

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: Mr. Albert A. Elliot Mailing Address: 4711 Shop St. Chester, Va. 23832

TENANT: Mr. Albert A. Elliott Mailing Address: 4711 Shop St. Chester, Va. 23832
16815 Happy Hill Road

DRILLER: J. J. Mitchell III Mailing Address: Colonial Hgts. Va. 23834
Happy Hill Rd

WELL LOCATION: County Chesterfield Approx. 0 feet 0 miles (direction) of
0 feet 0 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: February 1978 DATE COMPLETED: March 1978

TYPE OF DRILL RIG USED: combination TOTAL DEPTH 360' feet

WATER LEVEL: Stands 40 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pumped
210' of pump used in test
Drawdown _____ feet
Rate 2 1/2 gal. per min.
Duration 2 hrs., _____ min.

HOLE SIZE: 10 inches from 0 to 120 feet
6 inches from 20 to 360 feet
_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ to _____ feet

_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from _____ to 123 feet

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

_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

GROUTING: Method _____
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: ~~Yes~~ No _____

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

DRILL CUTTINGS SAVED: Yes _____ No xxx

(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	10	gray earth	0
20	50	orange earth & gravel	1
	60	orange gravel	2,3,4,&5
	70	gray & orange	6
	110	gray earth & gravel	7,8,9,10,&11
120	360	rock	12,13,14,15,16,17,18 19,20,21,22,23,24,25, 26,27,28,29,30,31,32 33,34,35,36

(Use additional forms if necessary)

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

INTERVAL SHEET

Page 1 of 1 Well Repository No: W# 5223 C# 231
 Date rec'd: 7/6/78 Date Processed: 7/18/78 Sample Interval: from: 0 to: 360
 PROPERTY: Albert Elliott Number of samples: 37
 COMPANY: Mitchell Total Depth: 360
 COUNTY: Chesterfield (Chester) ~~XXXXXXXXXX~~ Water: ~~XXXXXXXXXX~~:

From-To	From-To	From-To	From-To
- 0	- 250	-	-
-10	- 260	-	-
-20	- 270	-	-
-30	- 280	-	-
-40	- 290	-	-
-50	- 300	-	-
-60	- 310	-	-
-70	- 320	-	-
-80	- 330	-	-
-90	- 340	-	-
-100	- 350	-	-
-110	- 360	-	-
-120	-	-	-
-130	-	-	-
-140	-	-	-
-150	-	-	-
-160	-	-	-
-170	-	-	-
-180	-	-	-
-190	-	-	-
-200	-	-	-
-210	-	-	-
-220	-	-	-
-230	-	-	-
-240	-	-	-

Washed and unwashed samples

OWNER: Albert Elliott
DRILLER: Mitchell's
COUNTY: Chesterfield

W# 5223
C# 231
Total Depth: 360'
Quad.: Chester

<u>Depth</u> <u>(feet)</u>	<u>GEOLOGIC LOG</u>
0	Sand - light olive gray; moderate clay; medium to coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar.
0-10	Sand - light brown; slightly clayey; medium to coarse grained, 5% granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar.
10-20	Sand - light brown; slightly clayey; coarse grained to granular (30%); subrounded; moderately well sorted; quartz; feldspar; few opaques.
20-30	As above plus some medium grains.
30-40	As above plus some brownish gray clay; medium grained to granular.
40-50	As above except dark yellowish orange; slight staining; few flakes of muscovite.
50-60	Clay and granules - dark yellowish orange, olive light gray; moderate fine to coarse grained sand; subangular to subrounded; poorly sorted; quartz; feldspar; few black phosphatic fragments; few opaques.
60-70	Clay - olive light gray, dark yellowish orange; some granules; 10% pebbles; subrounded; well sorted; quartz; feldspar; some muscovite; few black phosphatic fragments.
70-80	As above plus some coarse grained sand; some pebbles.
80-90	Clay - olive light gray; abundant sand; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; some black phosphatic material; muscovite.
90-100	Sand - white; coarse grained to granular, some medium grains, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
100-110	Sand - white; slightly clayey; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar.

Depth
(feet)

110-120 Granite - salt and pepper; quartz; feldspar; 5% muscovite; 3% biotite; garnet.

120-130 Granite - white, very pale orange; quartz; feldspar; 12% muscovite; some biotite; garnet.

130-140 Granite - salt and pepper; quartz; feldspar; 7% biotite; 2% muscovite.

140-150 Granite - white, very pale orange, black; quartz; feldspar; 5% biotite; some muscovite.

150-160 As above.

160-170 Granite - salt and pepper; quartz; 35% biotite; feldspar; some muscovite.

170-180 Granite - white, very pale orange, black, quartz; feldspar; 5% biotite; some muscovite.

180-190 As above except 7% biotite.

190-200 As above except 3% biotite.

200-210 Granite - white, very pale orange; quartz; feldspar; 2% muscovite; 2% biotite.

210-220 As above except 3% biotite.

220-230 Granite - salt and pepper; quartz; feldspar; 15% biotite; some muscovite.

230-240 Granite - light orange pink, white; quartz; feldspar, some biotite; some muscovite,

240-250 Granite - white, light orange pink, black; quartz; feldspar; 12% biotite; some muscovite.

250-260 As above except 7% biotite.

260-270 As above except 5% biotite.

270-280 Granite - salt and pepper; quartz; feldspar; 20% biotite; some muscovite.

280-290 As above except 25% biotite.

290-300 Granite - white; black, light orange pink; quartz; feldspar; 5% biotite; some muscovite.

300-310 Granite - white, light orange pink, black; quartz; feldspar; 10% biotite, some muscovite.

Depth
(feet)

310-320 As above except 5% biotite.

320-330 Granite - white, black, light orange pink; quartz; feldspar; 25% biotite; some muscovite; pyrite.

330-340 Granite - light orange pink, white, black; feldspar; quartz; 7% biotite; some muscovite.

340-350 Granite - salt and pepper; quartz; 30% biotite; feldspar; some muscovite.

350-360 Granite - salt and pepper; quartz; feldspar; 15% biotite; some muscovite.

Note: all samples are unwashed.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Thickness (feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-50	50	Moorings "Unit"	Pleistocene
50-90	40	Calvert Formation	Miocene - Eocene
90-110	20	Patuxent Formation	Cretaceous
110-360	250	Petersburg, Granite	Palozoic (?)

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
September 15, 1978