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INTERVAL SHEET

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VDMR WELL NO. 538

Date 9-25-61

Sample Interval: from 0 to 216

PROP: Prince George County (High School Well)

Total Depth _____

COMP: Mitchell's

Oil ____ Gas ____ Water ____ x Exploratory ____

COUNTY: Prince George

Cuttings X Core ____ Other ____

WASHED SAMPLES

From-To	From-To	From-To	From-To	From-To
-	0-10	-	-	-
-	20-30	-	-	-
-	30-40	-	-	-
-	40-50	-	Complete set of sampled intervals	-
-	50-60	-	-	-
-	60-70	-	-	-
-	70-80	-	-	-
-	80-90	-	-	-
-	90-100	-	-	-
-	100-110	-	-	-
-	110-120	-	-	-
-	120-130	-	-	-
-	130-140	-	-	-
-	140-150	-	-	-
-	150-	-	-	-
-	150-175	-	-	-
-	175-200	-	-	-
-	200-216	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

OWNER: Prince George County (High School Well)
DRILLER: Mitchell's
COUNTY: Prince George

W# 538
C# 151
Total Depth: 216'

GEOLOGIC LOG

Depth (feet)

MOORINGS "UNIT" (0-60')

0-10 Clay - very pale orange; moderately sandy;very fine to fine grained with some medium grains; subangular; moderately well sorted; quartz; some opaques.

10-20 Clay - dark yellowish orange; some staining; fine to coarse grained, few granules; subangular to subrounded; poorly sorted; quartz; feldspar; 3% ferricrete; few opaques; few glauconite grains

20-30 Sand - grayish orange; moderate clay; coarse grained to granular with some medium grains, few pebbles; subrounded; moderately sorted; quartz; feldspar

30-40 Clay - grayish orange; moderate sand; very fine to very coarse grained, 10% granules, some pebbles; subangular to subrounded;poorly sorted; quartz; feldspar; some ferricrete; some opaques

40-50 Sand - dark yellowish orange; some staining; moderate clay; medium to very coarse grained, 20% granules; subangular to subrounded; moderately sorted; quartz; feldspar

50-60 As above except some fine grains; 5% pebbles; some opaques; some glauconite

CALVERT FORMATION (60-100')

60-70 Clay - light olive gray; slightly sandy; fine to medium grained with some coarse grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite

70-80 Sand - olive light gray; abundant clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 7% shell fragments; black phosphatic material; few spines; forams (inc. - Quinqueloculina)

80-90 Clay and sand - olive light gray; abundant clay; moderate sand; fine to medium grained with some coarse grains; subangular to subrounded; moderately well sorted; quartz; 3% shell fragments; 3% phosphatic fragments; spines; forams (inc. Nonion)

90-100 Sand - olive light gray; abundant clay; very fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 10% black phosphatic material; some shell fragments; glauconite; spines; few grains of garnet; bone fragment; forams rare (inc. Nonion)

NANJEMOY - MATTAPONI FORMATION (100-140')

100-110 Sand - moderate olive brown; moderate clay; fine to medium grained; subangular to rounded; well sorted; 70% glauconite; quartz; some shell fragments

110-120 Clay - olive light gray; moderate sand; very fine to medium grained; subangular to rounded; moderately well sorted; quartz; 35% glauconite; 2% muscovite

120-130 Clay - grayish olive; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; 50% glauconite; quartz; 15% shell fragments; forams (inc. Robulus)

130-140 Granules and gravel - greenish gray; slightly clayey; moderate sand; medium grained to gravel (35%); subangular to rounded; poorly sorted; quartz; glauconite 50% of sand sized fraction; feldspar; some garnet; shell fragments; few sandy limestone fragments; forams

PATUXENT FORMATION (140-216')

140-150 Sand - white; slightly clayey; medium to very coarse grained, few granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few shell fragments; muscovite

150-175 As above except no pebbles

175-200 Sand - white; coarse to very coarse grained with some medium grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar

200-216 As above except slightly clayey; medium to very coarse grained; few grains of glauconite

Logged by: Michael Currie

GEOLOGIC SUMMARY

Thickness (feet)	Rock Unit	Time Rock Unit
60	Moorings "Unit"	Pleistocene
40	Calvert Formation	Miocene-Eocene
40	Nanjemoy Formation	Eocene - Cretaceous
76	Patuxent Foramtion	Cretaceous

VIRIGNIA DIVISION OF MINERAL RESOURCES
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