

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Bogese Construction Co., Inc. Mailing Address: 15th & Elm St. Hopewell, Va. 23860

TENANT: Beechwood Manor #2 Mailing Address: 16815 Happy Hill Rd.

DRILLER: J. J. Mitchell, Jr. Mailing Address: Colonial Heights, VA. 23834

WELL LOCATION: County Prince George Approx. 4 ~~xxx~~ miles East (direction) of

Hopewell at Rt. 10 and _____ feet _____ (direction) of and Beaver Castle Rd.

Sec. 7, Blk. 3, Lot 8A.
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: Jan. 1975 DATE COMPLETED: Feb. 1975

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 318 feet

WATER LEVEL: Stands 67 feet below surface OR
has NATURAL flow of _____ gallons per minute

YIELD TEST: Method pumped

Drawdown 180 feet

Rate 171 gal. per min.

Duration 24 hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 50 feet

6 inches from 50 to 318 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 5 inches from 297 to 307 feet

WATER ZONES: from 276 to 286 feet

from 297 to 307 feet

from _____ to _____ feet

5 inches from 276 to 286 feet

_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

CASE SIZE: 6 inches from 0 to 276 feet

5 inches from 286 to 297 feet

_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

GROUTING: Method _____

Material _____ Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

Capacity _____ gal. per min

DRILL CUTTINGS SAVED: 32 Yes X 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: _____

COMMONWEALTH OF VIRGINIA

LOG

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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	Gray to tan dirt	
10	20	Orangeish dirt	
20	30	Tan dirt	
30	40	Dark gray dirt	
40	50	Gray dirt	
50	70	Dark gray dirt-shell fragments	
70	80	Tan dirt	
80	140	Dark gray dirt-shell fragments	
140	150	Dark gray dirt-small gravel	
150	180	Gray & tan gravel	
180	190	Gray & brownish dirt	
190	200	Dark gray dirt	
200	318 1/2	Sand & gravel-grayish	
		#2 well for Beachwood Manor Backfilled with gravel to 307'	

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

INTERVAL SHEET

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Well Repository No: W-4351

C- 184

Date rec'd: 4/28/75 Date Processed: 2/6/76

Sample Interval: from:0to:318'

PROPERTY: Bogese Construction Co.
(Subdivision)

Number of samples: 32

COMPANY: Mitchell

Total Depth: 318'

COUNTY: Prince George (Hopewell)

Oil or Gas: Water: XExploratory:

From-To	From-To	From-To	From-To
0_ 10	250 _ 260	-	-
10_ 20	260 _ 270	-	-
20_ 30	270 _ 280	-	-
30_ 40	280 _ 290	-	-
40_ 50	290 _ 300	-	-
50_ 60	300 _ 318	-	-
60_ 70	310 _ 318	-	-
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	-	-	-
220_ 230	-	-	-
230_ 240	-	-	-
240_ 250	-	-	-

Both washed and unwashed samples.

OWNER: Bogese Const. Co.
(Subdivision)
DRILLER: Mitchell
COUNTY: Prince George (Hopewell)

W#: 4351
C#: 184
TOTAL DEPTH: 318'

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand — pale yellowish brown; moderate clay; medium grained, some fine grains, some coarse grains; subangular to subrounded; moderately well sorted; quartz; some feldspar; some opaques.
- 10-20 Sand — dark yellowish orange; slightly stained; slightly clayey; fine to medium grained, some granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% opaques; muscovite.
- 20-30 Sand — grayish orange; abundant clay; very fine to fine grained, some medium grains, some coarse grains, few granules; subangular to subrounded; moderately sorted; quartz; 3% shell fragments; 2% black phosphatic material; spines; some glauconite.
- 30-40 Sand — dark grayish green; moderate clay; very fine to fine grained; subangular to rounded; moderately well sorted; 60% glauconite; quartz; 3% shell fragments; ostracodes; foram; bone fragment.
- 40-50 Sand — olive light gray; abundant clay; fine to medium grained some coarse grains; subangular to rounded; moderately sorted; 40% glauconite; quartz; 25% shell fragments; forams very abundant (inc. Buccella, Robulus, Dentalina, Textularia, Nonion, and Guttulina); spines.
- 50-60 Clay and sand — grayish olive; abundant clay; moderate sand; medium grained; rounded; well sorted; glauconite 80% of sand sized fraction; quartz; 3% shell fragments; spines; pyrite; ostracodes; forams (inc. Robulus); muscovite.
- 60-70 Clay — olive light gray; slightly sandy; fine to medium grained; rounded; moderately well sorted; muscovite; glauconite; some quartz; some shell fragments; ostracode.
- 70-80 Clay — moderate orange pink, light gray; slightly sandy; fine to medium grained; subrounded to rounded; moderately well sorted; glauconite 85% of sand sized fraction; quartz; few black phosphatic fragments.
- 80-90 Clay — olive light gray; slightly sandy; fine to medium grained; rounded; moderately well sorted; glauconite 90% of sand sized fraction; muscovite; quartz; forams rare (inc. Robulus).

Depth
(feet)

- 90-100 Sand — dark grayish green; abundant clay; medium grained; rounded; well sorted; 90% glauconite; 5% shell fragments inc. gastropod; quartz; muscovite.
- 100-110 Sand — olive light gray; moderate clay; very fine to medium grained; subangular to rounded; moderately well sorted; 50% glauconite; quartz; 20% shell fragments.
- 110-120 Clay and sand — olive light gray; abundant clay-gray, moderate orange pink; moderate sand; fine to medium grained; rounded; moderately well sorted; glauconite 70% of sand sized fraction; quartz; 3% shell fragments; forams (inc. Robulus).
- 120-130 Clay — olive light gray, light gray, moderate orange pink; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; glauconite 60% of sand sized fraction; quartz; some shell fragments; forams (inc. Robulus).
- 130-140 Clay — light olive gray; moderate sand; fine to coarse grained; subrounded to rounded; moderately sorted; glauconite 70% of sand sized fraction; quartz; 20% shell fragments; muscovite.
- 140-150 Clay — olive light gray; slightly sandy; moderate gravel; medium grained to gravel; subrounded; poorly sorted; quartz; some glauconite; few grains of feldspar; pyrite.
- 150-160 Sand — white; coarse to very coarse grained, some granules; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 160-170 As above except coarse grained to granular, 5% pebbles; moderately sorted.
- 170-180 Sand — white; coarse to very coarse grained, some medium grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; pyrite.
- 180-190 Clay — light brown, grayish yellow; moderate sand; medium grained to granular, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar.
- 190-200 Clay — medium gray; moderate sand; very coarse grained to granular; subrounded; moderately well sorted; quartz; feldspar.
- 200-210 Sand — white; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar.

Depth
(feet)

- 210-220 Sand — white; fine to coarse grained, few granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; 3% glauconite; few grains of garnet.
- 220-230 Sand — white; medium to very coarse grained, 10% granules; subangular to subrounded; moderately sorted; quartz; feldspar.
- 230-240 As above plus few pebbles.
- 240-250 Sand — white; coarse grained to granular; subrounded; moderately well sorted; quartz; feldspar.
- 250-260 As above plus few pebbles.
- 260-270 Sand — white; medium to very coarse grained; subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 270-280 Sand — white; coarse grained to granular, some medium grains, some pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
- 280-290 As above except no pebbles.
- 290-300 As above except some garnet.
- 300-310 Sand — white; coarse grained to granular, 5% pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
- 310-318 As above except 7% pebbles.

Logged by: Michael T. Currie

OWNER: Bogese Const. Co.
(Subdivision)

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W#: 4351

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Thickness (feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-20	20	Bacons Castle Formation	Pleistocene
20-30	10	Calvert Formation	Miocene-Eocene
30-90	60	Nanjemoy Formation	Eocene
90-150	60	Mattaponi Formation	Eocene-Cretaceous
150-318	168+	Patuxent Formation	Cretaceous

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