TABLE 6
Distribution of Diatom Species and Zonation of the Paleogene Sections in Holes 328 and 328B

Sample (Interval in cm)	Preservation	Abundance	*Bogorovia veniamini*	*Actinoptychus undulatus* s.l.	*Synedra jouseana*	*Coscinodiscus marginatus*	*Stephanopyxis turris*	*Stephanopyxis grunowii*	*Stephanopyxis superba*	*Stictodiscus californicus*	*Ethmodiscus* "fragments"	*Hemiaulus polymorphus*	*Coscinodiscus vigilans*	*Rhizosolenia* sp. A	*Coscinodiscus vetutissimus*	*Pyrgupyxis prolongata*	*Coscinodiscus lineatus*	*Synedra jouseana* v. A	*Trinacria excavata*	*Pleurosigma* sp.	*Coscinodiscus tabularis*	*Grammatophora* sp. A	*Triceratium unguiculatum*	*Stephanopyxis* cf. *schneckii*	*Trinacria simulacrum*	*Rhaphoneis* sp. A	*Pyrgupyxis reticulata*	*Hemiaulus incisus*	*Asterolampra insignis*	*Chaetoceros* sp. A	Genus et. species indet. (C)	*Pyrgupyxis* sp. A	*Rhaphoneis* sp. B	*Xanthiopyxis oblongus*	*Melosira architecturalis*	*Pterotheca carinifera*	*Rhaphoneis belgica*	*Trinacria pileolus*	*Hemiaulus* "artifacts"	*St. superba* v. *trispinosa*	*Pyrgupyxis johnsoniana* v. *corniculum*	*Pyrgupyxis* sp. B	*Cocconeis* sp.	*Hemiaulus elegans*	*Goniotheciu m odontella*	*Pterotheca aculeifera*	*Brightwellia pulchra*	*Hemiaulus* sp. D	*Pyrgupyxis eocena*	*Hemiaulus* sp. C
3-1, 5-7	M	F	C	F	C	F	C	R	R	R	F	R	R																																									
3-1, 145-147	P	F	C		C		F				F			R	R																																							
3-2, 70-72	P	C	C		R	F	R		C		F		R		R			C																																				
3-3, 5-7	P	F	A				R				R		R			R	R	F																																				
3-3, 143-145	P	F	C	R		C	R			R	C	R						R																																				
3-4, 70-72	P	C	A		F		C			R	C	R	R					C	R																																				
3-5, 5-7	M	C	A	R	R	C	C		R	R	R	F				R		F		R	F																																	
3-5, 143-145	P	C	R		C	R	R				F	F	A			R		C			R	R	R																															
3-6, 70-72	P	C					R	F	R	R	R	F	R			F		R	R					C																														
3-6, 85-87	P	C				F		F	F		R	C				C			R					C	R	R	R		R	R	R	R	R	R																					
3-6, 126-128	P	C				R	F	F	C		F	C	R			F			R				R	F					R	R																									
4-1, 45-47	P	C				F	F	C	C	R	C	C	R	R		F		R						R	R				R	R	R	R			R	R	R	R																	
4-1, 144-146	M	C		R		F		C	C		F	A				F			R				R	C		R			F			R		R	C		R		R																
4-2, 5-7	M	C						C	R		F	C	R	F		F			R					C					R	R					R																				
4-2, 131-133	M	C				R		C	C		F	C		R		C			R				R	F					F	R		R					R			C	R	R	R												
4-3, 70-72	P	C						R	F			C		R		C													R			R			R					R															
4-3, 145-147	M	C		R		R	R	C	C			A				C								R					R	R	R	R			R		R			F															
4-4, 5-7	M	C		R		F	R	C	C		R	C				C			R						F					F		R	R			R	F	R	R		C	R													
4-4, 147-149	G	C		C			F	C	A	R	C	C		F		C								R	C	R	R			F	F	R	R																	R				
4-5, 3-5	G	A		F		R	F	C	C	R	C	C		R		C								R	C					R										R														
4-5, 145-147	G	A		F			C	R			C	C		R		C			R			C		R	R				R								F			R			R	R	R					R				
5-1, 9-11	–	B	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
5-1, 147-149	M	C				R	R	C	C	R	C	F				C			F					R	F								F	F	F	R	F			F	R											R			
5-2, 70-72	P	C		R		F	R	C	F	R	F	C				C									R	R		R					R			R	R			R	R					R	R	R			R	R			
5-3, 5-7	–	B	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
5-3, 65-67	P	C						F	F		F	R				C								R												F		R		R							R								
5-3, 84-86	P	R						R			R	R																																										
5-4, 29-31	–	B	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
5-5, 29-31	–	B	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
5-6, 27-29	–	B	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Diatom Zones: *Bogorovia veniamini*; *Pyrgupyxis prolongata*; *Melosira architecturalis*; *Hemiaulus incisus*; *Pyrgupyxis eocena/ Pterotheca aculeifera*; Not zoned

Age: Early; Miocene

Top of zeolitic clay

Sample (Interval in cm)	*Melosira architecturalis*	*Stephanopyxis superba* v. *trispinosa*	*Stephanopyxis superba*	*Stephanopyxis* cf. *schenckii*	*Stephanopyxis grunowii*	*Stephanopyxis turris*	*Pterotheca carinifera*	*Pyrgupyxis prolongata*	*Hemiaulus polymorphus*	*Hemiaulus elegans*	*Hemiaulus* "artifacts"	Genus et species indet. (C)	*Grammatophora* sp. A	*Rhaphoneis* sp. A	*Rhaphoneis belgica*	*Actinoptychus undulatus* s.l.	*Chaetoceros* sp. A	*Ethmodiscus* "fragments"	*Rhizosolenia* sp. A	*Pyrgupyxis johnsoniana*	*Stictodiscus californicus*	*Triceratium unguiculatum*	*Rhaphoneis* sp. B	*Trinacria simulacrum*	*Triceratium crenulatum*	*Pyrgupyxis johnsoniana* v. *corniculum*	*Stephanopyxis* sp. A	*Hemiaulus* sp. D	*Pterotheca aculeifera*	*Hemiaulus incisus*	*Hemiaulus* sp. C	*Xanthiopyxis oblongus*	*Pseudoraltaria montle*	*Pyrgupyxis eocena*	*Goniotheciu m odontella*	*Pyrgupyxis* sp. A	*Hemiaulus* sp. A	*Hemiaulus dissimilis*	*Asterolampra insignis*	*Pterotheca* sp. A	*Stephanopyxis superba* v. *bispinosa*	*Pyrgupyxis reticulata*	Abundance	Preservation	Sample (Interval in cm)
3-1, 5-7	F	F	F	F	F	C	R	C	R	R	R	R	R	F	F	R	R	R	F	R																								A	G	4-1, 147-149
3-1, 145-147	F		F	F	R	C		C	C			R		R	F					R	R																							A	G	4-2, 5-7
3-2, 70-72	R		R	F	F	F	R	C	C	F	R				R					F																								A	G	4-2, 78-80
3-3, 5-7	F	F	F	F	C	C		C	C						R	F	R	F	R		R																							A	G	4-2, 140-142
3-3, 143-145	F	R	F	F	C	F	R	F	C		R	R		R	F	R		C	R		R	R		R																				A	G	4-3, 5-7
3-4, 70-72	R	R	F	C	C	R	R	C	C								R	R	R									F																C	M	4-3, 81-83
3-5, 5-7								F																																			R	P	4-4, 5-7
3-5, 143-145								R																								R												R	P	4-4, 80-82
3-6, 70-72	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	B	–	4-5, 5-7
3-6, 85-87	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	B	–	4-5, 80-82
3-6, 126-128	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	B	–	4-5, 140-142

Foldout C – Table 6, Chapter 11.