W#: 4840
C#: 201

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS: B[illegible]3667 C[illegible]lottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

WATER WELL COMPLETION REPORT

OFFICE ADDRESS: McCormick Road Charlottesville, Virginia

OWNER: Greensway Construction Co. S. H. Barnhart, Jr. 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 Permit #P7739 On Rt. 641 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: Feb. 1977 DATE COMPLETED: Feb. 1977

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 220 feet

WATER LEVEL: Stands 119 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pumped

Drawdown 149'2" feet pump pipe used, took no air

Rate 18 gal. per min.

Duration 6 hrs., _____ min.

WATER ZONES: from _____ to _____ feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home X

Farm _____ Town _____ School _____

Industry _____ Other _____

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: 22 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: 7 inches from 0 to 12 feet

4 inches from 12 to 220 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 4 inches from +1 to 211'6" feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method _____

Material _____ 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	Orangeish dirt	
10	20	Orange dirt	
20	30	Ditto	
30	90	Gray mud & shell fragments	
90	130	Dark gray & shell fragments	
130	160	Gray & tan mud	
160	180	Dark gray & shell fragments	
180	220	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#: 4840
C#: 201

Date rec'd: 4-26-77 Date Processed: 8-9-77

Sample Interval: from: 0 to: 220'

PROPERTY: Greensway Const. Co.
(S. H. Barnhart, Jr.)

Number of samples: 22

COMPANY: Mitchell W & P Co.

Total Depth: 220'

COUNTY: Prince George (Garysville)

Oil or Gas: Water: X 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 - 210	-	-	-
210 - 220	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed & unwashed samples

OWNER: Greenway Const. Co.
(S. H. Barnhart, Jr.)
DRILLER: Mitchell W & P Co.
COUNTY: Prince George (Garysville)

W#: 4840
C#: 201
TOTAL DEPTH: 220'

GEOLOGIC LOG

Depth (feet)	
0-10	Sand — pale yellowish orange; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; some feldspar; few opaques.
10-20	Sand — dark yellowish orange; moderately stained; moderate clay; medium grained to granular, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.
20-30	Sand — dark yellowish orange; slightly stained; moderate clay; fine to medium grained, some coarse grains, some granules, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques; few grains of glauconite.
30-40	Clay — olive light gray; some shell fragments; few black phosphatic fragments; few grains of glauconite; few rounded quartz grains.
40-50	Clay — olive light gray; slightly sandy; fine to medium grained; subangular to rounded; moderately sorted; quartz; 7% shell fragments; some glauconite; some black phosphatic material; some spines.
50-60	Clay — olive light gray, reddish brown; slightly sandy; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 10% shell fragments; some black phosphatic material; some glauconite; spines.
60-70	Clay — olive light gray; moderate sand; fine to medium grained, some coarse grains; subangular to rounded; moderately well sorted; quartz; 7% shell fragments; some black phosphatic material; some glauconite; few spines; ostracode.
70-80	Sand — very light gray; slightly clayey; fine to medium grained; subangular to subrounded; well sorted; quartz; 5% glauconite; 3% black phosphatic material; some shell fragments; some spines; forams rare (inc. Robulus).
80-90	Sand — olive light gray; moderate clay; fine to medium grained; subangular to rounded; well sorted; quartz; 20% glauconite; (black green, brown); 2% shell fragments; spines; forams (inc. Robulus).
90-100	As above except moderately well sorted; 35% glauconite; no Robulus.

Depth (feet)	
100-110	Clay — olive light gray; moderate sand; fine to medium grained; sub-rounded to rounded; moderately well sorted; quartz; glauconite 30% of sand sized fraction; 3% muscovite; some shell fragments; pyrite.
110-120	Sand — olive gray; moderate clay; fine to medium grained, some coarse grains; subangular to rounded; moderately well sorted; quartz; 40% glauconite (black, green); 3% shell fragments; some muscovite; pyrite; forams rare (inc. Robulus).
120-130	Clay — olive light gray; moderate sand; very fine to medium grained; subangular to rounded; moderately sorted; glauconite 70% of sand sized fraction; quartz; 3% shell fragments; 2% muscovite; few spines.
130-140	Clay — light-gray, light grayish orange; some glauconite; some pyrite; few grains of quartz; muscovite.
140-150	Sand — olive light gray; abundant clay-olive light gray, light gray,' light grayish orange; fine to medium grained; subangular to rounded; moderately sorted; quartz; 25% glauconite; some muscovite; forams (inc. Robulus and Nodosaria).
150-160	As above except 35% glauconite; ostracodes.
160-170	Sand — olive light gray; moderate clay-olive light gray, light gray, fine to medium grained; subangular to rounded; moderately well sorted; quartz; 30% glauconite (black, green); 20% reworked shell fragments; foram.
170-180	As above except 40% glauconite (black, green, brown); 7% shell fragments; pyrite.
180-190	Sand — white; coarse grained, some granules; subrounded; moderately well sorted; quartz; feldspar; 2% glauconite; some garnet; pyrite.
190-200	Sand — salt and pepper; medium to coarse grained, some granules; subrounded; moderately sorted; quartz; feldspar; 5% glauconite (black, green); some garnet; pyrite.
200-210	Sand — white; fine to coarse grained, some granules; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite; muscovite; garnet.
210-220	Sand — off white; slightly clayey; very coarse grained to granular, some coarse grains, few pebbles; subrounded; moderately well sorted; quartz; feldspar.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Rock Unit	Time Rock Unit
0-30	30	Moorings "Unit"	Pleistocene
30-70	40	Calvert Formation	Miocene-Eocene
70-140	70	Nanjemoy Formation	Eocene
140-180	40	Mattaponi Formation	Eocene-Cretaceous
180-220	40+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
September 11, 1978