

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 4502
C# 187

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

Warren Molaison

OWNER: Greensway Construction Co.

Mailing Address:

TENANT:

Mailing Address:

23834

DRILLER: J. J. Mitchell, Jr.

Mailing Address: 16815 Happy Hill Rd. Col. hgts. VA.

WELL LOCATION: County Prince George
Rt. 641

Approx. 3/4 miles State Rd. 693 (direction) of
feet and miles west (direction) of Rt. 693

(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 162 feet

WATER LEVEL: Stands 60 feet below surface

OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pumped

HOLE SIZE: 6 inches from 0 to 12 feet

Drawdown _____ feet

4 inches from 12 to 162 feet

Rate 18 gal. per min.

_____ inches from _____ to _____ feet

Duration 20 hrs., _____ min.

SCREEN SIZE: _____ inches from _____ to _____ feet

WATER ZONES: from _____ to _____ feet

_____ inches from _____ to _____ feet

from _____ to _____ feet

_____ inches from _____ to _____ feet

from _____ to _____ feet

CASE SIZE: 4 inches from 0 to 158'10" feet

WATER: Color _____ Taste _____

_____ inches from _____ to _____ feet

Odor _____ Temp. _____ °F

_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home

GROUTING: Method _____

Farm _____ Town _____ School _____

Material _____ Depth _____ feet

Industry _____ Other _____

PUMP: Type _____

WATER ANALYSIS AVAILABLE: Yes _____ No _____

Capacity _____ gal per min

DRILL CUTTINGS SAVED: Yes No _____

Depth of intake _____ feet

(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.)

REMARKS: _____

LOG

FURNISHED BY: _____

DATE: _____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	10	brownish soil	1
10	20	Ditto	2
20	30	gray mud	3
30	40	gray mud - shell fragments	4
40	50	grayish dirt	5
50	60	dark gray dirt	6
60	70	Ditto	7
70	80	light brownish dirt	8
80	90	tan & gray dirt - shell fragments	9
90	100	dark gray dirt - shell fragments	10
100	110	Ditto	11
110	120	Ditto	12
120	130	black dirt - shell fragments	13
130	140	grayish sand & gravel	14
140	162	fine gray sand & gravel	15 & 16

(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-4502
C- 187

Date rec'd: 11/18/75 Date Processed: 11/9/76

Sample Interval: from: 0 to: 162'

PROPERTY: Greensway Construction Co., (Molaison)

Number of samples: 16

COMPANY: Mitchell's Well & Pump Co.

Total Depth: 162'

COUNTY: Prince George

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 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 62	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed & unwashed samples

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

W#: 4502
C#: 187
TOTAL DEPTH: 162'

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand — moderate yellowish brown; slight staining; coarse grained to granular; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 10-20 As above plus few opaques.
- 20-30 Clay — olive light gray; moderate sand; medium to very coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; few black phosphatic fragments.
- 30-40 Sand — dark grayish olive; abundant clay; very fine to medium grained; subangular to rounded; moderately well sorted; quartz; 40% glauconite; some muscovite; some shell fragments.
- 40-50 Sand — light olive brown; slightly clayey; very fine grained to granular; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite.
- 50-60 Clay — olive light gray; slightly sandy; medium grained, few granules; subangular to rounded; moderately well sorted; glauconite 80% of sand sized fraction; quartz; muscovite; some black phosphatic material; few shell fragments; foram.
- 60-70 Clay — light gray, very light gray; slightly sandy; medium grained; rounded; well sorted; glauconite 90% of sand sized fraction; quartz; muscovite; pyrite.
- 70-80 Clay — moderate orange pink; few grains of glauconite; muscovite; pyrite.
- 80-90 Clay — light gray, moderate orange pink; moderate sand; fine to medium grained; rounded; moderately well sorted; glauconite 80% of sand sized fraction; quartz; some muscovite; some shell fragments; forams (inc. Robulus and Nodosaria).
- 90-100 Clay — light olive gray, very light gray; abundant sand; fine to medium grained; rounded; moderately well sorted; glauconite 90% of sand sized fraction; quartz; muscovite; forams common (inc. Robulus and Nodosaria).
- 100-110 Clay — olive light gray; silty; abundant sand; very fine to medium grained; subangular to rounded; moderately sorted; 50% glauconite; quartz; 3% shell fragments; muscovite; forams scarce (inc. Robulus).

OWNER: Greensway Const. Co. -2-
(Molaison)

W#: 4502

Depth
(feet)

- 110-120 As 100-110' except no Robulus.
- 120-130 As above except 65% glauconite; ostracodes.
- 130-140 Sand — salt and pepper; medium grained to granular, some fine grains, some pebbles; angular to rounded; poorly sorted; quartz; 30% glauconite; some feldspar; few shell fragments; few grains of garnet.
- 140-150 Sand — white; medium to very coarse grained, 10% granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; 5% glauconite; few grains of garnet.
- 150-162 Sand — white; medium to very coarse grained, 5% granules; subangular to subrounded; moderately sorted; quartz; feldspar; 3% glauconite.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-20	20	Moorings "Unit"	Pleistocene
20-30	10	Calvert Formation	Miocene-Eocene
30-90	60	Nanjemoy Formation	Eocene
90-130	40	Mattaponi Formation	Eocene-Cretaceous
130-162	32 *	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
August 17, 1978