OWNER:Mr. J. M. BarnhardtVDMR # 610DRILLER:Sydnor Pump & Well Co. (C. Mitchell)WWCR # 115COUNTY:MiddlesexTOTAL DEPTH : 751

## GEOLOGIC LOG

O-285 No samples

Calvert formation (285-315)

285-300 Sand - gray, coarse to fine grained, angular to subangular, large number of shell fragments, small number of shark teeth and Foraminifera (<u>Siphogenerina</u>), trace of silt and collophane

300-315 Sand - gray, coarse to fine grained, angular to subangular, large number of shell fragments, small number of Foraminifera, trace of silt and collophane

Nanjemoy formation (315-460)

315-327 Sand - gray, coarse to fine grained, angular to subangular, large number of shell fragments, large amount of limestone, very glauconitic, trace of pyrite

327-385 Sand - gray, coarse to fine grained, angular to subangular, large number of shell fragments, large amount of limestone, slightly glauconitic, trace of pyrite and clay

385-400 Greensand - brown, medium to fine grained, rounded to subrounded, very sandy, small number of shell fragments, small amount of limestone

400-412 Greensand - brown, medium to fine grained, rounded to subrounded, very sandy, large number of shell fragments, large amount of limestone

412-450 No samples

450-451 Greensand - gray to green, medium grained, angular to subrounded and botryoidal, very argillaceous, slightly sandy and silty, small number of Foraminifera (<u>Abicides</u>, <u>Marginulina</u>).

Marlboro clay (460-500)

460-461 Clay - gray, trace of mica, small number of Foraminifera.

470-471 Clay - gray, trace of mica

OWNER: Mr. J.	M. Barnhardt (continued)	#610			
480-481	Clay - gray, trace of mica, small num	ber of Foraminifera			
490-491	Clay - gray, trace of mica				
Aquia formatior	Aquia formation (500-520)				
500-50 <u>1</u>	Greensand - gray to green, medium gra subrounded and botryoidal slightly sandy and silty				
510-511	Greensand - green, fine grained, angu and botryoidal, slightly of shell fragments, small Foraminifera ( <u>Nodosaria a</u>	sandy, large number number of			
Potomac group (	Potomac group (520-746)				
520-521	Sand - light gray, coarse to fine gra subangular, very arkosic argillaceous (kaolin) and	and silty, slightly			
530-531	Clay - gray, very micaceous, slightly	silty			
540-541	Sand - light gray, coarse to fine gra subangular, very arkosic argillaceous (kaolin) and	and silty, slightly			
550-551	Sand - light gray, medium to fine gra subangular, very silty an argillaceous (kaolin) ark	d micaceous, slightly			
560-561	Sand - light gray, fine grained, angu very silty and micaceous, (kaolin) and arkosic				
570-571	Silt - gray, very sandy and micaceous				
580-581	Silt - gray, very sandy and argillace micaceous	ous, slightly			
590-591	As above				
600-601	Sand - light gray, fine grained, angu very silty, slightly mica (kaolin) and arkosic	5,			
610-611	Clay - light gray to brown, slightly and micaceous	silty, ferruginous,			

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OWNER: Mr. J. M.	. Barnhardt	(continued)	#610
620-621	Clay - red	to brown with gray mottling, slightly micaceous, trace	
630-631	Clay - gray	, very silty and micaceous, s	lightly ferruginous
640-641	Sand - ligh	t gray, fine grained, angular very silty, slightly argil and mica <b>c</b> eous	
650-651	Sand - ligh	t gray, medium to fine graine subangular, slightly silty micaceous, trace of clay (	, arkosi <b>c</b> , and
660-661	Silt - ligh <sup>.</sup>	t gray very sandy, slightly m argillaceous (kaolin)	icaceous and
670-671	Sand - gray	, fine grained, angular to su silty and micaceous, sligh	
680-681	Sand - ligh	t gray, coarse to fine graine subangular, very silty and clay (kaolin) and mica	
690-691	As above		
700-701	As abo <b>v</b> e		
710-711	As above		
720-721	Sand - ligh <sup>.</sup>	t gray, medium to fine graine subangular, very silty and clay (kaolin) and mica	
730-731	Sand - gray	, medium to fine grained, ang very silty, argillaceous a micaceous	
740-741	Sand - ligh <sup>.</sup>	t gray, medium to fine graine subangular, very silty and argillaceous and micaceous	arkosic, slightly
745-746	Clay - ligh	t gray, slightly sandy, silty	, and micaceous

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GEOLOGIC SUMMARY

## <u>AGE</u>

## ROCK UNIT

0-285	No samples	í.
285-315	Miocene	Calvert formation
315-460	Eocene	Nanjemoy formation
460-500	Eocene	Marlboro clay
500-520	Eocene	Aquia formation
520 <b>-</b> 746	Lower Cretaceous	Potoma <b>c</b> group

Remarks:

Samples from 285-412 are cuttings; Samples from 450-751 are cores

> Virginia Division of Mineral Resources James L. Ruhle - Geologist March 14, 1963

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