

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4228
C#: 173

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B-3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: E.H. Bailey Realty Mailing Address: 17 E. Cary St. Richmond, VA

TENANT: _____ Mailing Address: _____

DRILLER: W.H. Gammon Mailing Address: _____

WELL LOCATION: County Hanover Approx. 3 ^{feet} miles South (direction) of

US. Hwy. 360 and 12 ^{feet} miles Northeast (direction) of Richmond, VA

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

DATE STARTED: 4/15/74 DATE COMPLETED: 4/30/74

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 395 feet

WATER LEVEL: Stands 120 feet below surface OR (well Completed at 382')

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method 50 gal drum

Drawdown _____ feet

Rate 40 gal. per min.

Duration 24 hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 395 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 260 to 270 feet

6 inches from 322 to 332 feet

6 inches from 362 to 372 feet

CASE SIZE: 6 inches from 0 to 260 feet

6 inches from 270 to 322 feet

6 inches from 332 to 362 feet

6 inches from 372 to 382 feet

WATER ZONES: from 260 to 270 feet

from 322 to 332 feet

from 362 to 372 feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

GROUTING: Method pumped

Material cement Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes XX No _____

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DRILL CUTTINGS SAVED: Yes XX No _____

Capacity _____ gal per min
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 OF WELL) OVER

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

INTERVAL SHEET

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Well Repository No: W#: 4228

Date rec'd: 6/13/74 Date Processed: 7/16/75

C#: 173
 Sample Interval: from: 0 to: 370

PROPERTY: E.H. Bailey Realty Sub.

Number of samples: 19

COMPANY: W.H. Gammon

Total Depth: 395'

COUNTY: Hanover
 (Liggon's Cornor)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 20	-	-	-
20 - 30	-	-	-
30 - 50	-	-	-
50 - 70	-	-	-
70 - 90	-	-	-
90 - 110	-	-	-
110 - 130	-	-	-
130 - 150	-	-	-
150 - 170	-	-	-
170 - 190	-	-	-
190 - 210	-	-	-
210 - 230	-	-	-
230 - 250	-	-	-
250 - 270	-	-	-
270 - 290	-	-	-
290 - 310	-	-	-
310 - 330	-	-	-
330 - 350	-	-	-
350 - 370	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

1 intervals have both washed and unwashed samples

OWNER: E.H. Bailey Realty Sub.
DRILLER: W.H. Gammon
COUNTY: Hanover
(Liggon's Corner)

W#: 4228
C#: 173
TOTAL DEPTH: 395'
QUAD: Quinton

GEOLOGIC LOG

Depth
(feet)

- 0 - 20 Sand -- very dark yellowish orange; slightly clayey; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 20 - 30 Sand -- grayish orange; slightly clayey; fine grained to granular, 10% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.
- 30 - 50 As above except grayish orange, light olive gray; some pebbles.
- 50 - 70 As above except fine to coarse grained, 5% granules; 7% pebbles.
- 70 - 90 Clay -- light olive gray, grayish orange; moderate sand; fine to coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; some feldspar; few flakes of muscovite.
- 90 - 110 As above plus few grains of glauconite.
- 110 - 130 Sand -- light olive gray; moderate clay; fine to medium grained, some granules; subangular to rounded; moderately well sorted; quartz; 10% glauconite; 2% shell fragments; some muscovite; few black phosphatic fragments.
- 130 - 150 Clay -- light olive gray; abundant sand; fine to medium grained, some granules, some pebbles; subangular to subrounded; moderately well sorted; quartz; 3% glauconite; 2% shell fragments; some muscovite; few grains of pyrite.
- 150 - 170 Clay -- light olive gray; moderate orange pink; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; glauconite, 7% of sand sized fraction; 2% shell fragments; some muscovite; few black phosphatic fragments.
- 170 - 190 Sand -- olive light gray; abundant clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 20% glauconite; 3% shell fragments; some muscovite; forams rare (inc. Cibicides).
- 190 - 210 Sand -- olive gray; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 30% glauconite; 10% shell fragments; few flakes of muscovite; forams (inc. Robulus).

Depth
(feet)

- 210 - 220 Sand -- light olive gray; moderate clay; fine to coarse grained, 7% granules, 10% pebbles; subangular to rounded; poorly sorted; quartz; feldspar; 15% glauconite; some shell fragments; few flakes of muscovite.
- 230 - 250 Sand -- yellowish gray; medium grained to granular, 5% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 7% glauconite; some shell fragments; few flakes of muscovite.
- 250 - 270 Granules and gravel -- yellowish gray; moderate coarse to very coarse grained sand; subrounded; moderately sorted; quartz; feldspar; 3% glauconite; few flakes of muscovite.
- 270 - 290 As above except poorly sorted.
- 290 - 310 Sand -- light olive gray; moderate clay; medium grained to granular, 7% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 5% glauconite; few flakes of muscovite.
- 310 - 330 As above except slightly clayey.
- 330 - 350 As above except yellowish gray.
- 350 - 370 Sand -- yellowish gray; medium grained to gravel; subangular to subrounded; poorly sorted; quartz; feldspar; 5% glauconite; few flakes of muscovite; garnet.
- 370 - 395 No sample.

Logged by: Michael T. Currie

OWNER: E. H. Bailey Realty Sub

WA# 4228

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-70	70	Columbia Group	Pleistocene
70-130	50	Nanjemo Formation	Eocene
130-170	40	Marlboro Clay	Eocene
170-290	120	Mattaponi Formation	Eocene-Cretaceous
290-370	80	Patuxent Formation	Cretaceous
370-395	25	No Sample	

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
April 6, 1979