W-4499
C- 186

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: Greensway Construction Co. P. D. Green — Mailing Address: P. O. Box 661 Hopewell, Va. 23860

TENANT: _____ — Mailing Address: _____

DRILLER: J. J. Mitchell, Jr. — Mailing Address: 16815 Happy Hill Rd. Colonial Heights, VA. 23834

WELL LOCATION: County Prince George — Approx. _____ feet miles _____ (direction) of On corner Rt. 10 & 641

about 4 miles out of Hopewell and _____ feet miles _____ (direction) of _____

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: July 1975 — DATE COMPLETED: July 1975

TYPE OF DRILL RIG USED: cable tool — TOTAL DEPTH 207 feet

WATER LEVEL: Stands 110 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pumped

Drawdown _____ feet

Rate 20 gal. per min.

Duration 6 hrs., _____ min.

WATER ZONES: from 197 to 207 feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other business

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: 21 Yes X No _____

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

HOLE SIZE: 6 inches from 0 to 12+ feet

4 inches from 12+ to 207 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 4 inches from 197 to 207 feet with 10' blank above

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 4 inches from 0 to 194'10" feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method Poured in

Material Cement, sand & gravel Depth 12+ feet

PUMP: Type _____

Capacity _____ gal per min

Depth of intake _____ feet

REMARKS: _____

(LOG OF WELL) OVER

LOG

FURNISHED BY: _____ DATE: _____

DEPTH (feet) FROM	DEPTH (feet) TO	TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
0	10	Tan dirt	
10	20	Tan dirt & gravel	
20	30	Ditto	
30	60	Blue mud & shell fragments	
60	70	Gray mud	
70	80	Gray dirt	
80	90	Shell fragments-gray dirt	
90	100	Dark gray dirt-shell fragments	
100	120	Dark gray dirt-shell fragments	
120	130	Light gray dirt-shell fragments	
130	140	Brown mud	
140	150	Dark gray dirt-shell fragments	
150	160	Gray dirt-shell fragments	
160	180	Dark gray dirt-shell fragments	
180	190	Gray sand & gravel	
190	207	Gray sand	

(Use additional forms if necessary)

VIRGINIA DIVISION OF MINERAL RESOURCES
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

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Well Repository No: W-4499
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Date rec'd: 11/18/75 Date Processed:11/9/76

Sample Interval: from: 0 to: 207'

PROPERTY: Greensway Construction Co.

Number of samples: 21

COMPANY: Mitchell's Well & Pump Co.

Total Depth: 207;

COUNTY: Prince George (Hopewell)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
200 - 207	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Both washed and unwashed samples.

OWNER: Greensway Const. Co.
DRILLER: Mitchell's W & P Co.
COUNTY: Prince George
(Hopewell)

W#: 4499
C#: 186
TOTAL DEPTH: 207'

GEOLOGIC LOG

Depth (feet)	
0-10	Sand — dark yellowish orange; moderate clay; fine to coarse grained, subangular to subrounded; moderately sorted; quartz; some feldspar; few opaques.
10-20	Sand — dark yellowish orange; moderate clay; medium to coarse grained; some fine grains, 10% granules, 10% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
20-30	Sand — dark yellowish orange; moderate clay; medium grained to granular, 15% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
30-40	Clay — olive light gray, dark yellowish orange; moderate sand; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; 3% shell fragments; some black phosphatic material; few grains of glauconite.
40-50	Clay — light gray; slightly sandy; coarse grained; subrounded; well sorted; quartz; 2% shell fragments; few black phosphatic fragments; few spines; few grains of glauconite; ostracodes; forams scarce (inc. Textularia).
50-60	Clay — light gray; slightly sandy; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; some shell fragments; few black phosphatic fragments; spines.
60-70	Clay — light gray; some black phosphatic material; few grains of quartz; ostracodes; few shell fragments; forams rare (inc. Discorbis).
70-80	Sand — light gray; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some black phosphatic material; some shell fragments; spines; foram.
80-90	Sand — light gray; moderate clay; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; 7% shell fragments; 2% black phosphatic material; spines; few grains of glauconite.
90-100	Sand — dark grayish olive; slightly clayey; medium grained, some coarse grains; subangular to rounded; moderately well sorted; quartz; 35% glauconite; 5% shell fragments; 2% muscovite; few spines; few black phosphatic fragments; foram.

Depth (feet)	
100-110	Sand — dark grayish olive; moderate clay; medium grained, some coarse grains, few granules; subrounded to rounded; moderately well sorted; 60% glauconite; quartz; 3% shell fragments; few spines; forams (inc. Robulus).
110-120	Clay and sand — dark grayish olive; abundant clay; moderate sand; medium grained, some coarse grains; rounded; well sorted; glauconite 80% of sand sized fraction; quartz; 2% shell fragments; muscovite; forams rare (inc. Robulus).
120-130	Clay — light gray, dark yellowish orange; few grains of glauconite; few grains of quartz; few shell fragments.
130-140	Clay — moderate orange pink; some limestone fragments; few grains of glauconite; muscovite; pyrite.
140-150	Sand — dark grayish olive; slightly clayey; very fine to medium grained; subangular to rounded; moderately well sorted; 60% glauconite; quartz; some muscovite; few shell fragments.
150-160	Sand — medium light gray; abundant clay; fine to medium grained; subangular to rounded; moderately well sorted; 60% glauconite; quartz; 7% shell fragments; some muscovite.
160-170	Sand — dark grayish olive; moderate clay; medium grained; rounded; well sorted; 75% glauconite; quartz; 2% shell fragments; muscovite.
170-180	Sand and clay — olive light gray; moderate clay; abundant sand; medium to coarse grained, few granules; subrounded to rounded; moderately well sorted; glauconite 60% of sand sized fraction; quartz; 10% shell fragments; forams rare (inc. Discorbis).
180-190	Sand —salt and pepper; medium grained to granular, few pebbles; subrounded to rounded; moderately sorted; quartz (some stained green); 30% glauconite; feldspar; some garnet; few shell fragments.
190-200	Sand — white; coarse grained to granular; subrounded; moderately well sorted; quartz; feldspar; some glauconite.
200-207	Sand — white; medium to very coarse grained, some fine grains, some granules; subangular to subrounded; poorly sorted; quartz; feldspar; 5% glauconite.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Rock Unit	Time Rock Unit
0-30	30	Moorings "Unit"	Pleistocene
30-90	60	Calvert Formation	Miocene-Eocene
90-140	50	Nanjemoy Formation	Eocene
140-180	40	Mattaponi Formation	Eocene-Cretaceous
180-207	27+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
August 16, 1978