

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
B-3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: New Kent County Mailing Address: New Kent, VA. 23124

TENANT: Town of New Kent Mailing Address: _____
Rt. 2, Box 125

DRILLER: W. H. Gammon Mailing Address: Providence Forge, VA. 23140

WELL LOCATION: County New Kent Approx. 200 ^{feet} ~~XXXX~~ south (direction) of _____
Rt. 249 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: 8-6-75 DATE COMPLETED: 8-15-75

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 419 feet

WATER LEVEL: Stands 175 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible pump
Drawdown 20 feet
Rate 60 gal. per min.
Duration 48 hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 419 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER ZONES: from 392 to 412 feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 4 inches from 392 to 412 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

CASE SIZE: 4 inches from 0 to 392 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

GROUTING: Method _____
Material _____ Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

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

DRILL CUTTINGS SAVED: 20 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: _____

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	28	Clay and red sand	
28	49	Clay and small gravel	
49	70	Sand & gravel	
70	91	Sand & gravel	
91	112	Gravel shells & blue sand	
112	133	Shell & blue sand	
133	153	Shells & blue sand	
153	174	Shell & blue mud	
174	194	Shells, gravel, blue & green mud	
194	215	Hard shells gray mud blue rock	
215	235	Blue rock black & white sand	
235	256	Blue rock salt & pepper sand	
256	277	Black sand black & blue mud	
277	298	Blue mud & red mud	
298	319	Blue mud green mud	
319	339	Black mud & black sand	
339	359	Black sand & mud	
359	379	Black sand & sand clay	
379	399	Sand clay & sand	Water
399	419	Sand, sand clay & green mud	Water

(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#: 4457

Date rec'd: 11/18/75 Date Processed: 8/12/76

C#: 85
 Sample Interval: from: 0 to: 419

PROPERTY: New Kent County
 (Town of New Kent)

Number of samples: 20

COMPANY: W. H. Gammon

Total Depth: 419'

COUNTY: New Kent (New Kent)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 28	256 - 277	-	-
-	-	-	-
28 - 49	277 - 298	-	-
-	-	-	-
49 - 70	298 - 319	-	-
-	-	-	-
-	319 - 339	-	-
70 - 91	-	-	-
-	339 - 359	-	-
91 - 112	-	-	-
-	359 - 379	-	-
112 - 133	-	-	-
-	379 - 399	-	-
133 - 153	-	-	-
-	399 - 419	-	-
153 - 174	-	-	-
-	-	-	-
174 - 194	-	-	-
-	-	-	-
194 - 215	-	-	-
-	-	-	-
215 - 235	-	-	-
-	-	-	-
-	-	-	-
235 - 256	-	-	-

ashed & unwashed samples

OWNER: New Kent County Courthouse
DRILLER: W. H. Gammon
COUNTY: New Kent

W#: 4457
C#: 85
TOTAL DEPTH: 419'
QUAD.: New Kent

GEOLOGIC LOG

Depth
(feet)

- 0-28 Sand — dark yellowish orange; moderately stained; slightly clayey; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; some opaques.
- 28-49 Sand — grayish orange; slightly clayey; fine to coarse grained, some very fine grains, some granules, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.
- 49-70 Sand — pale yellowish orange; slightly clayey; fine to coarse grained (some heavily stained grains); subangular to subrounded; moderately sorted; quartz; feldspar; some shell fragments; some black phosphatic material; few grains of glauconite; few opaques; few spines.
- 70-91 Sand — light grayish orange; slightly clayey; fine to coarse grained (few heavily stained grains); subangular to subrounded; moderately sorted; quartz; 5% shell fragments; few grains of glauconite; few black phosphatic fragments; few spines; bone fragment.
- 91-112 Sand — light olive gray; slightly clayey; fine grained, some very coarse grains; subangular to subrounded; moderately well sorted; quartz; 25% sandy limestone and shell fragments; feldspar; some black phosphatic material; few grains of glauconite; few bone fragments.
- 112-133 As above plus few granules.
- 133-153 Coquina — olive light gray; slightly clayey; moderate sand; very fine to medium grained, few granules; subangular to subrounded; moderately well sorted; 90% sandy limestone and shell fragments; quartz; few grains of glauconite; few black phosphatic fragments.
- 153-174 As above except 75% sandy limestone and shell fragments; some muscovite; bone fragment.
- 174-194 Sand — light olive gray; slightly clayey; very fine to medium grained, few granules; subangular to subrounded; moderately sorted; quartz; 2% black phosphatic material; some shell fragments; few sandy limestone fragments.

Depth
(feet)

- 194-215 Sand — olive light gray; slightly clayey; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; 25% shell fragments; some black phosphatic material; few spines; few bone fragments; forams scarce (inc. Quinqueloculina and Buccella).
- 215-235 Sand — light olive gray; slightly clayey; medium to coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; 15% sandy limestone and shell fragments; 5% glauconite; few spines; pyrite.
- 235-256 As above except 12% glauconite (black, brown, green); forams (inc. Buccella and Textularia).
- 256-277 Sand and sandy limestone fragments — olive light gray; slightly clayey; medium to coarse grained, some fine grains; subangular to rounded; moderately well sorted; 40% sandy limestone fragments; glauconite 60% of sand fraction; quartz; some shell fragments; few spines; forams (inc. Discorbis and Globigerina); pyrite.
- 277-298 As above except moderate clay; 3% shell fragments; some muscovite; forams rare (inc. Nodosaria).
- 298-319 Sand — olive gray; moderate clay; medium to coarse grained; rounded; moderately well sorted; 65% glauconite; quartz; 5% sandy limestone and shell fragments; few spines; muscovite; forams (inc. Robulus, Bolivina, and Globulina); pyrite.
- 319-339 Sand — olive gray; abundant clay; fine to medium grained; subangular to rounded; 50% glauconite; quartz; some muscovite; few shell fragments.
- 339-359 Sand — olive gray; slightly clayey; medium grained; subangular to rounded; well sorted; 60% glauconite (black, brown, green); quartz; some sandy limestone and shell fragments; muscovite.
- 359-379 As above.
- 379-399 Sand — salt and pepper; slightly clayey-yellowish gray, moderate pink, white; medium to coarse grained, some granules; subangular to rounded; moderately sorted; quartz; 30% glauconite; feldspar; few shell fragments; muscovite.
- 399-419 Sand — salt and pepper; slightly clayey; medium to coarse grained, some fine grains, some granules; subrounded to rounded; moderately sorted; quartz; feldspar; 25% glauconite; few shell fragments; forams rare (inc. Globigerina).

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GEOLOGIC SUMMARY

<u>Depth</u> (feet)	<u>Thickness</u> (feet)	<u>Rock Unit</u>	<u>Time</u> <u>Rock Unit</u>
0-49	49	Mooring's "Unit"	Pleistocene
49-215	166	Yorktown Formation	Pliocene-Miocene
215-379	164	Nanjemoy Formation	Eocene
379-419	40	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
 David A. Hubbard, Jr., Geologist
 November 6, 1978