OWNER: Greenfield Village Sub. #4 (Sydnor) DRILLER: Sydnor Hydrodynamics, Inc.

COUNTY: Spotsylvania (Fredericksburg)

VDMR: 1697

WWCR: 482-465

TOTAL DEPTH: 2771

GEOLOGIC LOG

Depth	in	feet

- O- 10 Sand reddish-brown, clean, about 5% granules; coarse- to very coarse-grained, well sorted, subrounded; arkosic (dull-white to yellowish, decomposed feldspar), 3-5% pseudomorphs of limonite-hematite-goethite after glauconite, a few decomposed schistose rock fragments; most of grains have thin coating of clay.

 10- 20 Sand and Gravel orange-brown, trace of clay; 70% coarse-to very coarse-grained sand, and 30% granule
- Sand and Gravel orange-brown, trace of clay; 70% coarseto very coarse-grained sand, and 30% granule
 gravel; fairly well sorted (0.5-3.0 mm); arkosic,
 moderately lithic (decomposed metamorphis rock
 fragments); black, organic (?) coating on many
 grains; trace of plant material.
- 20-30 Gravel and Sand orange-brown, slightly clayey; 65% granule gravel, and 35% medium-to coarse-grained sand; rather poorly sorted; arkosic, limonitic, slightly lithic.
- 30-40 Sand gray, slightly clayey, about 15% gravel (granules, very small pebbles, and fragments of larger pebbles); medium-to coarse-grained, moderately sorted, poorly rounded; arkosic.
- 40- 50 Sand gray, slightly clayey; coarse- to very coarse-grained, fairly well sorted, subrounded; arkosic.
- 50- 60 " 5-10% granule gravel, including fragments of larger pebbles.
- 60-70 Sand grayish-brown, slightly clayey, 5-10% granule gravel; medium- to very coarse-grained, moderately sorted, subrounded to rounded; arkosic.
- 70-80 Clay dark reddish-brown mottled greenish-gray, very sandy; sand is coarse, moderately sorted, subrounded, arkosic.

80- 90	Clay — bright reddish-brown mottled greenish-gray, very sandy; sand is coarse, moderately sorted, sub-rounded, arkosic.		
90-100	11	dark reddish-brown.	
100-110	Clay — mottled gray, gree amount of ark	en, and reddish-brown, moderate cosic sand, and a few small pebbles.	
110-120	grained, well	brown and gray clays and coarse- sorted, arkosic sand; gravel (80% is well sorted, subrounded to rounded,	
120-130		h cast, clayey, about 5% granules and abbles; coarse-grained; arkosic.	
130-140	Sand — brownish-gray, sl sorted, subro feldspar).	ightly clayey; coarse-grained, well ounded; arkosic (dull-white potassic	
140-150	11	moderately clayey, coarse- to very coarse-grained, 10-20% granule gravel.	
150-160	Sand — brownish-gray, clapsorted	ayey; fine- to coarse-grained, rather l, angular to subrounded; arkosic.	
160-170	Sand — grayish-brown, me grained, fair very arkosic.	oderately clayey; medium- to coarse- ly well sorted, subangular to subrounded;	
170-180	11	clayey.	
180÷190	11	very clayey (gray and greenish clays).	
190-200		y; medium- to coarse-grained, well agular to subrounded; arkosic.	
200-210	produce — III	medium- to very coarse-grained, fairly well sorted.	
210-220	H	11	
220-230	II	H	

0

230-240	Sand — gray, slightly clayey; coarse-grained, fairly well sorted, subangular to subrounded; arkosic.		
240-250	11	coarse- to very coarse-grained.	
250-260	Sand — grayish-brown, moderately clayey, 5-10% granule gravel; coarse-to very coarse-grained, fairly well sorted, subrounded; arkosic.		
260-270	11	slightly clayey, medium- to very coarse-grained, moderately sorted.	
270-277	11	11	

GEOLOGIC SUMMARY

	Rock Unit	Age
0-277	Potomac Group	Early Cretaceous

Virginia Division of Mineral Resources Robert H. Teifke - Geologist October 25, 1966