Table 3. — Geologic data compilation for the Grove Neck borings (CE-Ec15, 17)

GroveNeck
Ce-Ec 15,17
76°01'30" W
39°24'18" N
Altitude: 8 Feet

SOURCES OF DATA

1. Sprague and Henwood, Inc.
2. Elliot Geophysical Company
3. U.S. Geological Survey (WRD)
4. Dr. James A. Doyle, University of California, Davis

Drillers' Log [1]		Core Intervals					Geophysical Lab Data [2]				Geophysical Logs [3]		Palynological And Stratigraphic Data [4]								
												Electric				Sample			Rock Units		Time Units		
Depth, Feet	Description	Depth, Feet	Recovery	Diameter	Barrell Type	Description	Depth, Feet	Density gm/cc	Volume Magnetic Susceptibility cgs units	Resistivity ohm/meters	Natural Gamma Rays	S.P.	Resistivity	Depth,	Type	Quality	Pollen Zone	Formation	Group	Stage	Series	System
0	sand, fine-coarse brown; gravel												0					Talbot	Columbia	Undivided	Pleistocene	Quaternary
40 34	clay, tan & sand																	?	?		?	? 34'
50	sand, fine, brown																					
74	sand, fine, brown & thin clay layers	76-78	24"	3"	split spoon	clay; grayish purple, mottled orange & red							1st run	76-78	core	barren				Cenomanian	Upper Cretaceous	
100 95	clay, red & gray												100									
150	sand																					
200 199	clay, red & gray	203-205	24"	3"	split spoon	clay; medium gray, streaked & mottled dark redish brown							200	203-205	core	barren						
208	sand, with clay layers																					
230	clay, red & gray	231-232	12"	2.8"	hxw/l	clay; as above								231-232	core	barren	lower zone III					
250 247	clay, gray	248-250	24"	2.8"	hxw/l	clay; brown-gray to dark gray with gray laminae								248-250	core	good						
260 270	clay, sandy & clay																			?	?	
282 290	clay, gray, red trace																					
296	sand, brown	293-295	36"	2.8"	hxw/l	sand; very fine, medium dark gray thin lignitic streaks & blebs							300	292-295	core	good	zone IIC					
300	sand, clay, ironstone																					
350	sand	350-352	24"	3"	split spoon	clay; dusky red with yellowish gray mottling								350-352	core	barren						
370	clay, red & gray																					
400	sand & clay layers												400									
407	clay, red & gray	414-416	24"	2"	split spoon	clay; as above								414-416	core	barren						
428	sand & clay layers																					
440	sand																					
450 488	clay, gray, sandy	493			bit	clay; dark gray								493	bit	good	zone IIB					
500 518	clay, red & gray	510-513	36"	2.8"	hxw/l	sand; fine medium gray with lignitic blebs							500	510-513	core	excellent	zone IIB					
526	clay, gray with sand layers	520-522	24"	2.8"	hxw/l	clay; medium dark gray with lite gray silty seams; lignitic blebs								522-524	core	excellent	zone IIB	Patapsco				
550 580	clay, red & gray	589-590	12"	2.8"	hxw/l	clay; medium dark gray with lite gray clay laminae; lignitic partings								589-590	core	excellent	zone IIB		Potomac			
590	sand & sandy clay																					
600 620	clay, gray	620-630	84"	2.8"	hxw/l	clay; dark gray with seams of lite gray silt; lignitic & micaceous blebs								620-630	core	excellent	zone IIB					
630	clay & sand, gray																					
650	sand, clayey																					
668 670	clay, gray	660-670	8"	2.8"	hxw/l	sand, fine-medium; clayey; dark gray; lignitic & micaceous								660-670	core	excellent	zone IIB					
680	sand																					
700	clay, red & gray	690-700	96"	2.8"	hxw/l	clay; dark reddish brown; some lite gray mottling								690-700	core	barren		?				
740	sand																					
750 764	sand & gravel																			?		
771 779	sand	779-780	12"	2"	split spoon	sand; very fine-fine; lite gray; clay laminae, medium gray								780	core	fair	zone I					
800 805	sand, fine, gray & gray clay												800									
817	sand, fine gray	818-820		2"	split spoon	clay/silt to very fine sand; lite gray								818-820	core	barren						
844	clay, red & gray																					
848	sand																					
857	clay																					
889	sand																					
894	clay, sandy, gray	890			bit	clay; medium gray							900	890	bit	not datable		Patuxent-Arundel (Undivided)				
904	sand & clay layers																					
927	sand																					
939	clay	939-940	14"	2"	split spoon	clay; dark gray								939-940	core	good	lower zone I					
950	clay, gray																					
963	clay & sand layers																					
974 984	sand & basal ironstone	989	6"	2"	split spoon	sand; fine; very micaceous; lite gray								989	core	scarce	lower zone I					
1,000 1011	sand, lite gray												1,000									
1022	sand & ironstone	1,022-1,028	12'	1.9"	nxw/l	gravel; broken quartzose clasts																1028'
1028	cobbles, quartz																					
1,050	schist; mica; decomposed						1,051	2.70	80 × 10⁻⁶	130								Wissahickon Schist ?			Cambro-Ordovician ?	
1063	schist; mica; weathered rock	1,028-1,107	67.7'	1.9"	nxw/l	plagioclase-biotite-muscovite quartz schist	1,077	2.47	<30 × 10⁻⁶	80												
						biotite-plagioclase-muscovite quartz gneiss	1,092	2.66	110 × 10⁻⁶	160										Barremian - Aptian (Undivided)	Lower Cretaceous	
1,100							1,105	2.76	1,480 × 10⁻⁶	180												
TD 1,107						garnet-bearing biotite-plagioclase-quartz gneiss or quartzite. (all rock types are cataclastic)																	

Depth Drilled, in Feet

casing

2nd run

3rd run

TDL 1,103