00	35	0.7	0.9	110.93						
4.1	1	11.90	0.2	0.60	1,240	1,000	240	66,000	79,000	13.0	89.00		0.50	58	5.4	4.7	126.06						
3.7	1	8.64	0.0	0.54	517	443	73	62,562	70,805	12.1	87.86		0.34	44	3.3	2.8	119.49						
<5					<1000			50000						Min		<7							

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SECTOR FOR GEOTECHNOLOGY

Geochemistry Department

Grading

Title A GEOCHEMICAL EVALUATION OF WELL 6204/11-1		
Requested by Ivar Gran, RUN VEST	Project	
Date 29/5/95	No. of pages 69 (exc. appendices)	No. of enclosures 7


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Abstract
See Summary, pp i-ii, and Figure S1.

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3A-95-878-1

07 JUNI 1995

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TABLE 1. LITHOLOGICAL DESCRIPTIONS OF SAMPLES ANALYSED FROM WELL 6204/11-1

Depth m RKB	Type	S.no.	Lithology
2013,80	Core-chip	S8717	clst, drk gry - gry, hd, sd "linser"
2023,05	Core-chip	S8718A	lst, gry, hd - v hd
2023,05	Core-chip	S8718B	sst, slty, cmt, gry, hd
2113,00	SWC	S8706	clst, olv blk, slty, sl sdy, mod hd, glauc, mic, v calc
2134,39	Core-chip	S8719	clst, drk gry, hd, micromic
2145,00	Core-chip	S8720	clst, drk gry, hd, micromic
2151,79	Core-chip	S8721	clst, drk gry, hd, micromic
2157,60	Core-chip	S8722	clst, drk gry, hd, micromic
2199,00	Cuttings	S8723	40% lst, wh - lt gry, xln - microxln, loc suc cln cal, mod hd, abd dk gn glauc spks, grad sst 40% clst, dk gry - grysh blk, blk - subblk, frm - mid hd, calc, v abd micromic, glauc spks 20% sst, clr - transl qtz, dom m - crs, wl srtd sbrndd, fri - lse, v abd calc mtrx/cmt
2284,00	SWC	S8707	clst, dk gry - brn blk, slty, mod hd, mic, v calc
2413,50	SWC	S8708	clst, dk gn blk - olv blk, frm, fis, sl slty, less mic, sl - non calc, microlam
2517,00	SWC	S8709	clst/mrl, dk olv gry - olv blk, frm, sl slt/suc lst, sl micromic, v calc - calc, grad mrl
2573,50	SWC	S8710	clst/mrl, dk olv gry - olv blk, frm, sl slt/suc lst/dol, micromic, v calc - calc, grad mrl
2605,00	SWC	S8711	sh, dk olv brn - olv blk, frm - mod hd, fis, slty, abd micromic lam, mud suc calc
2619,00	Cuttings	S8724	90% sh, brn blk - brn gry, frm, v micromic, micropyr, microcarb, mod calc, slty, i.p. sdy 10% lst/dol, wh - off wh, arg, grad clst (marl), frm - mod hd tr pyr, sst
2631,00	Cuttings	S8725	100% sh, brn blk - brn gry, frm, v micromic, micropyr, microcarb, mod calc, slty, i.p. sdy tr pyr, lst, sst/sd
2642,00	SWC	S8712	sh, dk olv brn - olv blk, frm, fis - brit, v suc dol, abd micromic lam, sl calc
2656,00	SWC	S8713	sh, dk olv brn - olv blk, frm, fis - brit, slty/suc dol, abd biot micromic lam, adb dissem & nod pyr

TABLE 1. LITHOLOGICAL DESCRIPTIONS OF SAMPLES ANALYSED FROM WELL 6204/11-1

Age	Depth m RKB	Type	S.no.	Lithology
	2670,00	Cuttings	S8726	90% sltst, brn blk - brn gry, frm, v micromic, c micropyr, microcarb, mod calc, sdy 10% lst, pred brn, arg, mic, acc xln, frm - mod hd tr pyr, coal
	2680,00	SWC	S8714	sh, dk olv gry - olv blk, frm, fis - brit, abd biot micromic lam, adb dissem & nod pyr
	2706,00	Cuttings	S8727	100% sh, brn blk - brn gry, frm, v micromic, v micropyr, microcarb, mod calc, v arg, slty, sdy tr lst, pyr
	2731,00	SWC	S8715	sh, dk olv brn - olv blk, frm - mod hd, fis - brit, sl slty, v abd micromic lam, dissem pyr
	2742,00	SWC	S8716	sh, dk olv brn - olv blk, frm - mod hd, fis - brit, sl slty, v abd micromic lam, dissem pyr
	2757,00	Cuttings	S8728	70% sh/sltst, brn blk - brn gry, frm, v slty grad sltst, v sdy, mod calc 20% qtz, lse, v f - f, wl srt, tr m - crs, tr sst, v f - f, calc cmt 10% lst, brn gry, wh - off wh, mic, occ xln, frm - mod hd, arg i.p., clr calc tr pyr
	2766,00	Cuttings	S8729	45% sh/sltst, brn blk - brn gry, frm, v slty grad sltst, v sdy, mod calc 35% qtz, lse, v f - f, wl srt, tr m - crs, tr sst, v f - f, calc cmt 20% lst, brn gry, wh - off wh, mic, occ xln, frm - mod hd, arg i.p., clr calc tr pyr
	2871,00	Cuttings	S8703	65% sd/sst, clr qtz, med f - f, v arg mtrx, calc mtrx/cmt 30% clst, lt gry - brn gry, mod hd - sft, sl calc, slty - v slty, i.p. coal spks and lam 5% lst, lt gry, mod hd - sft, slty tr mic
	2877,00	Cuttings	S8704	80% sd/sst, clr qtz, med f - f, v arg mtrx, calc mtrx/cmt 20% clst, lt gry - brn gry, mod hd - sft, sl calc, slty - v slty, i.p. coal spks and lam tr lst, mic, kao
	2880,00	Cuttings	S8705	80% sd/sst, clr qtz, med f - f, v arg mtrx, calc mtrx/cmt 20% clst, lt gry, mod hd - sft, sl - non calc, slty - v slty tr mic

TABLE 1. LITHOLOGICAL DESCRIPTIONS OF SAMPLES ANALYSED FROM WELL 6204/11-1

Age	Depth m RKB	Type	S.no.	Lithology
	2008,00	Plug	S8675	sst, gry, f - med f, hd, glauc, sl mic
	2015,75	Plug	S8676	sst, gry - dk gry, hd, v glauc, sl mic, sl clst lam
	2017,50	Plug	S8677	sst, gry - dk gry, hd, v glauc, sl mic, sl clst lam
	2017,59	Core-chip (Seal peel)	S8730	clst, dk gry - gry, mod hd - hd, mic, occ sst
	2017,70	Core-chip (Seal peel)	S8735	sst, gry brn, v f -f, mod hd - hd, glauc, mic
	2070,00	Cuttings	S8699	80% sd, lse qtz, micropyr cotg on qtz gr, trnsl, f - crs, pred crs, sbrndd- rddd, i.p. kao on surf 10% lst, offwh, yel gry, lt olv gry, sft - hd, mic, xln, microxln 10% clst, m lt gry - dk gry, occ brn gry, glauc, sft - frm, blk, calc, micropyr i.p. tr glauc, pyr
	2073,00	Cuttings	S8700	70% sd, lse qtz, micropyr cotg on qtz gr, trnsl, f - v crs, pred crs, sbrndd- rddd, i.p. kao on surf 20% lst, offwh, yel gry, lt olv gry, sft - hd, mic, xln, microxln 10% clst, m lt gry - dk gry, occ brn gry, glauc, sft - frm, blk, calc, micropyr i.p. tr glauc, pyr
	2079,00	Cuttings	S8701	85% sd, lse qtz, micropyr cotg on qtz gr, trnsl, f - v crs, pred crs, sbrndd- rddd, i.p. kao on surf 15% lst, offwh, yel gry, lt olv gry, sft - hd, mic, xln, microxln tr glauc, pyr
	2094,00	Cuttings	S8702	70% sd, lse qtz, micropyr cotg on qtz gr, trnsl, f - v crs, pred crs, sbrndd- rddd, i.p. kao on surf 30% lst, offwh, yel gry, lt olv gry, sft - hd, mic, xln, microxln tr glauc, pyr
	2104,00	SWC	S8695	sst, olv gry, v arg grad to sdy clst, v f, frm - mod hd, glauc, mic, arg mtrx, arg lam, v calc, pr vis por
	2125,00	SWC	S8696	sst, olv gry, v arg, v f, frm - mod hd, glauc, mic, arg mtrx, arg lam, v calc, pr vis por
	2148,48	Plug	S8678	sst, dk gry, f - med f, hd, glauc, clst frag, sl mic
	2150,25	Plug	S8679	sst, dk gry gn, f - med f, hd - mod hd, clst frag, sl mic

TABLE 1. LITHOLOGICAL DESCRIPTIONS OF SAMPLES ANALYSED FROM WELL 6204/11-1

Age	Depth m RKB	Type	S.no.	Lithology
	2154,25	Plug	S8680	sst, dk gry, f - med f, hd - mod hd, clst frag, sl mic
	2779,00	Plug	S8681	sst, lt gry - gry, med f, mod hd, mic
	2784,00	Plug	S8682	sst, lt gry - gry, med f, mod hd, mic
	2789,00	Core-chip (Seal peel)	S8731	sst, gry brn, f - crs, mod hd - lse, mic
	2790,75	Plug	S8683	sst, lt gry - gry, med f, mod hd, mic
	2797,25	Plug	S8684	sst, lt gry - gry, med f, mod hd, mic
	2804,50	Plug	S8685	sst, lt gry - gry, med f, mod hd, mic, i.p. drk gry, crs, v mic.
	2808,60	Core-chip	S8698	sst, gry - gry brn, med f - crs, mudst lam
	2814,50	Plug	S8686	sst, gry brn, med f - f, mod hd, mic
	2815,82	Core-chip (Seal peel)	S8732	sst, gry - gry brn, med f, mod hd, mudst lam, mic
	2816,50	Plug	S8687	sst, gry brn, med f - f, mod hd, mic, i.p. gry
	2819,75	Plug	S8688	sst, gry brn, med f, mod hd, mic, sl lam, i.p. gry
	2821,31	Core-chip (Seal peel)	S8733	sst, gry - gry brn, med f, mod hd - lse, mic
	2821,50	Plug	S8689	sst, dk gry brn, med f, mod hd, mic
	2822,75	Plug	S8690	sst, dk gry brn, med f, mod hd, mic
	2823,30	Core-chip (Seal peel)	S8734	sst, dk gry - gry brn, med f - crs, mod hd - lse, v mudst lam, v mic
	2823,75	Plug	S8691	sst, dk gry - dk gry brn, mrd f, mod hd, mic, clst frag
	2828,25	Plug	S8692	sst, dk gry - gry, f, mod hd, v mic, clst frag
	2833,25	Plug	S8693	sst, dk gry - gry, f, mod hd, mic, clst frag

TABLE 1. LITHOLOGICAL DESCRIPTIONS OF SAMPLES ANALYSED FROM WELL 6204/11-1

Age	Depth m RKB	Type	S.no.	Lithology
	2841,25	Plug	S8694	sst, dk gry - gry, f, mod hd - hd, mic, clst frag
	2861,50	SWC	S8697	sst, lt brn, wh mtrx, dom clr - trnsl qtz, dom f, mod srt, frm - mod hd, abd arg, mod calc cmt, musc mic

TABLE 2. TOC AND THA DATA FOR WELL 6204/11-1

Codes in figs.	Depth m RKB	Sample type	Sample no.	Comments	S1		S2	TOC Wt %	HI mg HC/g TOC	PP mg HC/g rock	PI	Tmax oC	Lithology
					<	>							
C	2013.28	CORE-CHIP	S8717		0.12	0.50	0.8	63	0.6	0.19	424	clst	
C	2023.05	CORE-CHIP	S8718A		0.20	0.02	0.5	4	0.2	0.91	ND	lst	
C	2023.05	CORE-CHIP	S8718B		4.0	0.17	0.1	170	4.2	0.96	ND	ssst	
C	2113	SWC	S8706		0.57	0.45	1.1	41	1.0	0.56	416	clst	
C1	2134.39	CORE-CHIP	S8719		1.2	0.68	1.6	43	1.8	0.63	424	clst	
C	2145.00	CORE-CHIP	S8720		0.28	0.86	1.4	61	1.1	0.25	424	clst	
C	2151.79	CORE-CHIP	S8721		0.22	0.78	1.2	65	1.0	0.22	424	clst	
C2	2157.60	CORE-CHIP	S8722		0.26	1.2	1.7	72	1.5	0.17	423	clst	
C	2199	CUTTINGS	S8723		0.48	0.66	1.0	66	1.1	0.42	423	lst/clgs	
C	2284	SWC	S8707		0.30	0.74	1.5	49	1.0	0.29	422	clst	
C	2413.5	SWC	S8708		0.15	0.62	1.3	48	0.8	0.19	ND	clst	
C	2517	SWC	S8709		0.16	0.51	1.4	36	0.7	0.24	ND	clst/mrl	
C	2573.5	SWC	S8710		0.10	0.35	1.3	27	0.5	0.22	ND	clst/mrl	
U	2605	SWC	S8711		4.3	3.7	2.7	138	8.0	0.54	424	sh	
U1s	2619	CUTTINGS	S8724		5.0	10.1	4.8	210	15.1	0.33	426	sh	
U	2631	CUTTINGS	S8725		4.4	7.9	4.4	179	12.3	0.36	425	sh	
U2s	2642	SWC	S8712		4.8	5.5	3.5	158	10.3	0.46	425	sh	
U	2656	SWC	S8713		3.3	5.1	4.5	114	8.5	0.39	427	sh	
U3s	2670	CUTTINGS	S8726		2.8	9.1	5.1	178	11.9	0.24	430	slst	
U4	2680	SWC	S8714		1.3	13.7	6.0	228	15.0	0.09	422	sh	
U	2706	CUTTINGS	S8727		0.96	10.7	5.1	210	11.7	0.08	426	sh	
U5	2731	SWC	S8715		1.0	6.9	4.2	164	7.9	0.13	424	sh	
U	2742	SWC	S8716		2.0	4.4	4.6	96	6.4	0.31	431	sh	
U6s	2757	CUTTINGS	S8728		1.8	11.0	5.2	212	12.9	0.14	427	sh/slst	
U	2766	CUTTINGS	S8729		1.3	9.7	5.2	187	11.0	0.11	430	sh/slst	
M1	2871	CUTTINGS	S8703		2.5	46.7	7.5	623	49.2	0.05	426	sd	
M	2877	CUTTINGS	S8704		0.50	5.9	1.6	371	6.4	0.08	424	sd	
M	2880	CUTTINGS	S8705		0.30	3.2	1.2	268	3.5	0.09	428	sd	
CR*	2002.60	SWC	S8903		1.9	0.02			2.0	0.99	ND	ssst**	
CR	2008.00	PLUG	S8675		0.04	0.05			0.1	0.44		ssst	
CR1	2015.75	PLUG	S8676		0.31	0.02			0.3	0.94		ssst	
CR*	2016.00	CUTTINGS	S8897A		1.1	3.9			5.0	0.22	422	ssst/clyst**	
CR	2016.00	CUTTINGS	S8897B		0.34	0.83			1.2	0.29	422	ssst/clyst**	
CR	2017.50	PLUG	S8677		3.1	0.31			3.5	0.91		ssst	
CR	2017.59	CORE-CHIP	S8730	Seal peel	0.22	0.74	1.1	67	1.0	0.23	424	clst	
CR2	2017.70	CORE-CHIP	S8735	Seal peel	4.0	0.68			4.7	0.85		ssst	
CR	2034.00	CUTTINGS	S8898A		0.21	0.27			0.48	0.44	412	ssst/clyst**	
CR	2034.00	CUTTINGS	S8898B		0.22	0.26			0.48	0.46	412	ssst/clyst**	
CR*	2037.00	CUTTINGS	S8899A		0.41	0.29			0.70	0.59	426	ssst/clyst**	
CR	2037.00	CUTTINGS	S8899B		0.25	0.23			0.48	0.52	411	ssst/clyst**	
CR	2040.00	CUTTINGS	S8900A		0.22	0.28			0.50	0.44	427	ssst/clyst**	
CR	2040.00	CUTTINGS	S8900B		0.32	0.18			0.50	0.64	417	ssst/clyst**	
CR	2049.00	CUTTINGS	S8901A		0.15	0.48			0.63	0.24	423	ssst/clyst**	
CR	2049.00	CUTTINGS	S8901B		0.18	0.09			0.27	0.67	ND	ssst/clyst**	
CR	2055.00	CUTTINGS	S8902A		0.23	0.30			0.53	0.43	417	ssst/clyst**	
CR	2055.00	CUTTINGS	S8902B		0.05	0.02			0.07	0.71	ND	ssst/clyst**	
CR	2055.00	SWC	S8904		0.06	0.79			0.85	0.07	543	ssst**	
CR	2063.00	SWC	S8905		0.06	1.4			1.4	0.04	534	ssst**	
CR	2070	CUTTINGS	S8699		0.02	0.00			0.0	1.00		sd	
CR	2073	CUTTINGS	S8700		0.02	0.02			0.0	0.50		sd	
CR	2079	CUTTINGS	S8701		0.02	0.01			0.0	0.67		sd	
CR	2094	CUTTINGS	S8702		0.09	0.06			0.2	0.60		sd	
CR	2104	SWC	S8695		0.84	0.49	0.9	54	1.3	0.63	(421)	ssst	
CR	2125	SWC	S8696		4.5	0.12			4.6	0.97		ssst	
CR3	2148.48	PLUG	S8678		4.1	0.19			4.3	0.96		ssst	
CR4	2150.25	PLUG	S8679		4.3	0.62			4.9	0.87		ssst	
CR	2150.25	PLUG	S8679A		30.5	0.22			30.7	0.99		ssst	
CR5	2154.25	PLUG	S8680		15.8	0.02			15.8	1.00		ssst	
JR1	2779.00	PLUG	S8681		0.82	0.05			0.9	0.94		ssst	
JR	2784.00	PLUG	S8682		0.18	0.13			0.3	0.58		ssst	
JR2	2789.00	CORE-CHIP	S8731	Seal peel	0.88	0.04			0.9	0.96		ssst	
JR	2790.75	PLUG	S8683		3.1	0.06			3.1	0.98		ssst	
JR	2791.75	PLUG	S8886		2.0	0.1			2.1	0.98	400	ssst	
JR	2792.75	PLUG	S8887		2.7	4.2			6.9	0.39	423	ssst	
JR	2793.75	PLUG	S8888		0.43	0.1			0.5	0.88	441	ssst	
JR	2794.75	PLUG	S8889		5.2	1.0			6.2	0.84	413	ssst	
JR	2795.75	PLUG	S8890		5.7	0.1			5.8	0.98	414	ssst	
JR	2796.75	PLUG	S8891		4.7	6.4			11.1	0.43	413	ssst	
JR3	2797.25	PLUG	S8684		3.7	0.38			4.1	0.91		ssst	
JR4	2804.50	PLUG	S8685		7.8	0.70			8.5	0.92		ssst	
JR5	2808.60	CORE-CHIP	S8698		3.2	0.23			3.4	0.93		ssst	
JR6	2814.50	PLUG	S8686		18.6	2.0			20.6	0.90		ssst	
JR7	2815.82	CORE-CHIP	S8732	Seal peel	9.1	1.2			10.3	0.89		ssst	
JR	2816.50	PLUG	S8687		13.8	3.4			17.2	0.80		ssst	
JR8	2819.75	PLUG	S8688		13.2	2.9			16.1	0.82		ssst	
JR9	2821.31	CORE-CHIP	S8733	Seal peel	20.2	5.3			25.5	0.79		ssst	
JR10	2821.50	PLUG	S8689		27.0	6.6			33.5	0.80		ssst	
JR	2822.75	PLUG	S8690		24.8	7.0			31.9	0.78		ssst	
JR	2823.30	CORE-CHIP	S8734	Seal peel	14.4	2.2			16.7	0.87		ssst	
JR11	2823.75	PLUG	S8691		14.2	2.1			16.3	0.87		ssst	
JR	2828.25	PLUG	S8692		0.09	0.12			0.2	0.43		ssst	
JR	2833.25	PLUG	S8693		0.02	0.10			0.1	0.17		ssst	
JR	2841.25	PLUG	S8694		0.04	0.10			0.1	0.29		ssst	
JR	2861.5	SWC	S8697		0.03	0.05			0.1	0.38		ssst	

no. after code letter means sample was also solvent extracted

* = sample also analysed by thermal extraction-GC

** no detailed lithological description in Table 1 for these samples

A after sample no. = unpicked, 1mm particle size

B after sample no. = unpicked, 0.125mm particle size

Standards

BVM	0.46	18.8	19.2	0.02	423
BVM	0.47	18.6	19.1	0.02	419
BVM	0.43	18.4	18.8	0.02	423
BVM	0.46	19.2	19.6	0.02	420
BVM	0.48	19.9	20.4	0.02	420
BVM	0.52	19.9	20.4	0.03	422
BVM	0.46	18.2	18.7	0.02	420
BVM	0.47	20.6	21.1	0.02	419
BVM			4.2		
BVM			4.4		

TABLE 3. NORMALISED COMPONENT GROUP COMPOSITION (wt%) OF EXTRACTS AND FLUIDS (C15+), WELL 6204/11-1

Codes In figs.	Depth m RKB	Sample type	Sample no.	Rock (g)	EOM (mg)	EOM (ppm)	Sat (%)	Aro (%)	Poi (%)	Asph (%)	HC (%)	nonHC (%)
C1	2134.39	CORE-CHIP	S8719	28.38	25.6	902	10	55	24	11	65	35
C2	2157.60	CORE-CHIP	S8722	29.58	23.7	801	8	53	24	15	61	39
U1s	2619.00	CUTTINGS	S8724	18.52	107.3	5794	32	34	19	15	67	33
U2s	2642.00	SWC	S8712	4.41	31.3	7098	29	40	15	17	69	31
U3s	2670.00	CUTTINGS	S8726	15.75	65.9	4184	25	27	23	25	52	48
U4	2680.00	SWC	S8714	3.20	13.1	4094	3	7	31	60	10	90
U5	2731.00	SWC	S8715	3.06	10.0	3268	5	8	31	55	14	86
U6s	2757.00	CUTTINGS	S8728	4.88	23.8	4877	6	22	24	48	28	72
M1	2871.00	CUTTINGS	S8703	25.91	149.0	5751	4	29	28	39	34	66
CR1	2015.75	PLUG	S8676	30.87	66.5	2154	52	31	13	5	83	17
CR2	2017.70	CORE-CHIP	S8735	23.91	155.9	6520	50	35	11	4	84	16
CR3	2148.48	PLUG	S8678	15.57	136.3	8754	52	34	12	2	86	14
CR4	2150.25	PLUG	S8679	12.52	99.8	7971	49	35	13	3	84	16
CR5	2154.25	PLUG	S8680	10.32	117.2	11357	46	41	11	2	87	13
JR1	2779.00	PLUG	S8681	29.09	50.6	1739	49	21	14	16	70	30
JR2	2789.00	CORE-CHIP	S8731	23.34	50.4	2159	56	30	7	8	86	14
JR3	2797.25	PLUG	S8684	21.12	89.8	4252	66	20	11	3	85	15
JR4	2804.50	PLUG	S8685	16.42	78.7	4793	51	27	12	11	77	23
JR5	2808.60	CORE-CHIP	S8698	24.01	113.8	4740	61	23	8	8	83	17
JR6	2814.50	PLUG	S8686	10.84	236.4	21808	68	22	7	3	90	10
JR7	2815.82	CORE-CHIP	S8732	23.25	255.3	10981	64	27	6	3	91	9
JR8	2819.75	PLUG	S8688	12.60	171.1	13579	73	18	7	2	91	9
JR9	2821.31	CORE-CHIP	S8733	14.88	340.2	22863	66	26	5	3	92	8
JR10	2821.50	PLUG	S8689	10.81	391.1	36179	69	23	5	3	92	8
JR11	2823.30	CORE-CHIP	S8734	10.06	189.2	18807	73	18	7	2	91	9
	Fluids					%C15+						
F1	2032.50	FMT 3D	S8737			86	56	30	8	6	85	15
F2	2043.90	RCI 3A	S8738			89	58	31	8	3	89	11

TABLE 4. COMPONENT GROUP COMPOSITION (CONCENTRATIONS) OF EXTRACTED ORGANIC MATTER (C15+), WELL 6204/11-1

Codes in figs.	Depth m RKB	Sample type	Sample no.	TOC (%)	mg/g TOC						HC non HC
					EOM ←-----	Sat	Aro	Pol	Asph	Sat Aro	
C1	2134.39	CORE-CHIP	S8719	1.6	56	6	31	14	6	0.2	1.9
C2	2157.60	CORE-CHIP	S8722	1.7	47	4	25	11	7	0.1	1.6
U1s	2619.00	CUTTINGS	S8724	4.8	121	39	42	23	18	0.9	2.0
U2s	2642.00	SWC	S8712	3.5	203	58	81	30	34	0.7	2.2
U3s	2670.00	CUTTINGS	S8726	5.1	82	20	22	19	21	0.9	1.1
U4	2680.00	SWC	S8714	6.0	68	2	4	21	41	0.5	0.1
U5	2731.00	SWC	S8715	4.2	78	4	6	24	43	0.6	0.2
U6s	2757.00	CUTTINGS	S8728	5.2	94	6	20	23	45	0.3	0.4
M1	2871.00	CUTTINGS	S8703	7.5	77	3	22	21	30	0.2	0.5

TABLE 5. GAS CHROMATOGRAPHIC DATA, WELL 6204/11-1

Codes in figs.	Depth m RKB	Sample type	Sample no.	Comments	(A) Pr n-C17	(B) Ph n-C18	A B	Pr Ph	nC17 nC17+nC27	CPI 1	F 1	F 2	MPI 1
C1	2134.39	CORE-CHIP	S8719	poor trace	0.99	1.6	0.61	0.78	0.52	1.3	0.47	0.24	0.58
C2	2157.60	CORE-CHIP	S8722	whole ext	4.8	0.48	10.0	8.9	1.0	n.d.	n.d.	n.d.	n.d.
U1s	2619.00	CUTTINGS	S8724		1.4	0.73	1.9	2.2	0.60	1.2	0.42	0.20	0.68
U2s	2642.00	SWC	S8712		1.4	0.90	1.6	1.9	0.59	1.1	0.40	0.17	0.67
U3s	2670.00	CUTTINGS	S8726		0.61	0.47	1.3	1.5	0.76	1.1	0.40	0.17	0.69
U4	2680.00	SWC	S8714	whole ext	0.61	0.56	1.1	2.1	1.0	n.d.	n.d.	n.d.	n.d.
U5	2731.00	SWC	S8715	whole ext	0.91	0.37	2.4	5.2	1.0	n.d.	n.d.	n.d.	n.d.
U6s	2757.00	CUTTINGS	S8728		1.4	0.93	1.5	1.6	0.58	1.3	0.46	0.23	0.62
M1	2871.00	CUTTINGS	S8703		0.82	0.39	2.1	2.9	0.60	1.6	0.39	0.20	0.36
CR1	2015.75	PLUG	S8676		1.2	0.74	1.6	1.6	0.48	1.2	0.50	0.27	0.81
CR2	2017.70	CORE-CHIP	S8735		1.7	1.5	1.1	2.2	0.79	1.1	0.49	0.26	0.85
CR3	2148.48	PLUG	S8678		0.88	0.45	2.0	2.1	0.42	1.1	0.49	0.24	0.84
CR4	2150.25	PLUG	S8679		0.89	0.47	1.9	2.0	0.45	1.1	0.46	0.24	0.78
CR5	2154.25	PLUG	S8680		0.87	0.62	1.4	1.7	0.56	1.1	0.45	0.23	0.75
JR1	2779.00	PLUG	S8681		0.41	0.34	1.2	1.0	0.49	1.2	0.48	0.26	0.66
JR2	2789.00	CORE-CHIP	S8731		0.51	0.27	1.9	1.7	0.34	1.1	0.47	0.25	0.73
JR3	2797.25	PLUG	S8684		0.48	0.29	1.7	1.3	0.22	1.1	0.46	0.23	0.71
JR4	2804.50	PLUG	S8685		0.48	0.28	1.7	1.3	0.22	1.1	0.47	0.25	0.69
JR5	2808.60	CORE-CHIP	S8698		0.42	0.24	1.7	1.6	0.26	1.1	0.46	0.25	0.66
JR6	2814.50	PLUG	S8686		0.42	0.22	1.9	1.6	0.22	1.1	0.46	0.24	0.74
JR7	2815.82	CORE-CHIP	S8732		0.40	0.20	2.0	1.8	0.23	1.1	0.47	0.24	0.68
JR8	2819.75	PLUG	S8688		0.40	0.22	1.8	1.6	0.19	1.1	0.51	0.26	0.82
JR9	2821.31	CORE-CHIP	S8733		0.37	0.18	2.0	1.8	0.22	1.1	0.46	0.24	0.70
JR10	2821.50	PLUG	S8689		0.39	0.22	1.8	1.6	0.21	1.1	0.46	0.24	0.72
JR11	2823.30	CORE-CHIP	S8734		0.37	0.21	1.8	1.6	0.22	1.1	0.47	0.24	0.73
	Fluids												
F1	2032.5	FMT 3D	S8737	whole oil	0.65	0.39	1.7	1.6	0.60	1.1	n.d.	n.d.	n.d.
F2	2043.9	RCI 3A	S8738	whole oil	0.73	0.43	1.7	1.6	0.56	1.1	n.d.	n.d.	n.d.
	2043.9	RCI 3A	S8738	sats fr.	0.71	0.37	1.9	1.9	0.58	1.1			

italics = unreliable values

TABLE 6. BIOMARKER PARAMETERS FROM GCMS, WELL 6204/11-1

Depth m RKB	Sample type	Sample no.	Codes in figs.	Comments	20S	bb	22S	Ts/Tm	TtX	30D/H	30ab	%C27	%C28	%C29	%C27 measured on 20aR steranes in	%C28 m/z 217	%C29
2134.39	CORE-CHIP	S8719	C1		0.19	0.32	0.39	0.91	0.75	0.16	0.80	22	39	39	32	27	41
2157.60	CORE-CHIP	S8722	C2	whole ext	0.25	0.18	0.29	0.00	2.00	0.57	0.75	20	44	36	33	29	38
2619.00	CUTTINGS	S8724	U1s		0.36	0.43	0.53	0.90	0.93	0.13	0.84	24	29	47			
2642.00	SWC	S8712	U2s		0.34	0.41	0.53	0.95	0.87	0.13	0.86	26	28	46			
2670.00	CUTTINGS	S8726	U3s		0.35	0.41	0.47	0.68	0.87	0.12	0.83	25	29	47			
2680.00	SWC	S8714	U4	whole ext	0.16	0.37	0.34	0.51	0.27	0.09	0.71	23	24	53			
2731.00	SWC	S8715	U5	whole ext	0.19	0.36	0.41	0.18	0.38	0.08	0.74	25	26	49			
2757.00	CUTTINGS	S8728	U6s		0.33	0.40	0.45	0.50	0.74	0.13	0.79	25	29	46			
2871.00	CUTTINGS	S8703	M1		0.22	0.41	0.44	0.12	0.56	0.13	0.76	17	18	65			
2015.75	PLUG	S8676	CR1		0.48	0.52	0.58	1.48	2.00	0.33	0.87	28	29	43			
2017.70	CORE-CHIP	S8735	CR2		0.48	0.53	0.59	1.25	2.19	0.37	0.85	26	29	45			
2148.48	PLUG	S8678	CR3		0.42	0.51	0.57	1.26	1.63	0.27	0.85	24	29	47			
2150.25	PLUG	S8679	CR4		0.37	0.45	0.57	1.29	1.63	0.27	0.86	26	28	46			
2154.25	PLUG	S8680	CR5		0.47	0.51	0.54	1.38	2.27	0.49	0.82	28	33	39			
2779.00	PLUG	S8681	JR1		0.38	0.45	0.55	1.48	0.88	0.15	0.87	29	28	43			
2789.00	CORE-CHIP	S8731	JR2		0.36	0.45	0.53	1.06	1.07	0.16	0.85	23	28	48			
2797.25	PLUG	S8684	JR3		0.34	0.46	0.55	1.20	1.00	0.16	0.86	23	28	49			
2804.50	PLUG	S8685	JR4		0.35	0.45	0.54	1.18	1.18	0.20	0.85	23	29	48			
2808.60	CORE-CHIP	S8698	JR5		0.37	0.47	0.53	1.06	1.20	0.18	0.85	23	27	50			
2814.50	PLUG	S8686	JR6		0.32	0.47	0.53	1.22	1.38	0.23	0.84	23	29	48			
2815.82	CORE-CHIP	S8732	JR7		0.34	0.48	0.56	1.18	1.31	0.22	0.84	23	28	49			
2819.75	PLUG	S8688	JR8		0.32	0.49	0.55	1.29	1.67	0.31	0.81	23	30	47			
2821.31	CORE-CHIP	S8733	JR9		0.35	0.51	0.53	1.16	1.53	0.29	0.82	23	27	50			
2821.50	PLUG	S8689	JR10		0.33	0.50	0.57	1.33	1.56	0.30	0.81	23	29	48			
2823.30	CORE-CHIP	S8734	JR11		0.35	0.52	0.57	1.19	1.47	0.32	0.81	23	28	49			
Fluids																	
2032.50	FMT 3D	S8737	F1	whole oil	0.45	0.50	0.58	1.38	1.76	0.31	0.86	22	29	49			
2043.90	RCI 3A	S8738	F2	whole oil	0.45	0.50	0.59	1.32	2.16	0.36	0.84	23	31	46			

TABLE 6.(cont.) BIOMARKER PARAMETERS FROM GCMS, WELL 6204/11-1

Depth m RKB	Sample type	Sample no.	Codes in figs.	Comments	C30/st	Dia/ reg	28ab/H	H/S	ppmH	ppmS	3R/H	4R/H	35/34H	29/30H	Dem/H	O/H	G/H
2134.39	CORE-CHIP	S8719	C1		0.06	0.65	1.00	3.27	295	90	0.23	0.24	1.06	0.41	0.37	0.00	0.09
2157.60	CORE-CHIP	S8722	C2	whole ext	0.07	0.17	6.14	3.07	*	*	0.00	0.10		0.29	0.00	0.00	
2619.00	CUTTINGS	S8724	U1s		0.10	1.20	0.20	5.07	824	163	0.06	0.08	0.69	0.41	0.24	0.00	0.02
2642.00	SWC	S8712	U2s		0.08	1.09	0.19	4.35	1005	231	0.09	0.09	0.65	0.45	0.25	0.00	0.09
2670.00	CUTTINGS	S8726	U3s		0.08	1.23	0.30	4.98	986	198	0.05	0.08	0.53	0.41	0.21	0.00	
2680.00	SWC	S8714	U4	whole ext	0.08	0.62	0.05	19.69	*	*	0.10	0.03	0.93	0.71	0.04	0.00	
2731.00	SWC	S8715	U5	whole ext	0.06	0.84	0.00	17.30	*	*	0.14	0.05	0.86	0.64	0.07	0.00	
2757.00	CUTTINGS	S8728	U6s		0.08	1.07	0.20	6.33	464	73	0.07	0.08	0.71	0.48	0.24	0.00	
2871.00	CUTTINGS	S8703	M1		0.00	0.50	0.09	4.49	754	168	0.02	0.06	0.77	0.50	0.07	0.00	
2015.75	PLUG	S8676	CR1		0.09	1.85	0.26	3.34	762	229	0.22	0.21	0.69	0.57	0.63	0.00	
2017.70	CORE-CHIP	S8735	CR2		0.09	1.85	0.28	3.31	899	271	0.13	0.15	0.67	0.50	0.69	0.00	
2148.48	PLUG	S8678	CR3		0.10	1.56	0.24	4.09	1160	284	0.08	0.10	0.64	0.46	0.57	0.00	
2150.25	PLUG	S8679	CR4		0.11	1.55	0.26	4.41	986	223	0.08	0.10	0.69	0.47	0.59	0.00	
2154.25	PLUG	S8680	CR5		0.10	2.28	0.36	5.48	784	143	0.19	0.21	0.68	0.56	1.33	0.00	
2779.00	PLUG	S8681	JR1		0.07	1.11	0.21	4.30	518	120	0.40	0.29	0.71	0.66	0.23	0.00	
2789.00	CORE-CHIP	S8731	JR2		0.10	1.22	0.23	3.98	1166	293	0.04	0.05	0.67	0.40	0.26	0.00	
2797.25	PLUG	S8684	JR3		0.09	1.11	0.23	4.11	1317	320	0.07	0.07	0.70	0.42	0.24	0.00	0.03
2804.50	PLUG	S8685	JR4		0.09	1.10	0.25	3.73	881	236	0.05	0.06	0.70	0.42	0.29	0.00	
2808.60	CORE-CHIP	S8698	JR5		0.10	1.14	0.26	3.97	1120	282	0.04	0.05	0.80	0.43	0.31	0.00	
2814.50	PLUG	S8686	JR6		0.09	1.19	0.23	3.84	843	219	0.07	0.07	0.77	0.46	0.33	0.00	
2815.82	CORE-CHIP	S8732	JR7		0.09	1.18	0.21	3.89	963	247	0.05	0.06	0.77	0.44	0.31	0.00	0.02
2819.75	PLUG	S8688	JR8		0.09	1.16	0.19	3.47	621	179	0.07	0.09	0.73	0.51	0.42	0.00	
2821.31	CORE-CHIP	S8733	JR9		0.09	1.46	0.22	3.71	944	254	0.07	0.08	0.75	0.53	0.45	0.00	
2821.50	PLUG	S8689	JR10		0.09	1.28	0.19	3.52	703	200	0.06	0.10	0.71	0.48	0.41	0.00	0.02
2823.30	CORE-CHIP	S8734	JR11		0.09	1.32	0.23	3.40	839	247	0.06	0.08	0.78	0.59	0.50	0.00	0.03
Fluids																	
2032.50	FMT 3D	S8737	F1	whole oil	0.12	1.40	0.24	2.95	931	316	0.04	0.08	0.69	0.44	0.53	0.00	
2043.90	RCI 3A	S8738	F2	whole oil	0.11	2.16	0.25	2.56	860	336	0.06	0.12	0.70	0.48	0.71	0.00	0.00

* std in m/z 219 not identifiable