

INTERVAL SHEET

Page 1

VDMR WELL NO.: 510

Date 8/9/61

Sample Interval: from 2 to 320

PROP: Henrico Co. Schools

Total Depth 322

COMP: Mitchell

Oil Gas Water X Exploratory

COUNTY: Henrico, (Seven Pines Elementary)

Cuttings X Core Other

From-To	From-To	From-To	WASHED SAMPLES From-To	From-To
2-5	<u>290-300</u>	-	-	-
5-15	<u>300-310</u>	-	Complete set of sampled intervals	-
15-25	<u>310-317</u>	-	-	-
20-30	<u>317-320</u>	-	-	-
30-40	-	-	-	-
40-50	-	-	-	-
50-60	-	-	-	-
60-70	-	-	-	-
70-80	-	-	-	-
80-90	-	-	-	-
<u>90-100</u>	-	-	-	-
100-110	-	-	-	-
110-120	-	-	-	-
120-130	-	-	-	-
130-140	-	-	-	-
140-150	-	-	-	-
150-160	-	-	-	-
160-170	-	-	-	-
170-180	-	-	-	-
180-190	-	-	-	-
<u>190-200</u>	-	-	-	-
200-210	-	-	-	-
210-220	-	-	-	-
220-230	-	-	-	-
230-240	-	-	-	-
240-250	-	-	-	-
250-260	-	-	-	-
260-270	-	-	-	-
270-280	-	-	-	-
280-290	-	-	-	-

OWNER: Henrico Co. Schools
DRILLER: Mitchell
COUNTY: Henrico (Seven Pines Elem.)

W#: 510
C#: 320
TOTAL DEPTH: 320'
QUAD.: Seven Pines

GEOLOGIC LOG

Depth
(feet)

- 0-2 No sample.
- 2-5 Sand — grayish orange; slightly clayey; medium grained to granular, 5% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
- 5-15 Sand — pale yellowish orange; moderate clay; fine to medium grained; subangular to subrounded; well sorted; quartz; feldspar; 2% opaques; few flakes of muscovite.
- 15-25 As above except dark yellowish orange; moderately well sorted; some opaques.
- 20-30 Sand — dark yellowish orange; slightly clayey; medium grained to granular, 3% pebbles; angular to subangular; poorly sorted; quartz; feldspar; some opaques.
- 30-40 Sand and gravel — grayish orange; slightly clayey; medium grained to granular, 40% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
- 40-50 Sand — dark yellowish orange; moderately stained; moderate clay; fine to medium grained; subangular to subrounded; well sorted; quartz; feldspar; 3% opaques; few grains of glauconite; muscovite.
- 50-60 Clay — olive light gray; abundant sand; fine grained to granular, few pebbles; subangular to subrounded; poorly sorted; quartz; 15% ferricrete; few grains of glauconite; few opaques; muscovite.
- 60-70 Clay — light gray, greenish gray, pale yellow; some medium to coarse grained quartz sand; few grains of glauconite.
- 70-80 As above plus few pebbles; few black phosphatic fragments.
- 80-90 Sand — olive light gray; moderate clay-olive light gray, light gray; very fine to medium grained; subangular to rounded; moderately sorted; quartz; 15% glauconite; 5% muscovite; few shell fragments.
- 90-100 Sand — olive gray; moderate clay; very fine to fine grained; subangular to rounded; well sorted; quartz; 30% glauconite; 2% muscovite; some shell fragments; forams rare (inc. Robulus); shark's tooth.

Depth
(feet)

- 100-110 Sand — olive gray; moderate clay; very fine to medium grained; subangular to rounded; moderately well sorted; 55% glauconite; quartz; 2% muscovite; few shell fragments; shark's tooth.
- 110-120 Sand — olive light gray; abundant clay-olive light gray, light gray; very fine to medium grained, few granules; subangular to subrounded; moderately sorted; quartz; 3% glauconite; 2% shell fragments; some muscovite.
- 120-130 Clay — moderate orange pink, light gray; some glauconite; some muscovite; few shell fragments; few grains of quartz.
- 130-140 Clay — light gray, moderate orange pink; abundant sand; very fine to medium grained; subangular to rounded; moderately sorted; quartz; glauconite 20% of sand sized fraction; some muscovite; few shell fragments.
- 140-150 Sand — olive gray; moderate clay; very fine grained; subangular to rounded; well sorted; quartz; 15% glauconite; 2% muscovite; some shell fragments; few black phosphatic fragments.
- 150-160 Sand — olive light gray; slightly clayey; fine to medium grained, some coarse grains, 15% granules, 20% pebbles; subangular to rounded; poorly sorted; quartz; 25% shell fragments; 25% glauconite; few flakes of muscovite; ostracodes; foram.
- 160-170 Sand — light olive gray; abundant clay; fine grained to granular, few pebbles; subangular to rounded; poorly sorted; quartz; 30% glauconite; 10% shell fragments; some black phosphatic material; some muscovite; ostracode.
- 170-180 Sand and granules — off white; very coarse grained, some coarse grains, 40% granules, 5% pebbles; subrounded; moderately sorted; quartz; feldspar; few shell fragments; glauconite.
- 180-190 As above except 5% shell fragments; 3% glauconite.
- 190-200 Sand — dusky yellow; moderate clay; fine to coarse grained, 5% granules; subangular to subrounded; moderately sorted; quartz; feldspar; 10% glauconite; 2% shell fragments.
- 200-210 Clay — yellowish gray; moderate sand; medium to coarse grained, 3% granules; subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.

Depth
(feet)

- 210-220 Sand — white; moderate clay; coarse grained to granular, few pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
- 220-230 As above except coarse to very coarse grained, 10% granules.
- 230-240 Sand — abundant clay; very fine grained to granular, 5% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some muscovite; some biotite.
- 240-250 Sand — off white; moderate clay; coarse to very coarse grained, 10% granules, some pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
- 250-260 Sand — medium light gray; abundant clay; medium to very coarse grained, some fine grains, 7% granules, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; muscovite; few grains of garnet.
- 260-270 As above except off white; moderate clay.
- 270-280 As above plus few grains of glauconite; no garnet.
- 280-290 Sand — white; slightly clayey; medium grained to gravel; subrounded; poorly sorted; quartz; feldspar; few grains of glauconite; muscovite; garnet.
- 290-300 Sand — dusky yellow; abundant clay; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 300-310 Sand — off white; moderate clay; coarse grained to granular, some medium grains, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite.
- 310-317 As above.
- 317-320 As above except 3% pebbles; few grains of garnet.

Logged by: Michael T. Currie

OWNER: Henrico Co. Schools
(Seven Arches Elem.)

W#510

GEOLOGIC SUMMARY

<u>Depth</u> (feet)	<u>Thickness</u> (feet)	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-2	2	No Sample	
2-40	38	Columbia Group	Pleistocene
40-50	10	"	"
50-80	30	Calvert Formation	Miocene-Eocene
80-120	40	Nanjemoy Formation	Eocene
120-140	20	Marlboro Clay	Eocene
140-170	30	Mattaponi Formation	Eocene-Cretaceous
170-320	150	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
December 12, 1978

Do Not Type