

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-4394  
C-178

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: Atlee Recreation Association, Inc. Mailing Address: 3103 Ashling Drive  
Mechanicsville, Virginia 23111

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

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

WELL LOCATION: County Hanover Approx. 1½ <sup>feet</sup> miles \_\_\_\_\_ (direction) of \_\_\_\_\_  
from U. S. Highway 301 on \_\_\_\_\_ and \_\_\_\_\_ <sup>feet</sup> miles \_\_\_\_\_ (direction) of State Route 637

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

DATE STARTED: March, 1975 DATE COMPLETED: May, 1975

TYPE OF DRILL RIG USED: cable tool TOTAL DEPTH \*367 feet

WATER LEVEL: Stands 155 feet below surface OR Completed at 206 feet

has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method pump

Drawdown 25 feet

Rate 20 gal. per min.

Duration 71 hrs., 10 min.

HOLE SIZE: 12 inches from 0 to 100 feet

6 inches from 100 to 367 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 5 inches from 164 to 184'10" feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 6 inches from 0 to 157 feet

5 inches from 156 to 164 feet

5 inches from 185 to 207 feet

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

from \_\_\_\_\_ to \_\_\_\_\_ feet

from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_

Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

WELL TO SUPPLY: (check one) Home \_\_\_\_\_

Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_

Industry \_\_\_\_\_ Other recreation

GROUTING: Method yes

Material \_\_\_\_\_ Depth 100 feet

PUMP: Type \_\_\_\_\_

Capacity \_\_\_\_\_ gal per min

Depth of intake \_\_\_\_\_ feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No \_\_\_\_\_

DRILL CUTTINGS SAVED: Yes 37 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 was backfilled with gravel and rock to 206'.

# 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	Orangish soil	
10	20	Orange dirt	
20	30	Orange dirt	
30	40	Gray dirt and gravel	
40	50	Gray dirt	
50	60	Gray dirt- shell fragments	
60	100	Gray dirt- shell fragments	
100	110	Gray dirt	
110	120	Gray dirt	
120	140	Gray dirt	
140	160	Gravel	
160	367	Rock	

(Use additional forms if necessary)

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

INTERVAL SHEET

C-178

Page 1 of 1

Well Repository No.: W-4394

Date rec'd: 07/01/75 Date Processed: 07/06/76

Sample Interval: from 0 to: 367

PROPERTY: Atlee Recreation Association, Inc.

Number of samples: 37

COMPANY: Mitchell's Well and Pump Company

Total Depth: 367'

COUNTY: Hanover (Atlee)

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	60-67	-	-	-
70-80	-	-	-	-
80-90	-	-	-	-
90-100	-	-	-	-
100-10	-	-	-	-
10-20	-	-	-	-
20-30	-	-	-	-
30-40	-	-	-	-
40-50	-	-	-	-
50-60	-	-	-	-
60-70	-	-	-	-
70-80	-	-	-	-
80-90	-	-	-	-
90-200	-	-	-	-
200-10	-	-	-	-
10-20	-	-	-	-
20-30	-	-	-	-
30-40	-	-	-	-
40-50	-	-	-	-
50-60	-	-	-	-
60-70	-	-	-	-
70-80	-	-	-	-
80-90	-	-	-	-
90-300	-	-	-	-
-	Washed and unwashed samples	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

OWNER : Atlee Recreation Association, Inc. W# : 4394  
DRILLER: Mitchell's Well and Pump Company C# : 178  
COUNTY : Hanover TOTAL DEPTH: 367'  
QUAD : Yellow Tavern

GEOLOGIC LOG

Depth  
(feet)

- 0-10 Clay and sand- grayish-orange; abundant clay; moderate sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques (washed sample only).
- 10-20 Sand- very dark yellowish-orange; moderately stained; slightly clayey; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques.
- 20-30 Sand- very dark yellowish-orange; heavily stained; slightly clayey; medium to coarse grained; subangular to subrounded; well sorted; quartz; feldspar; few opaques.
- 30-40 Gravel and sand- light olive gray; moderate clay; medium grained to granular, 60% pebbles (4-20 mm); subangular to subrounded; poorly sorted; quartz; feldspar (pebbles); few flakes of muscovite; biotite.
- 40-50 Clay- light olive gray; slightly silty; abundant sand; fine to medium grained, some granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; some shell fragments; muscovite; few black phosphatic fragments; few ferri-crete fragments; biotite; glauconite.
- 50-60 Sand- olive light gray; moderate clay; fine to medium grained, few granules, some pebbles; subangular to subrounded; moderately well sorted; quartz; 2% shell fragments; few black phosphatic fragments; muscovite.
- 60-70 Sand- olive light gray; moderate clay; fine grained; subangular to subrounded; well sorted; quartz; 15% shell fragments; some black phosphatic material; few flakes of muscovite.
- 70-80 Clay- olive light gray; moderate sand; fine to coarse grained, few granules, few pebbles; subangular to subrounded; moderately sorted; quartz; 3% shell fragments; some ferricrete; few flakes of muscovite.
- 80-90 Sand- olive light gray; moderate clay; moderate silt; fine to medium grained, some coarse grains, 5% granules, some pebbles; subangular to subrounded; moderately sorted; quartz; 5% shell fragments; few black phosphatic fragments; muscovite.

Depth  
(feet)

- 90-100 Clay- olive light gray; slightly sandy; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; some shell fragments; few black phosphatic fragments; muscovite.
- 100-110 Clay- yellowish-gray; slightly silty; some quartz; few diatoms; few flakes of muscovite.
- 110-120 As above plus few black phosphatic fragments; few shell fragments.
- 120-130 As above.
- 130-140 As above.
- 140-150 Granules and gravel- multicolored; some very coarse grains; angular to subrounded; moderately sorted; quartz; few grains of feldspar.
- 150-160 As above.
- 160-170 Sand- off-white; coarse to very coarse grained, 5% granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some fragments of biotite gneiss; pyrite; few flakes of muscovite.
- 170-180 Granite (slightly weathered)- off-white; quartz; white potassic feldspar; few flakes of muscovite; biotite.
- 180-190 As above.
- 190-200 Granite- white, moderate orange pink; quartz; pink microcline; white potassic feldspar; 2% muscovite; few flakes of biotite.
- 200-210 As above except 3% muscovite; some biotite.
- 210-220 Granite- very pale orange; quartz; white potassic feldspar; pink microcline; 5% muscovite; 3% biotite; few grains of garnet.
- 220-230 As above.
- 230-240 Granite- light orange pink; quartz; pink microcline; white potassic feldspar; 5% biotite; 3% muscovite.
- 240-250 Granite- moderate orange pink; pink microcline; quartz; white potassic feldspar; 5% biotite; 2% muscovite.

Depth  
(feet)

250-260 Sand- off-white; coarse grained to granular, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite; glauconite (Note: sample appears to be misplaced).

260-270 Granite- pale orange; some heavily iron-stained grains; quartz; white potassic feldspar; pink microcline; 5% biotite; 2% muscovite.

270-280 As above except 5% muscovite.

280-290 As above.

290-300 As above except 7% biotite.

300-310 As above.

310-320 As above.

320-330 As above.

330-340 As above.

340-350 As above.

350-360 As above.

360-367 As above.

Logged by: Michael T. Currie  
May 25, 1979