



DEPT. NAT. RES & ENV  
PE902093

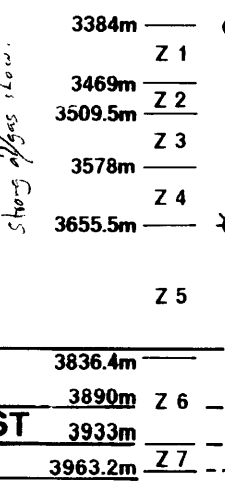
# ARCHER-1 STRATIGRAPHY

From ARCHER-1 W.C.R. Vol II

A.H., May 1990

AGE/EPOCH	LITHO. STRATIGRAPHY	BIO. STRAT.	SEISMO. STRAT.	TWT (sec) S.S.	DEPTH (m) R.K.B.	DEPTH (m) S.S.	KEY HORIZONS	STRAT. COLUMN	LITHOLOGY	
							RKB (ELEV. 28m)			
							SEA LEVEL			
							SEA FLOOR			
PLIOCENE	SEASPRAY GROUP	GIPPSLAND LIMESTONE	TG6	0.223	195	(-167)		500m	NO RETURNS	
										CALCARENITE: light grey, firm-mod. hard, calc. cmt, arg. i.p., abundant fossils, occ. trace carb. matrix.
										MARL: light grey, occ. medium grey, soft, sticky.
										MARL: light olive grey, soft, sticky, silty i.p., amorph.
MIOCENE	SEASPRAY GROUP	LAKES ENTRANCE FORMATION UPPER	TL2	1.073	1317.5	(-1289.5)	TOP LAKES ENTRANCE	1500m	CALCAREOUS CLAYSTONE: light to med. grey, soft, sticky, trace glauconite.	
										SILTSTONE: med. to dark grey, firm to occ. hard, blocky, com. carb. matrix, calc.
										CLAYSTONE: light to med. grey, soft to firm, silty, very calc., amorph. to occ. blocky.
OLIGO-CENE	LATROBE GROUP	LAKES ENTRANCE FORMATION LOWER	TL1	1.700	2145	(-2117)	INTRA LAKES ENTRANCE MARKER	2000m	CLAYSTONE: predom. as above with trace fine dissem. pyrite.	
EOCENE	LATROBE GROUP	GURNARD FM.	GURNARD FM.	1.994	2558.5	(-2530.5)	TOP GURNARD	2500m	MARL: light grey, soft, silty, amorph. to blocky.	
										SILTSTONE: dark grey, dark green, soft to firm, very arg., abundant glauc., sandy i.p.
										SILTSTONE: med-dark green, soft to firm, abundant glauconite, argil. micac., tr. carb. matrix, amorph.
										SANDSTONE: clear, transl., very fine to very coarse, mica, arg., occ. pyrite, no shows.
										COAL: black, vitreous, brittle.
										SILTSTONE: light grey, light grey brown, arg., firm to mod. hard, interbedded with:
										SANDSTONE: as above: fine to very coarse, predom. loose, argil. mod. to good porosity, no shows.
										SANDSTONE: clear, transl., loose, fine to med., com. pyrite, tr. of coal, no shows.
										SILTSTONE: light grey to grey brown, firm to mod. hard, arg. sandy.
										SANDSTONE: clear to transl., med. to coarse.
PALAEO.	LATROBE GROUP	L. BALMEI	PL 1	2.049	2640	(-2612)	TOP LATROBE (TOP PALAEOCENE)	3000m	COAL: black, dark brown, hard, brittle, subbit.	
										SANDSTONE: clear to transl., med. to coarse, arg. to subang. mod. srt., lose, loose, friable, no shows.
										SILTSTONE: light grey, firm to mod. hard, arg. sandy.
										CLAYSTONE: med. grey, soft to firm, silty.
										SANDSTONE: as above with good oil shows.
MAASTRICHTIAN	LATROBE GROUP	T. LONGUS	UK5	2.090	2707	(-2679)	TOP MAASTRICHTIAN	3500m	SANDSTONE: clear, transl., med. to coarse, with good oil shows.	
										SANDSTONE: predom. as above with trace to mod. oil shows, and mod. to good gas shows.
										SILTSTONE: as above. Trace of coal.
										SANDSTONE: clear, transl., med. to coarse, trace calc. cement, trace mod. oil shows and good gas shows.
										CLAYSTONE: med. grey, soft-firm, silty, blocky.
										SANDSTONE: as above with good gas shows.
										SILTSTONE: med. to dark grey, arg.
										CLAYSTONE: as above.
CAMPANIAN	LATROBE GROUP	T. LILLIEI	UK4	2.126	2768	(-2740)		4000m		
GOLDEN BEACH GROUP	LATROBE GROUP	N. SENECTUS	UK2	2.268	3016	(-2988)	TOP SELENE SST EQUIVALENT	4000m		
GOLDEN BEACH GROUP	LATROBE GROUP	SST '1'	UK2	2.268	3016	(-2988)	TOP CAMPANIAN	4000m		
GOLDEN BEACH GROUP	LATROBE GROUP	SST '2'	UK2	2.310	3094	(-3066)	TOP CAMPANIAN	4000m		
GOLDEN BEACH GROUP	LATROBE GROUP	SST '2'	UK2	2.406	3270	(-3242)		4000m		
GOLDEN BEACH GROUP	LATROBE GROUP	SST '2'	UK2	2.512	3480.5	(-3452.5)		4000m		
GOLDEN BEACH GROUP	LATROBE GROUP	SST '2'	UK2	2.596	3651.4	(-3623.4)		4000m		
GOLDEN BEACH GROUP	LATROBE GROUP	SST '2'	UK2	2.675	3815.5	(-3787.5)	TOP CAMPANIAN '1' SST ?	4000m		
GOLDEN BEACH GROUP	LATROBE GROUP	SST '2'	UK2	2.710	3890	(-3862)	BASE CAMPANIAN '1' SST	4000m		
GOLDEN BEACH GROUP	LATROBE GROUP	SST '2'	UK2	2.732	3933	(-3905)	TOP CAMPANIAN '2' SST	4000m		
GOLDEN BEACH GROUP	LATROBE GROUP	SST '2'	UK2	2.778	4050	(-4022)	TD ARCHER-1	4000m		

Z TOP (RKB)



Z = RESERVOIR ZONATION