

B. Appendix B

Table Captions

Table B1. Maturity modelling output data “Cold” Type II kerogen

Table B2. Maturity modelling output data “Cold” Type III kerogen

Table B3. Maturity modelling output data “Hot” Type II kerogen

Table B4. Maturity modelling output data “Hot” Type III kerogen

"cold" scenario type II	Auklet G-41		Harlequin D-86		Murrelet K-15		Osprey D-36		Sockeye B-10		Sockeye E-66		South Coho I-74		Tye N-39	
	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]
Start Oil Window	5	3100	19	3080	33	2520			23	2550	13	2510	3	2640	13	9
Start Gas Window	2	3660	16	3570	18	3400			18	3070	9	3170			9	3060
Start Overmature									11	4460						
Top Oil Window	30		30	2000	30	2000			30		30		30		30	
Base Oil Window	30		30	2300	30	2300			30		30		30		30	
Top Gas Window	30		30	2300	30	2300			30		30		30		30	
Base Gas Window	30		30		30				30		30		30		30	
Top Overmature	30		30		30				30		30		30		30	
Base Model	30	340	30	870	30	2320		150	30	1950	30	1130		230	30	1090
Top Oil Window	20		20	2600	20	2600			20	2400	20		20		20	
Base Oil Window	20		20	3000	20	3000			20	2800	20		20		20	
Top Gas Window	20		20	3000	20	3000			20	2800	20		20		20	
Base Gas Window	20		20		20				20		20		20		20	
Top Overmature	20		20		20				20		20		20		20	
Base Model	20	2060	20	3080	20	3190		880	20	2820	20	1220		400	20	1180
Top Oil Window	10		10	2575	10	2450			10	3025	10	2725			10	2675
Base Oil Window	10		10	3175	10	2875			10	4050	10	3000			10	2890
Top Gas Window	10		10	3175	10	2875			10	4050	10	3000			10	2890
Base Gas Window	10		10		10				10	4600	10				10	
Top Overmature	10		10		10				10	4600	10				10	
Base Model	10	2760	10	3990	10	3740		1810	10	4710	10	3000		1750	10	3060
Top Oil Window	5		5	2675	5	2700			5	3275	5	3000			5	2875
Base Oil Window	5		5	3175	5	3250			5	4050	5	3350			5	3225
Top Gas Window	5		5		5	3250			5	4050	5	3350			5	3225
Base Gas Window	5		5		5				5	5150	5				5	
Top Overmature	5		5		5				5	5150	5				5	
Base Model	5	3420	5	4200	5	4220		2210	5	5530	5	3530		2440	5	3570
Top Oil Window	0	2600	0	3375	0	2900			0	3225	0	3000			0	2480
Base Oil Window	0	3450	0	3850	0	3325			0	4050	0	3300			0	3150
Top Gas Window	0	3450	0		0	3325			0	4050	0	3300			0	3150
Base Gas Window	0		0		0				0	5100	0				0	
Top Overmature	0		0		0				0	5100	0				0	
Base Model	0	4100	0	4880	0	5000		2600	0	5500	0	3500		3060	0	4000

"cold" scenario type III	Auklet G-41		Harlequin D-86		Murrelet K-15		Osprey D-36		Sockeye B-10		Sockeye E-66		South Coho I-74		Tyee N-39	
	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]
Start Oil Window	5	3130	20	3090	20	2590			20	2910	13	2500			13	2400
Start Gas Window	2	3650	16	3570	16	3020			16	3210	8	3170			8	3060
Start Overmature																
Top Oil Window	30		30		30		30		30		30		30		30	
Base Oil Window	30		30		30		30		30		30		30		30	
Top Gas Window	30		30		30		30		30		30		30		30	
Base Gas Window	30		30		30		30		30		30		30		30	
Top Overmature	30		30		30		30		30		30		30		30	
Base Model	30	340	30	870	30	2320	30	150	30	1950	30	1130	30	230	30	1090
Top Oil Window	20		20	3080	20	2590	20		20	2900	20		20		20	
Base Oil Window	20		20		20		20		20		20		20		20	
Top Gas Window	20		20		20		20		20		20		20		20	
Base Gas Window	20		20		20		20		20		20		20		20	
Top Overmature	20		20		20		20		20		20		20		20	
Base Model	20	2060	20	3080	20	3190	20	880	20	2910	20	1220	20	400	20	1180
Top Oil Window	10		10	2870	10	2470	10		10	3050	10	2740	10		10	2660
Base Oil Window	10		10	3320	10	2920	10		10	4050	10		10		10	
Top Gas Window	10		10	3320	10	2920	10		10	4050	10		10		10	
Base Gas Window	10		10		10		10		10		10		10		10	
Top Overmature	10		10		10		10		10		10		10		10	
Base Model	10	2760	10	3990	10	3740	10	1810	10	4710	10	3000	10	1750	10	2890
Top Oil Window	5	3130	5	2710	5	2940	5		5	3250	5	3010	5		5	2930
Base Oil Window	5		5	3190	5	3390	5		5	4090	5	3360	5		5	3230
Top Gas Window	5		5	3190	5	3390	5		5	4090	5	3360	5		5	3230
Base Gas Window	5		5		5		5		5		5		5		5	
Top Overmature	5		5		5		5		5		5		5		5	
Base Model	5	3420	5	4200	5	4220	5	2210	5	5530	5	3530	5	2440	5	3570
Top Oil Window	0	2600	0	3390	0	2920	0		0	3220	0	2980	0		0	3060
Base Oil Window	0	3460	0	3870	0	3310	0		0	4060	0	3320	0		0	3270
Top Gas Window	0	3460	0	3870	0	3310	0		0	4060	0	3320	0		0	3270
Base Gas Window	0		0		0		0		0		0		0		0	
Top Overmature	0		0		0		0		0		0		0		0	
Base Model	0	4100	0	4880	0	5000	0	2600	0	5500	0	3500	0	3060	0	4000

"hot" scenario type II	Auklet G-41		Harlequin D-86		Murrelet K-15		Osprey D-36		Sockeye B-10		Sockeye E-66		South Coho I-74		Tye N-39	
	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]
Start Oil Window	11	2660	21	2750	33	2520	3	2330	29	2030	13	1810	5	2100	13	1760
Start Gas Window	4	3620	18	3320	22	2650			26	2250	9	2460	2	2530	9	2430
Start Overmature					4	4250			11	3700						
Top Oil Window	30		30		30	2000	30		30		30		30		30	
Base Oil Window	30		30		30	2300	30		30		30		30		30	
Top Gas Window	30		30		30	2300	30		30		30		30		30	
Base Gas Window	30		30		30		30		30		30		30		30	
Top Overmature	30		30		30		30		30		30		30		30	
Base Model	30	340	30	870	30	2320	30	150	30	1950	30	1130	30	230	30	1090
Top Oil Window	20		20	2450	20	2525	20		20	2200	20		20		20	
Base Oil Window	20		20	3000	20	2825	20		20	2575	20		20		20	
Top Gas Window	20		20	3000	20	2825	20		20	2575	20		20		20	
Base Gas Window	20		20		20		20		20		20		20		20	
Top Overmature	20		20		20		20		20		20		20		20	
Base Model	20	2060	20	3080	20	3190	20	880	20	2820	20	1220	20	400	20	1180
Top Oil Window	10	2350	10	2225	10	1875	10		10	1925	10	1775	10		10	1725
Base Oil Window	10	2750	10	2825	10	2700	10		10	3000	10	2975	10		10	2900
Top Gas Window	10	2750	10	2825	10	2700	10		10	3000	10	2975	10		10	2900
Base Gas Window	10		10		10		10		10	3775	10		10		10	
Top Overmature	10		10		10		10		10	3775	10		10		10	
Base Model	10	2760	10	3990	10	3740	10	1810	10	4710	10	3000	10	1750	10	2900
Top Oil Window	5	2250	5	2275	5	2250	5		5	2450	5	1950	5	2100	5	1975
Base Oil Window	5	3400	5	2975	5	2750	5		5	3025	5	2700	5	2450	5	2625
Top Gas Window	5	3400	5	2975	5	2750	5		5	3025	5	2700	5	2450	5	2625
Base Gas Window	5		5		5		5		5	3975	5		5		5	
Top Overmature	5		5		5		5		5	3975	5		5		5	
Base Model	5	3420	5	4200	5	4220	5	2210	5	5530	5	3530	5	2500	5	3570
Top Oil Window	0	2600	0	2400	0	2300	0	2125	0	2325	0	1900	0	2225	0	2225
Base Oil Window	0	3450	0	2950	0	3075	0	2600	0	2650	0	2675	0	2575	0	2725
Top Gas Window	0	3450	0	2950	0	3075	0	2600	0	2650	0	2675	0	2575	0	2725
Base Gas Window	0		0	4450	0	4675	0	4675	0	3625	0	3625	0	3060	0	4000
Top Overmature	0		0	4450	0	4675	0	4675	0	3625	0	3625	0	3060	0	4000
Base Model	0	4100	0	4880	0	5000	0	2600	0	5500	0	3500	0	3060	0	4000

"hot" scenario type III	Auklet G-41		Harlequin D-86		Murrelet K-15		Osprey D-36		Sockeye B-10		Sockeye E-66		South Coho I-74		Tye N-39	
	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]	Age [Ma]	Depth [m]
Start Oil Window	5	3130	20	2400	23	2530			27	2180	13	1810	6	2100	13	1760
Start Gas Window	2	3650	16	2880	21	2760			26	2310	9	2460	2	2530	9	2430
Start Overmature			2	4510					11	4450						
Top Oil Window	30		30		30			30	30		30		30		30	
Base Oil Window	30		30		30			30	30		30		30		30	
Top Gas Window	30		30		30			30	30		30		30		30	
Base Gas Window	30		30		30			30	30		30		30		30	
Top Overmature	30		30	870	30	2320		30	30	1950	30	1130	30	230	30	1090
Base Model	30	340	30		30			30	30		30		30		30	
Top Oil Window	20		20	2400	20	2540		20	20	2190	20		20		20	
Base Oil Window	20		20		20	2840		20	20	2560	20		20		20	
Top Gas Window	20		20		20	2840		20	20	2560	20		20		20	
Base Gas Window	20		20		20			20	20		20		20		20	
Top Overmature	20		20		20			20	20		20		20		20	
Base Model	20	2060	20	3080	20	3190		20	20	2820	20	1220	20	400	20	1180
Top Oil Window	10		10	2500	10	1860		10	10	1940	10	2220	10		10	2110
Base Oil Window	10		10		10	2700		10	10	3710	10		10		10	
Top Gas Window	10		10		10	2700		10	10	3710	10		10		10	
Base Gas Window	10		10		10			10	10	4620	10		10		10	
Top Overmature	10		10		10			10	10	4620	10		10		10	
Base Model	10	2760	10	3990	10	3740		10	10	4710	10	3000	10	1750	10	2890
Top Oil Window	5	3130	5	2700	5	2240		5	5	2480	5	2590	5	2100	5	2480
Base Oil Window	5		5	3190	5	2750		5	5	3190	5	2730	5		5	2720
Top Gas Window	5		5	3190	5	2750		5	5	3190	5	2730	5		5	2720
Base Gas Window	5		5		5			5	5	5160	5		5		5	
Top Overmature	5		5		5			5	5	5160	5		5		5	
Base Model	5	3420	5	4200	5	4220		5	5	5530	5	3530	5	2440	5	3570
Top Oil Window	0	2720	0	2840	0	2920		0	0	2340	0	2490	0	2240	0	2230
Base Oil Window	0	3470	0	3040	0	3310		0	0	2650	0	2700	0	2580	0	2720
Top Gas Window	0	3470	0	3040	0	3310		0	0	2650	0	2700	0	2580	0	2720
Base Gas Window	0		0		0			0	0	5130	0		0		0	
Top Overmature	0		0		0			0	0	5130	0		0		0	
Base Model	0	4100	0	4880	0	5000		0	0	5500	0	3500	0	3060	0	4000

Queen Charlotte Basin Schneckle Plots
(Type II kerogen "Cold Scenario")

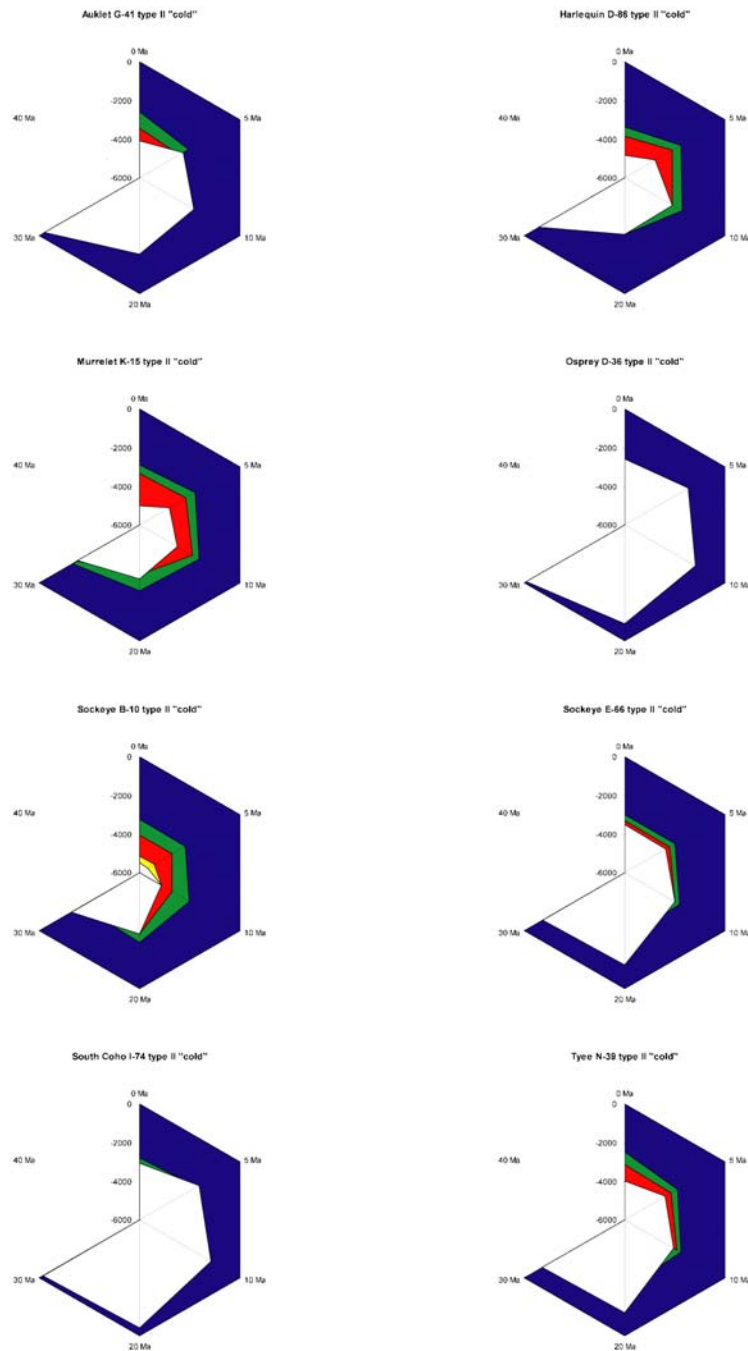


Figure B1. Comparative depth plots of oil and gas zones for 8 offshore QCB wells for various time slices (30 Ma to present), based on modelled data – Type II kerogen "Cold" Scenario/

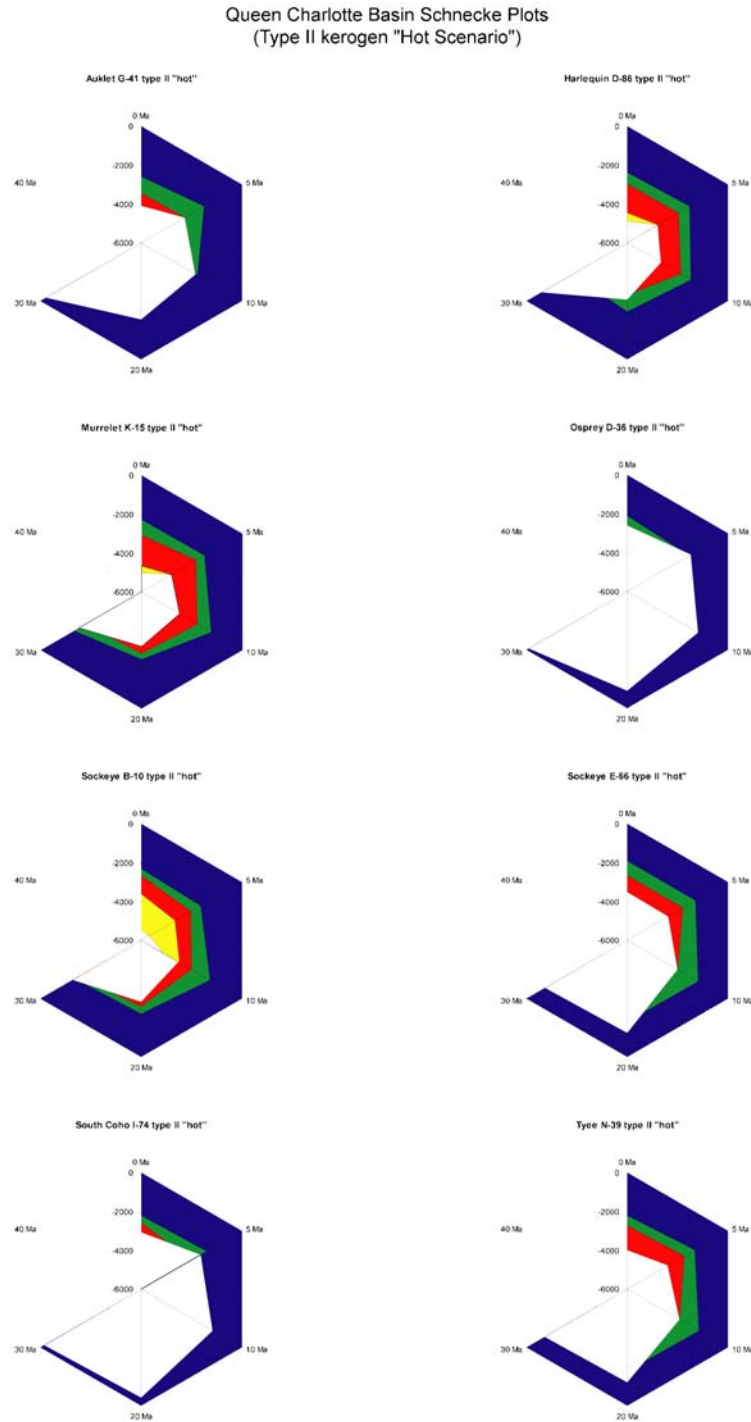


Figure B2. Comparative depth plots of oil and gas zones for 8 offshore QCB wells for various time slices (30 Ma to present), based on modelled data – Type II kerogen "Hot" Scenario.

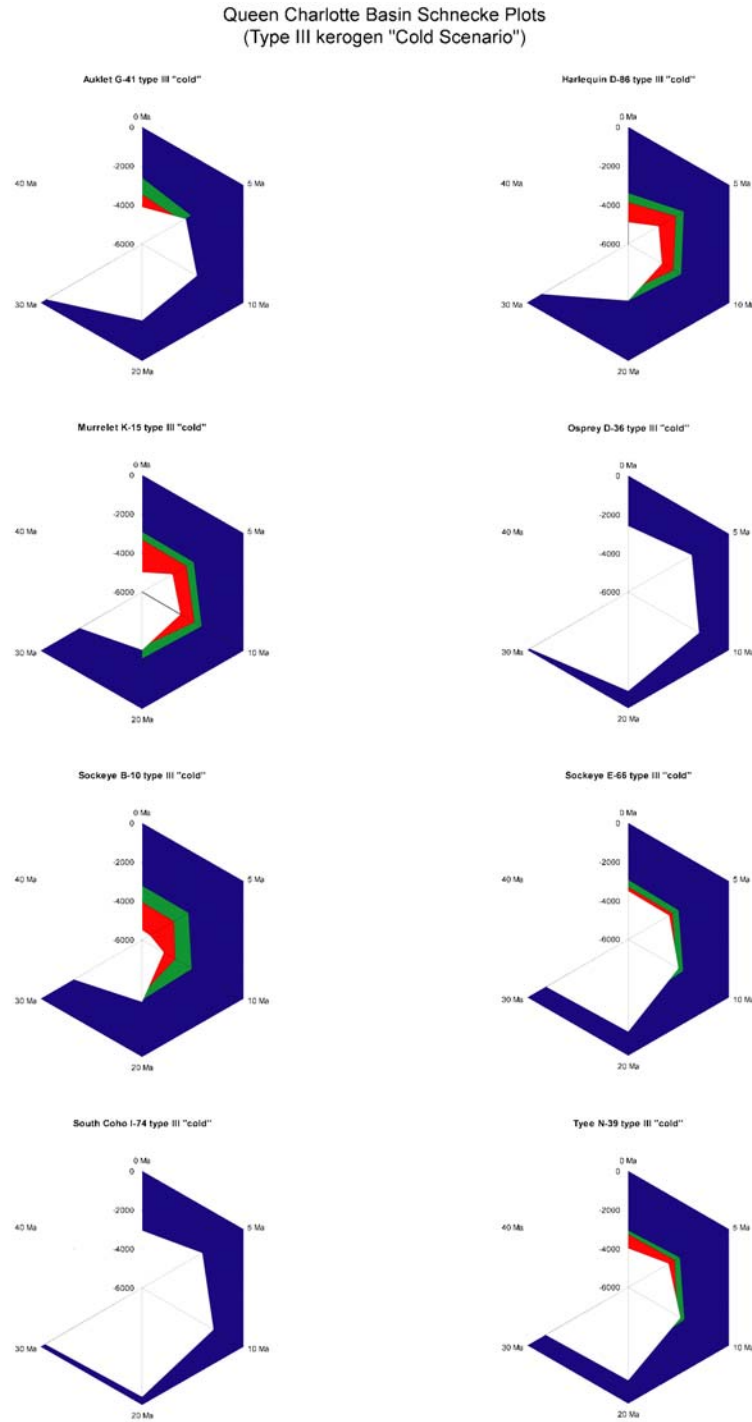


Figure B3. Comparative depth plots of oil and gas zones for 8 offshore QCB wells for various time slices (30 Ma to present), based on modelled data – Type III kerogen "Cold" Scenario.

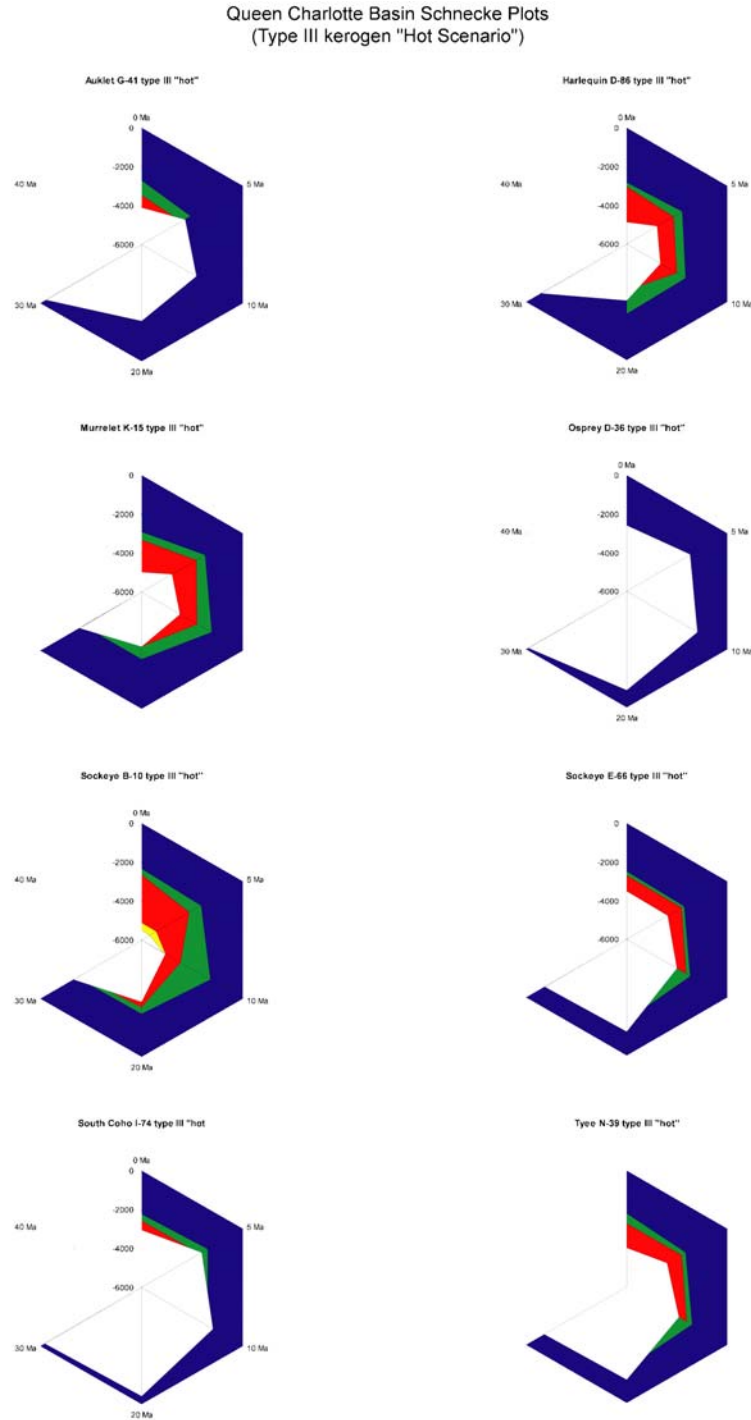


Figure B4. Comparative depth plots of oil and gas zones for 8 offshore QCB wells for various time slices (30 Ma to present), based on modelled data – Type III kerogen "Hot" Scenario