

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-5078  
C-193

MAILING ADDRESS:  
Box 3667  
Charlottesville, VA 22903

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

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

OWNER: Totopotomoy Subdivision #5 Mailing Address: Hanover Courthouse  
Hanover, Virginia 23069

TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

DRILLER: Mitchell's Well and Pump Co., Inc. Mailing Address: 16815 Happy Hill Road  
Colonial Heights, Virginia 23834

WELL LOCATION: County Hanover Approx. \_\_\_\_\_ feet \_\_\_\_\_ miles \_\_\_\_\_ (direction) of \_\_\_\_\_  
\_\_\_\_\_ 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: 1975 DATE COMPLETED: 1976

TYPE OF DRILL RIG USED: cable tool TOTAL DEPTH 632 feet

WATER LEVEL: Stands 90 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method pump  
Drawdown 245'4" of pump pipe used feet  
Rate 5 gal. per min.  
Duration 48 hrs., \_\_\_\_\_ min.

HOLE SIZE: 6 inches from 0 to 632 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

CASE SIZE: 6 inches from 0 to 206'6" feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other subdivision

GROUTING: Method \_\_\_\_\_  
Material \_\_\_\_\_ Depth \_\_\_\_\_ feet

WATER ANALYSIS AVAILABLE: Yes X No \_\_\_\_\_  
By: U.S. Dept. Int. G.S. (Water Resources Div.)  
DRILL CUTTINGS SAVED: Yes 63 No \_\_\_\_\_

PUMP: Type \_\_\_\_\_  
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: Screens and casing pulled; well abandoned March, 1977.  
Caliper and gamma ray logs by U.S.G.S.

LOG

FURNISHED BY: J. J. Mitchell, Jr.

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	Tan soil	
10	20	Reddish dirt	
20	30	Reddish dirt	
30	40	Gray red dirt	
40	50	Gray dirt	
50	60	Gray mud and shells	
60	80	Gray mud and shells	
80	90	Reddish-orange dirt	
90	110	Gray mud; shell fragments	
110	140	Gray mud	
140	160	Gray gravel	
160	190	Gray sand	
190	220	Gray and black rock	
220	270	Gray, tan, and black rock	
270	300	Gray, tan, and black rock	
300	310	Black, gray, and tan rock	
310	410	Gray, tan, and black rock	
410	470	Gray and black rock	
470	632	Rock	
		Well abandoned and filled by county March, 1977	

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

INTERVAL SHEET

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Well Repository No.: W-5078

Date rec'd: 03/17/78 Date Processed: 04/13/78

Sample Interval: from 0 to: 632

PROPERTY: Totopotomoy Subdivision #5

Number of samples: 63

COMPANY: Mitchell's Well and Pump Co., Inc.

Total Depth: 632'

COUNTY: Hanover (Poindexters)

Oil or Gas: Water: x Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	300-10	-	-	-
10-20	10-20	-	-	-
20-30	20-30	-	-	-
30-40	30-40	-	-	-
40-50	40-50	-	-	-
50-60	50-60	-	-	-
60-70	60-70	-	-	-
70-80	70-80	-	-	-
80-90	80-90	-	-	-
90-100	90-400	-	-	-
100-10	400-10	-	-	-
10-20	10-20	-	-	-
20-30	20-30	-	-	-
30-40	30-40	-	-	-
40-50	40-50	-	-	-
50-60	50-60	-	-	-
60-70	60-70	-	-	-
70-80	70-80	-	-	-
80-90	80-90	-	-	-
90-200	90-500	-	-	-
200-10	500-10	Washed and unwashed samples		-
10-20	10-20	-	-	-
20-30	20-30	-	-	-
30-40	30-40	-	-	-
40-50	40-50	-	-	-
50-60	50-60	-	-	-
60-70	60-70	-	-	-
70-80	70-80	-	-	-
80-90	80-90	-	-	-
90-300	90-600	-	-	-
-	600-10	-	-	-
-	10-20	-	-	-
-	20-32	-	-	-
-	-	-	-	-
-	-	-	-	-

OWNER : Totopotomoy Subdivision #5                   W#               : 5078  
DRILLER: Mitchell's Well and Pump Co., Inc.       C#               : 193  
COUNTY : Hanover                                   TOTAL DEPTH: 632'  
  QUAD               : Yellow Tavern

GEOLOGIC LOG

Depth  
(feet)

- 0-10       Sand- dusky yellow; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few flakes of biotite.
- 10-20      Sand- dark yellowish-orange; 50% moderately stained grains; slightly clayey; medium grained, some coarse grains; subangular to subrounded; well sorted; quartz; feldspar; few flakes of biotite; few opaques.
- 20-30      Sand- pale reddish-brown; heavily stained; medium to coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few flakes of muscovite; biotite.
- 30-40      Sand- yellowish-gray, light brown; some moderately to heavily stained grains; slightly silty; medium grained, some fine grains, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques; few flakes of muscovite.
- 40-50      Sand and clay- olive light gray, dark yellowish-orange; moderate clay; abundant sand; moderately silty; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; some feldspar (granules); few flakes of muscovite; few opaques.
- 50-60      Clay and sand- olive light gray; abundant clay; moderate sand; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; 25% shell fragments; some black phosphatic material; some glauconite; forams rare (inc. Nonion).
- 60-70      As above except 10% shell fragments; no forams.
- 70-80      As above except 20% shell fragments; few echinoid spines; muscovite.
- 80-90      Sand- dark yellowish-orange; moderately stained; slightly clayey; medium to coarse grained, 7% granules, some pebbles; subangular to subrounded; moderately sorted; quartz; some feldspar; some opaques; few grains of glauconite  
(Note: sample appears to be out of sequence).

Depth  
(feet)

- 90-100 Clay- olive light gray; some quartz sand; some shell fragments; few flakes of muscovite; few black phosphatic fragments; biotite; forams scarce (inc. Buccella).
- 100-110 As above except no biotite; no forams.
- 110-120 As above except slightly silty; few shell fragments.
- 120-130 As above.
- 130-140 Clay- yellowish-gray; some quartz sand; some diatoms; few flakes of biotite.
- 140-150 Gravel- multicolored; 20% granules; angular to subrounded; moderately sorted; quartz; some feldspar.
- 150-160 Sand and granules- multicolored; coarse to very coarse grained, 35% granules, 20% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few black phosphatic fragments; muscovite.
- 160-170 Sand- white; coarse to very coarse grained, some medium grains, some granules; angular to subrounded; moderately well sorted; quartz; feldspar; few flakes of muscovite.
- 170-180 Sand- white; medium to very coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite; few black phosphatic fragments; few grains of garnet; few opaques; biotite.
- 180-190 Sand- white; coarse to very coarse grained, 2% granules; subangular to subrounded; moderately well sorted; quartz; feldspar (some highly weathered); 5% biotite; few flakes of muscovite; few shell fragments; pyrite.
- 190-200 Granite (highly weathered)- salt and pepper; quartz; white potassic feldspar; 15% biotite; few flakes of muscovite.
- 200-210 As above plus some pink microcline.
- 210-220 Granite- salt and pepper; quartz; white potassic feldspar; 20% biotite; pink microcline; some pyrite.
- 220-230 Granite- moderate orange pink, light gray; pink microcline; quartz; white potassic feldspar; 5% biotite; few grains of pyrite; muscovite.

Depth  
(feet)

- 230-240 Granite- salt and pepper; quartz; white potassic feldspar; 7% biotite; few grains of pink microcline; pyrite.
- 240-250 Granite- light gray, moderate orange pink, black; quartz; pink microcline; white potassic feldspar; 15% biotite; few flakes of muscovite.
- 250-260 As above except 10% biotite.
- 260-270 Granite- moderate orange pink, medium light gray; pink microcline; quartz; white potassic feldspar; 2% biotite; few grains of pyrite.
- 270-280 Granite- salt and pepper, moderate orange pink; quartz; pink microcline; 20% biotite; some white potassic feldspar; few grains of pyrite.
- 280-290 As above except 25% biotite.
- 290-300 As above plus some heavily stained grains; 20% biotite.
- 300-310 Granite- salt and pepper; quartz; 35% biotite; pink microcline; white potassic feldspar; few grains of pyrite.
- 310-320 Granite- very pale orange, black; quartz; pink microcline; 7% biotite; white potassic feldspar; few flakes of muscovite.
- 320-330 Granite- salt and pepper; quartz; 30% biotite; white potassic feldspar; pink microcline.
- 330-340 As above except 15% biotite; 5% muscovite.
- 340-350 Granite- grayish-orange pink, black; quartz; pink microcline; white potassic feldspar; 7% biotite; few flakes of muscovite.
- 350-360 As above except 5% biotite; some muscovite.
- 360-370 Granite- grayish-orange pink; quartz; pink microcline; white potassic feldspar; 2% biotite; some muscovite.
- 370-380 Granite- grayish-orange pink, black; quartz; pink microcline; white potassic feldspar; 15% biotite; some muscovite; few grains of garnet.
- 380-390 Granite- light gray, moderate orange pink, black; quartz; pink microcline; 15% biotite; white potassic feldspar; few grains of pyrite.

Depth  
(feet)

390-400 Granite- salt and pepper; quartz; 25% biotite; pink microcline; white potassic feldspar; few grains of pyrite.

400-410 As above.

410-420 Granite- salt and pepper; quartz; 30% biotite; white potassic feldspar; some pink microcline; few grains of pyrite.

420-430 As above.

430-440 As above.

440-450 Granite- grayish-orange pink; some heavily stained grains; quartz; white potassic feldspar; pink microcline; 5% biotite; few flakes of muscovite.

450-460 Granite- light gray; quartz; white potassic feldspar; 15% biotite; some muscovite; few grains of pyrite.

460-470 Granite- salt and pepper; quartz; white potassic feldspar; 25% biotite; some pink microcline.

470-480 Granite- grayish-orange pink; some heavily stained grains; quartz; white potassic feldspar; pink microcline; 5% biotite; few flakes of muscovite; pyrite.

480-490 As above except 10% biotite.

490-500 Granite- salt and pepper; quartz; white potassic feldspar; 10% biotite; some pink microcline; muscovite.

500-510 Granite- salt and pepper; quartz; 40% biotite; white potassic feldspar; pink microcline; some sodic plagioclase; few flakes of muscovite.

510-520 As above except 35% biotite; some pyrite.

520-530 As above except few grains of pyrite.

530-540 As above.

540-550 Granite- light gray; quartz; 35% biotite; white potassic feldspar; few flakes of muscovite; pyrite.

550-560 As above.

Depth  
(feet)

- 560-570 Granite- salt and pepper; quartz; 30% biotite; white potassic feldspar; pink microcline; few flakes of muscovite.
- 570-580 Granite- light gray, off-white, moderate orange pink; quartz; pink microcline; white potassic feldspar; 2% biotite; 2% muscovite; few grains of pyrite.
- 580-590 Granite- salt and pepper; quartz; 25% biotite; white potassic feldspar; pink microcline; some sodic plagioclase; few flakes of muscovite; pyrite.
- 590-600 As above except 30% biotite.
- 600-610 Granite- light gray; quartz; 30% biotite; white potassic feldspar; few flakes of feldspar; pyrite.
- 610-620 As above except 25% biotite; pink microcline.
- 620-632 As above except no microcline.

Logged by: Michael T. Currie  
July 6, 1979