

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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

OWNER: J. R. Byrd Mailing Address: Rt. #2, Box 90
Suburban Water Supply Co. McKenney, VA. 23872

TENANT: Rivers Edge Well #2 Mailing Address: _____

DRILLER: Mitchell's Well & Pump Co., Inc. Mailing Address: Rt. #1, Box 110
Col. Hgts., Va. 23834

WELL LOCATION: County Prince George Approx. 5 ^{1/2} miles from Hopewell on (direction) of _____
Rt. #10 going South towards Surry Courthouse,
next subdivision after Beechwood Manor, feet _____ (direction) of _____
miles _____

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

DATE STARTED: September 1973 DATE COMPLETED: September 1973

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 215 feet

WATER LEVEL: Stands 105 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pumped
Drawdown 135 feet
Rate 144 gal. per min.
Duration 24 hrs., _____ min.
continuous

HOLE SIZE: 12 inches from 0 to 50 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 5 inches from 184 to 204 feet
with blank below
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

CASE SIZE: 6 inches from _____ to 191'1" feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry _____ Other Subdivision

GROUTING: Method Pumped under pressure
Material Cement & water Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____
22

PUMP: Type Submersible
Capacity _____ gal per min
Depth of intake _____ feet

DRILL CUTTINGS SAVED: 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.)

REMARKS: Well #2

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

INTERVAL SHEET

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Well Repository No: W-4061
 C- 179
 Sample Interval: from: 0 to: 215

Date rec'd: 1/17/74 Date Processed: 11/19/74

PROPERTY: J. Byrd Suburban Water Supply Co.
 (River Edge Sub. #27)

Number of samples: 22

COMPANY: Mitchell's Well & Pump Co.

Total Depth: 215

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 -210	-	-	-
210 -215	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

1 intervals have both washed & unwashed samples.

OWNER: J. Byrd Suburban Water Supply Co. W#: 4061
(River Edge Sub. #2) C#: 179
DRILLER: Mitchell's W & P Co. TOTAL DEPTH: 215'
COUNTY: Prince George (Hopewell)

GEOLOGIC LOG

Depth (feet)

MOORINGS "UNIT" (0-20')

0-10 Sand — grayish orange; moderate clay; fine to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.

10-20 Sand — grayish orange; slightly clayey; medium to very coarse grained, some fine grains, some granules; subrounded; moderately sorted; quartz; feldspar; some black phosphatic material; few grains of glauconite; few shell fragments.

CALVERT FORMATION (20-60')

20-30 Clay — light olive gray, dark yellowish orange; few black phosphatic fragments; few grains of glauconite; few shell fragments; forams (inc. Buccella).

30-40 Sand — dusky yellow; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 7% shell fragments; 2% glauconite; spines; some black phosphatic material; forams (inc. Amphistegina).

40-50 Shell hash — dusky yellow, gray; moderate sand; medium to coarse grained; subangular to subrounded; moderately well sorted; 70% shell fragments; quartz; 3% spines; ostracodes abundant; some black phosphatic material; some glauconite; forams (inc. Buccella, Textularia, and Robulus).

50-60 Sand — yellowish gray; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 3% glauconite; spines; black phosphatic material; forams (inc. Robulus); ostracodes.

NANJEMOY FORMATION (60-120')

60-70 Sand and gravel — light olive gray; slightly clayey; fine grained to gravel; subangular to rounded; poorly sorted; quartz; 10% shell fragments; 7% glauconite; few black phosphatic fragments; spines; forams scarce (inc. Robulus).

70-80 Sand — olive light gray; moderate clay; fine to medium grained, few granules; subangular to rounded; well sorted; quartz; 25% glauconite; some shell fragments; spines.

80-90 Clay — olive light gray; moderate sand; medium grained, some granules, few pebbles; subrounded to rounded; moderately sorted; 50% glauconite; quartz; muscovite; shell fragments; few spines.

OWNER: J. Byrd Suburban Water Supply Co.-2-
(River Edge Sub. #2)

W#: 4061

Depth (feet)

- 90-100 Clay — olive light gray; moderate sand; very fine to medium grained, few granules, some pebbles; subangular to rounded; poorly sorted; quartz; 20% glauconite; muscovite; some shell fragments.
- 100-110 Clay — light brown and light olive gray; moderate sand; fine to coarse grained, some granules, 20% pebbles; subangular to rounded; poorly sorted; quartz; 30% glauconite; some large sandy limestone fragments; few shell fragments; muscovite.
- 110-120 Clay — olive light gray and light brown; moderate sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 35% glauconite; shell fragments; ostracodes.

MATTAPONI FORMATION (120-160')

- 120-130 Sand — greenish gray; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 45% glauconite; some muscovite; few shell fragments; ostracode.
- 130-140 Clay — light olive gray and light brown; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; 60% glauconite; quartz; some muscovite.
- 140-150 Sand — light olive gray and light brown; moderate clay; medium grained; rounded; well sorted; 70% glauconite; quartz; 15% shell fragments; foram.
- 150-160 Sand — light olive gray; abundant clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 25% glauconite; 10% shell fragments.

PATUXENT FORMATION (160-215')

- 160-170 Sand — white; very coarse grained to granular, some coarse grains; subrounded; moderately well sorted; quartz; feldspar; some glauconite.
- 170-180 Sand — white; coarse to very coarse grained, some granules; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 180-190 As above except some medium grains; some glauconite.
- 190-200 Sand — white; coarse grained to granular, some medium grains; subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
- 200-210 As above except coarse to very coarse grained, 10% granules; moderately well sorted.
- 210-215 As above.

Logged by: Michael T. Currie

OWNER: J. Byrd Suburban Water Supply Co. -2-
(River Edge Sub. #2)

W#: 4061

GEOLOGIC SUMMARY

Thickness
(feet)

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
20	Moorings "Unit"	Pleistocene
40	Calvert Formation	Miocene-Eocene
60	Nanjemoy Formation	Eocene
40	Mattaponi Formation	Eocene-Cretaceous
55+	Patuxent Formation	Cretaceous

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