

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4165

C#: 206

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: Chesterfield County Mailing Address: _____

TENANT: Bright Oaks Corp. #2 Mailing Address: _____

DRILLER: Moseley & Nash Ent., Inc. Mailing Address: Near Lake Gasten (Buggs Island)
Blackridge, Va. 23916

WELL LOCATION: County Chesterfield Approx. 4000 ^{feet}~~yards~~ east (direction) of
State Route 602 and 50 ^{feet}~~yards~~ South (direction) of State Route 630

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

DATE STARTED: 6/11/74 DATE COMPLETED: 6/13/74

TYPE OF DRILL RIG USED: Air Rotary TOTAL DEPTH 370 feet

WATER LEVEL: Stands _____ feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Air*

Drawdown _____ feet

90

Rate Approx. *gal. per min.

Duration _____ hrs., _____ min.

WATER ZONES: from 110 to 135 feet

from 220 to 236 feet

from _____ to _____ feet

WATER: Color clear Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

WATER ANALYSIS AVAILABLE: Yes _____ No x

DRILL CUTTINGS SAVED: 37 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: * Permanent pump test not completed.

HOLE SIZE: 11 inches from 0 to 55 feet

6 inches from 55 to 370 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from 0 to 55 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method pumped

Material cement & water depth 53 feet

PUMP: Type _____

Capacity _____ gal per min

Depth of intake _____ feet

LOG

FURNISHED BY: Moseley & Nash Ent., Inc.

DATE: July 25, 1974

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	Yellow clay	water at 110
10	20	red clay	
20	30	pink clay	
36	50	sandy clay	
50	60	sand rock	
60	100	granite (gray)	
100	110	granite (red)	
110	160	granite (gray)	
160	220	granite (red)	
220	270	granite (gray)	
270	370	granite (mixed color)	

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

INTERVAL SHEET

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Date rec'd: 10/28/74 Date Processed:
PROPERTY: Chesterfield County
(Bright Oaks Corp. #2)
COMPANY: Mosely and Nash
COUNTY: Chesterfield
(Matoaco)

W#: 4165
Well Repository No: C#: 206
Sample Interval: from:0 to:370
Number of samples: 37
Total Depth: 370'
Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 260	-	-
10 - 20	260 - 270	-	-
20 - 30	270 - 280	-	-
30 - 40	280 - 290	-	-
40 - 50	290 - 300	-	-
50 - 60	300 - 310	-	-
60 - 70	310 - 320	-	-
70 - 80	320 - 330	-	-
80 - 90	330 - 340	-	-
90 - 100	340 - 350	-	-
100 - 110	350 - 360	-	-
110 - 120	360 - 370	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-

Unwashed only.

OWNER: Chesterfield Co.
DRILLER: Mosely & Nash
COUNTY: Chesterfield (Matoaca)

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C#: 206
TOTAL DEPTH: 370'
QUAD: Beach

GEOLOGIC LOG

Depth
(feet)

0-10 Sand — dark yellowish orange; medium grained, some fine grains, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.

10-20 Sand — very dark yellowish orange; heavily stained; moderate clay; medium to coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques; few grains of glauconite.

20-30 Sand — light brown; slightly clayey; medium to coarse grained, some fine grains, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques; few grains of glauconite; muscovite.

30-40 As above except pale yellowish orange.

40-50 Sand — very pale orange; slightly clayey; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.

50-60 Granite — light olive gray; some iron stained grains; quartz; feldspar; 10% biotite; few flakes of muscovite.

60-70 As above except salt and pepper.

70-80 As above plus few grains of pyrite.

80-90 Granite — salt and pepper; equigranular; quartz; feldspar; 12% biotite; few flakes of muscovite.

90-100 Granite — medium light gray; quartz; feldspar; 25% biotite; few flakes of muscovite.

100-110 Granite — grayish orange pink; quartz; feldspar; 5% biotite; few flakes of muscovite.

110-120 Granite — light gray; equigranular; quartz; feldspar; 15% biotite; muscovite.

120-130 As above.

130-140 As above.

Depth
(feet)

140-150 Granite — medium light gray, moderate orange pink; equigranular; quartz; pink microcline; plagioclase; 17% biotite; muscovite.

150-160 Granite — light gray; quartz; feldspar; 7% biotite; few flakes of muscovite.

160-170 Granite — very pale orange pink; quartz; feldspar; 3% biotite; some muscovite.

170-180 Granite — grayish orange pink; equigranular; quartz; feldspar; 2% biotite; few flakes of muscovite.

180-190 As above.

190-200 As above except 7% biotite.

200-210 As above except some biotite.

210-220 As above.

220-230 Granite — very light gray; quartz; feldspar; 3% biotite; few flakes of muscovite.

230-240 As above except 5% biotite.

240-250 As above.

250-260 Granite — grayish orange pink; equigranular; quartz; feldspar; 2% biotite; some muscovite.

260-270 As above except very light gray.

270-280 Granite — grayish pink; quartz; pink microcline; some biotite; some muscovite.

280-290 As above except light gray.

290-300 As above.

300-310 As above except 5% biotite.

310-320 As above.

320-330 Granite — grayish orange pink; quartz; feldspar; 3% biotite; some muscovite.

OWNER: Chesterfield Co.

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Depth
(feet)

330-340 As above except 5% biotite.

340-350 As above except 7% biotite.

350-360 As above.

360-370 As above except 3% biotite.

Note: All samples are unwashed.

Logged by: Michael T. Currie

OWNER: Chesterfield Co.

W# 4165

320'

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GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-50	50	Columbian Group	Pleistocene
50-370	320	Petersburg Granite	Paleozoic(?)

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

Do Not Type