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Report number APT11-2767	Classification
Report Title Geochemistry Data Report - Analyses of Cutting, Core, Gas and Fluid Samples Well 6407/4-2 (Spinell)	Submitted August 2011
Client Statoil	Service Order APT11-11/ PO4502245044
Client Reference Maik Inthorn	Number of pages 150
Distribution Statoil (digital) APT (digital)	

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Table 10. continued, Gas Composition (volume-%)

Well	Sample type	Upper Depth (m)	Lower Depth (m)	APT ID	C1-nC4 (%THCG)	C2-nC4 (%THCG)	C5+ (%THCG)	Wetness	iC4/nC4
6407/4-2	Isotube	1500	1500	85369	100.0	0.27	0.0000	0.27	
6407/4-2	Isotube	2372	2372	85370	100.0	4.32	0.019	4.33	0.88
6407/4-2	Isotube	2404	2404	85371	100.0	4.95	0.043	4.96	0.88
6407/4-2	Isotube	2515	2515	85372	99.5	6.84	0.12	6.87	0.77
6407/4-2	Isotube	2794	2794	85373	98.4	19.6	0.51	19.9	0.34
6407/4-2	Isotube	3900	3900	85374	94.5	29.8	1.96	31.6	0.31
6407/4-2	Isotube	4000	4000	85375	87.1	10.5	0.0000	12.0	0.50
6407/4-2	Isotube	4007	4007	85376	95.0	10.4	0.11	10.9	0.56
6407/4-2	Isotube	4025	4025	85377	96.1	8.76	0.0000	9.11	0.64
6407/4-2	Isotube	4042	4042	85378	97.8	12.8	0.0000	13.1	0.46
6407/4-2	Isotube	4073	4073	85379	91.7	14.6	0.0000	15.9	0.44
6407/4-2	Isotube	4126	4126	85380	89.6	11.5	0.13	12.8	0.47
6407/4-2	Isotube	4147	4147	85381	98.8	9.93	0.13	10.0	0.49
6407/4-2	Isotube	4168	4168	85382	89.3	15.7	0.21	17.5	0.43

Table 11. Gas Isotopes ($\delta^{13}\text{C}$ (‰ PDB) & δD (‰ SMOW))

Well	Sample type	Upper Depth (m)	Lower Depth (m)	APT ID	C1 $\delta^{13}\text{C}$	C2 $\delta^{13}\text{C}$	C3 $\delta^{13}\text{C}$	i-C4 $\delta^{13}\text{C}$	n-C4 $\delta^{13}\text{C}$	i-C5 $\delta^{13}\text{C}$	n-C5 $\delta^{13}\text{C}$	CO2 $\delta^{13}\text{C}$	C1 δD
6407/4-2	Isotube	1500	1500	85369	-67.9	-44.4	-34.3					-14.0	-192.0
6407/4-2	Isotube	2372	2372	85370	-42.5	-34.1	-28.6					-14.2	-188.0
6407/4-2	Isotube	2404	2404	85371	-42.6	-27.7	-26.6					-11.8	-189.0
6407/4-2	Isotube	2515	2515	85372	-41.7	-27.0	-26.3					-11.7	-189.0
6407/4-2	Isotube	2794	2794	85373	-48.5	-36.2	-33.0	-33.5					-234.0
6407/4-2	Isotube	3900	3900	85374	-45.5	-35.1	-31.3	-31.2		-34.1			-231.0
6407/4-2	Isotube	4000	4000	85375	-48.8	-35.8	-31.5					-16.1	-259.0
6407/4-2	Isotube	4007	4007	85376	-48.3	-32.7	-29.4					-11.8	-234.0
6407/4-2	Isotube	4025	4025	85377	-48.1	-31.9	-28.6					-14.0	-229.0
6407/4-2	Isotube	4042	4042	85378	-46.2	-30.6	-27.0					-16.2	-224.0
6407/4-2	Isotube	4073	4073	85379	-45.6	-31.2						-10.2	-257.0
6407/4-2	Isotube	4126	4126	85380	-46.8	-32.5						-14.9	-244.0
6407/4-2	Isotube	4147	4147	85381	-47.4	-33.3	-30.0					-13.2	-219.0
6407/4-2	Isotube	4168	4168	85382	-45.8	-33.2	-31.6					-13.6	-249.0

Table 12. Extraction, Asphaltene precipitation and latroscan data

Well	Sample type	Upper Depth (m)	Lower Depth (m)	APT ID	Rock weight (g)	EOM (mg)	EOM (mg/kg Rock)	SAT (wt% of EOM/Oil)	ARO (wt% of EOM/Oil)	POL (wt% of EOM/Oil)	ASP (wt% of EOM/Oil)	HC (wt% of EOM/Oil)
6407/4-2	COCH	4013.10	4013.13	85358A	20.227	38	1884	83.4	6.9	7.6	2.1	90.3
6407/4-2	COCH	4015.43	4015.46	85359A	20.572	34	1653	85.2	7.5	4.5	2.8	92.7
6407/4-2	COCH	4015.43	4015.46	85360A	19.593	19	985	71.8	11.1	15.6	1.6	82.8
6407/4-2	COCH	4020.44	4020.47	85361A	20.743	37	1793	87.0	7.9	4.2	0.8	95.0
6407/4-2	COCH	4029.52	4029.55	85362A	20.401	32	1578	85.7	8.1	4.2	2.0	93.8
6407/4-2	COCH	4034.59	4034.62	85363A	20.791	28	1356	85.9	7.0	5.1	2.1	92.9
6407/4-2	COCH	4038.55	4038.58	85364A	19.822	33	1650	81.1	8.4	8.3	2.1	89.6
6407/4-2	COCH	4039.57	4039.60	85365A	20.010	7	330	31.5	14.1	47.9	6.4	45.7
6407/4-2	COCH	4043.46	4043.49	85366A	19.632	2	127	2.0	31.0	43.4	23.6	33.0
6407/4-2	COCH	4050.58	4050.61	85367A	19.947	7	336	20.8	22.1	50.6	6.5	42.9
6407/4-2	Mud		4013	85368		112		42.7	4.8	52.2	0.3	47.5
6407/4-2	Oil		4013.50	85383				65.0	5.4	29.7	0.0	70.3

Table 23. Isotopes of fractions, $\delta^{13}\text{C}$ (‰ PDB)

Well	Sample type	Upper Depth (m)	Lower Depth (m)	APT ID	$\delta^{13}\text{C}$ -OIL/ROM	$\delta^{13}\text{C}$ -Sat	$\delta^{13}\text{C}$ -Aro
6407/4-2	COCH	4013.10	4013.13	85358		-28.4	-27.2
6407/4-2	COCH	4015.43	4015.46	85359		-28.3	-27.2
6407/4-2	COCH	4015.43	4015.46	85360		-28.8	-27.6
6407/4-2	COCH	4020.44	4020.47	85361		-28.5	-27.1
6407/4-2	COCH	4029.52	4029.55	85362		-28.5	-27.1
6407/4-2	COCH	4034.59	4034.62	85363		-28.8	-27.4
6407/4-2	COCH	4038.55	4038.58	85364		-28.7	-27.2
6407/4-2	Mud		4013	85368		-28.2	nd
6407/4-2	Oil		4013.50	85383		-28.5	-27.9