

OWNER: Elwyn Motel (Coghill)
DRILLER: Mitchell's
COUNTY: Prince George

W# 585
C# 152
Total depth: 150'

GEOLOGIC LOG

Depth (feet)

MOORINGS "UNIT" (1-30')

0-1 No sample

1-10 Sand and clay - pale yellowish orange; moderate clay; abundant sand; medium to very coarse grained, some granules; subangular; moderately sorted; quartz; feldspar; some shell fragments; few opaques.

10-20 Clay - dark yellowish orange; moderate sand; very fine to coarse grained, few granules; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques; muscovite; foram.

20-30 Sand - dark yellowish orange; moderate staining; abundant clay; medium to coarse grained with some fine grains, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; few shell fragments; few opaques.

CALVERT FORMATION (30-130')

30-40 Clay - yellowish gray; slightly sandy; fine to medium grained with some coarse grains, few granules; subangular to subrounded; poorly sorted; quartz; 10% shell fragments; feldspar; muscovite; few spines.

40-50 Clay - light gray; 35% shell fragments inc. gastropod; forams (inc. Nonion and Quinqueloculina).

50-60 Clay - light olive gray; moderate sand; very fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 15% shell fragments; 2% black phosphatic material; spines; forams (inc. Amphistegina, Robulus, Nonion, Quinqueloculina, and Pyrulina).

60-70 Shell hash and clay - light gray; slightly sandy; very fine to fine grained with some medium grains; subangular to subrounded; moderately well sorted; 50% shell fragments; quartz; few black phosphatic fragments; forams (inc. Quinqueloculina, Nonion, and Textularia).

70-80 Sand - light olive gray; moderate clay; very fine to medium grained with some coarse grains; subangular to subrounded; moderately sorted; quartz; 30% shell fragments; spines; some black phosphatic material; forams (inc. Quinqueloculina and Amphistegina); ostracodes; glauconite.

OWNER: Elwyn Motel (Coghill) -2-

W#585

- 80-90 Sand - light olive gray; moderate clay; fine grained; subangular; well sorted; quartz; 7% shell fragments; 2% black phosphatic material; spines; forams; ostracode.
- 90-100 Sand - olive light gray; moderate clay; very fine to fine grained, few granules; subangular; moderately well sorted; quartz; 3% black phosphatic material; 2% glauconite; muscovite.
- 100-110 Sand - olive light gray; moderate clay; very fine to fine grained with some medium grains, some granules, few pebbles; subangular to subrounded; poorly sorted; quartz; 5% black phosphatic material; 3% glauconite; muscovite; few grains of garnet.
- 110-120 Sand - olive light gray; abundant clay; very fine to fine grained; subangular; well sorted; quartz; 2% black phosphatic fragments; some glauconite; muscovite; vertebra.
- 120-130 As above.

PATUXENT FORMATION (130-150')

- 130-150 Sand - white; slightly clayey; medium to very coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; black phosphatic material; garnet.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Thickness (feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
29	Moorings "Unit"	Pleistocene
100	Calvert Formation	Miocene - Eocene
20 +	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
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