

OWNER: Prince George County School Board W# 937
DRILLER: Mitchell's C# 153
COUNTY: Prince George (Disputana) Total Depth 150'

GEOLOGIC LOG

Depth (feet)

MOORINGS "UNIT" (1-50')

0-1 No sample
1-10 Sand and clay - dark yellowish orange; medium to coarse grained; subangular to subrounded; moderately well sorted; feldspar; few opaques.
10-20 Clay - dark yellowish orange; abundant sand; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
20-30 As above.
30-40 As above except pale yellowish orange.
40-50 Sand - grayish orange; moderate clay; medium grained; subangular to subrounded; well sorted; quartz; feldspar; 2% glauconite; few opaques.

CALVERT FORMATION (50-100')

50-60 Sand - olive light gray; moderate clay; fine to medium grained; subangular to subrounded; well sorted; quartz; 3% shell fragments; some black phosphatic material; few spines.
60-70 As above plus forams (inc. Bulinima and Nonion).
70-80 Sand - olive light gray; moderate clay; fine to medium grained; subangular to subrounded; well sorted; quartz; 5% shell fragments; black phosphatic material; forams (inc. Nonion); spines.
80-90 Sand - olive light gray; abundant clay; silty; very fine to fine grained; subangular to subrounded; well sorted; quartz; 25% black phosphatic material; forams (inc. Buccella); few shell fragments.
90-100 As above.

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Depth
(feet)

MATTAPONI FORMATION (100-120')

100-110 Sand - olive light gray; moderate clay; medium grained to granular; 15% pebbles; subangular to rounded; poorly sorted; quartz; glauconite 50% of sand sized fraction; shell fragments; foram.

110-120 As above except 10% pebbles; no foram.

PATUXENT FORMATION (120-150')

120-130 Sand - off white; moderate clay; medium grained; subangular to subrounded; well sorted; quartz; feldspar; 3% glauconite; muscovite.

130-140 Sand - off white; moderate clay; medium grained to granular; subrounded; moderately sorted; quartz; feldspar; muscovite; few grains of glauconite.

140-150 Sand - white; slightly clayey; medium grained to granular, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of garnet; pyrite.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

Thickness
(feet)

	<u>Rock Unit</u>	<u>Time Rock Unit</u>
49	Moorings "Unit"	Pleistocene
50	Calvert Formation	Miocene - Eocene
20	Mattaponi Formation	Eocene - Cretaceous
30	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
August 10, 1978

OWNER: Prince George County School Board (Disputanta School)
DRILLER: Mitchell Well & Pump Co.
COUNTY: Prince George (Disputanta)

VDMR # 937
WWCR # 153

GEOLOGIC LOG

Columbia group (0-50')

- 0-10 Sand-light brown, silty, very coarse to fine grained,
angular to subrounded, muscovite
- 10-20 As above
- 20-30 As above
- 30-40 Silt-yellowish brown, arenaceous, quartz, angular to
subangular, muscovite
- 40-50 Sand-light brown, silty, medium to fine grained, subangular
to subrounded, muscovite, glauconite, collophane

Pamunkey group (50-140')

- 50-60 Sand-green, silty, calcareous, medium to fine grained,
angular to subangular, muscovite, hornblend, zircon,
shell fragments, echinoid spines
- 60-70 As above
- 70-80 As above
- 80-90 Sand-green, very fine grained, angular to subrounded,
muscovite, zircon, hornblende, garnet, considerable
glauconite, echinoid spines
- 90-100 As above
- 100-110 Sand & gravel-greenish gray, silty, Sand-medium to fine
grained, angular to subrounded, glauconite, collophane,
muscovite, garnet. Gravel-pebble to granule size,
angular to subrounded, quartz & feldspar fragments
- 110-120 As above, with shell fragments
- 120-130 Sand-light gray, silty, coarse to very fine grained,
angular to subrounded, muscovite, collophane,
glauconite, garnet, weathered pyrite
- 130-140 Sand-light gray, silty, very coarse to very fine grained,
angular to subrounded, muscovite, collophane, garnet,
weathered pyrite

Granite Wash (140-150')

140-150 Gravel, granite wash-granule to fine grained, angular to subangular, milky, smokey & rose quartz fragments, (some iron stained), coarse to medium grained, angular feldspar fragments, granite fragments, garnet, collophane, glauconite, pyrite, & muscovite

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-50	Columbia group	Pleistocene
50-140	Pamunkey group	Eocene
140-150	Granite Wash	Precambrian ?

Virginia Division of Mineral Resources
 Roger C. Wilkenloh - Geologist
 Feb. 24, 1964