

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4162
C#: 218

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: County of Chesterfield Mailing Address: Chesterfield, VA.

TENANT: Bright Oaks Corporation Well # 1 Mailing Address: c/o Charles C. Townes & Assoc.
P.O. Box 97, Colonial Heights

DRILLER: Mosely & Nash Ent., Inc. Mailing Address: Blackridge, VA. 23916

WELL LOCATION: County Chesterfield Approx. 17 ^{feet} ~~miles~~ South (direction) of
State Route #602 and 270 ^{feet} ~~miles~~ West (direction) of State Route #636

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

DATE STARTED: 6/4/74 DATE COMPLETED: 6/10/74

TYPE OF DRILL RIG USED: Air Rotary TOTAL DEPTH 505 feet

WATER LEVEL: Stands _____ feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Air

Drawdown _____ feet

Rate 50 gal. per min.

Duration _____ hrs., _____ min.

HOLE SIZE: 11 inches from 0 to 73 feet

6 inches from 73 to 505 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 73 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER ZONES: from 130 to 135 feet

from 160 to 165 feet

from 215 to 220 feet
from 240 to 245 feet

WATER: Color Clear Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

GROUTING: Method Pumped

Material Cement & Water Depth 55 feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No XX

DRILL CUTTINGS SAVED: Yes 48 XX 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: _____

LOG

FURNISHED BY: Mosely & Nash Enterprises, Inc.

DATE: June 11, 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	20	Red Clay	
20	30	Yellow Clay	
30	60	Pink Clay	
60	70	Soft Sand Rock	
70	110	Hard Sand Rock	
110	120	Hard Sand Rock (Gray)	
120	130	Hard Sand Rock (Brown)	
130	505	Granite (Mixed color)	
TOTAL DEPTH			
505			

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

INTERVAL SHEET

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Date rec'd: 7/18/74 Date Processed: 6/18/75

PROPERTY: County of Chesterfield
 (Bright Oaks Corp.) Well # 1

COMPANY: Mosely & Nash

COUNTY: Chesterfield

Well Repository No: W#: 4162

C#: 218

Sample Interval: from: to:
 0 500

Number of samples: 50

Total Depth: 505'

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 60	-	-
10 - 20	260 - 70	-	-
20 - 30	270 - 80	-	-
30 - 40	280 - 90	-	-
40 - 50	290 - 300	-	-
50 - 60	300 - 10	-	-
60 - 70	310 - 20	-	-
70 - 80	320 - 30	-	-
80 - 90	330 - 40	-	-
90 - 100	340 - 50	-	-
100 - 10	350 - 60	-	-
110 - 20	360 - 70	-	-
120 - 30	370 - 80	-	-
130 - 40	380 - 90	-	-
140 - 50	390 - 400	-	-
150 - 60	400 - 10	-	-
160 - 70	410 - 20	-	-
170 - 80	420 - 30	-	-
180 - 90	430 - 40	-	-
190 - 200	440 - 50	-	-
200 - 10	450 - 60	-	-
210 - 20	460 - 70	-	-
220 - 30	470 - 80	-	-
230 - 40	480 - 90	-	-
240 - 250	490 - 500	-	-

Unwashed samples

OWNER: County of Chesterfield
(Bright Oaks Corp.) Well # 1
DRILLER: Mosely & Nash
COUNTY: Chesterfield

W#: 4162
C#: 218
TOTAL DEPTH: 505'
QUAD: Beach

GEOLOGIC LOG

Depth
(feet)

0 - 10 Clay -- light brown, very dark yellowish orange, pale yellowish gray; abundant sand; very fine to medium grained, some coarse grains; sub-angular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.

10 - 20 Sand -- pale reddish brown; moderate clay; fine graind; subangular to subrounded; well sorted; quartz; feldspar; few opagues; muscovite.

20 - 30 Sand -- pale yellowish orange; slightly clayey - pale yellowish orange, white (clasts); fine grained; subangular to subrounded; well sorted; quartz; feldspar; few flakes of muscovite.

30 - 40 As above except moderate orange pink.

40 - 50 As above.

50 - 60 As above plus some very fine grains.

60 - 70 Granite (weathered) -- yellowish gray; quartz; feldspar; some muscovite; few flakes of biotite; few grains of fluorite.

70 - 80 Granite (weathered) -- light olive gray; slightly clayey; quartz; feldspar; 2% muscovite; 2% biotite.

80 - 90 Granite -- light olive gray; slightly clayey; equigranular; quartz; feldspar; 3% biotite; some muscovite.

90 - 100 Granite -- off white; quartz; feldspar; 3% biotite; muscovite.

100 - 110 As above.

110 - 120 As above except 5% biotite.

120 - 130 Granite -- grayish orange pink; quartz; feldspar; 5% biotite; some muscovite.

130 - 140 Granite -- very light gray; quartz; feldspar; 7% biotite; some muscovite.

140 - 150 As above.

150 - 160 As above.

Depth
(feet)

160 - 170	Granite -- very pale orange, medium light gray; quartz; feldspar; 5% biotite; some muscovite.
170 - 180	Granite -- medium light gray; equigranular; quartz; feldspar; 5% biotite; few flakes of muscovite.
180 - 190	Granite -- pinkish gray; quartz; feldspar; 7% biotite; some muscovite.
190 - 200	As above.
200 - 210	Granite -- very light gray; quartz; feldspar; 5% biotite; few flakes of muscovite.
210 - 220	As above except some muscovite.
220 - 230	As above.
230 - 240	As above except 7% biotite.
240 - 250	Granite -- light gray; quartz; feldspar; 7% biotite; some muscovite.
250 - 260	Granite -- pinkish gray, medium light gray; equigranular; quartz; feldspar; 5% biotite; some muscovite.
260 - 270	As above except 2% muscovite.
270 - 280	As above except 7% biotite.
280 - 290	As above.
290 - 300	As above.
300 - 310	Granite -- moderate orange pink, light gray; quartz; feldspar; 2% biotite; 2% muscovite.
310 - 320	Granite -- medium light gray, moderate orange pink; equigranular; quartz; feldspar; 5% biotite; some muscovite.
320 - 330	Granite -- moderate orange pink, medium light gray; equigranular; quartz; feldspar; 5% biotite; some muscovite.
330 - 340	Granite -- very light gray, medium light gray; equigranular; quartz; feldspar; 10% biotite; few flakes of muscovite.
340 - 350	Granite -- grayish orange pink; equigranular; quartz; feldspar; 7% biotite; some muscovite.
350 - 360	As above.
360 - 370	As above except 3% biotite; 2% muscovite.

Depth
(feet)

370 - 380 Granite -- grayish orange pink; quartz; feldspar; 5% muscovite; 2% biotite.

380 - 390 Granite -- medium light gray, moderate orange pink; equigranular; quartz; feldspar; 3% biotite; some muscovite.

390 - 400 Granite -- grayish orange pink; quartz; feldspar; 5% biotite; 2% muscovite.

400 - 410 Granite -- medium light gray, moderate orange pink; equigranular; quartz; feldspar; 5% biotite; some muscovite.

410 - 420 Granite -- moderate reddish orange, medium light gray; equigranular; quartz; feldspar; 3% muscovite; some biotite.

420 - 430 Granite -- grayish orange pink; equigranular; quartz; feldspar; 5% biotite; some muscovite.

430 - 440 Granite -- moderate reddish orange; equigranular; quartz; feldspar; 2% muscovite; some biotite.

440 - 450 As above except 3% biotite.

450 - 460 As above.

460 - 470 As above except 2% biotite.

470 - 480 Granite -- grayish orange pink, medium gray; quartz; feldspar; 2% biotite; 2% muscovite.

480 - 490 As above except 3% biotite.

490 - 500 Granite -- very light gray; quartz; feldspar; 7% biotite; some muscovite.

500 - 505 No sample

NOTE: All samples are unwashed.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Depth</u> <u>(Feet)</u>	<u>Thickness</u> <u>(Feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0 - 60	60	Columbia Group	Pleistocene
60 - 500	440	Petersburg Granite	Paleozoic (?)
500 - 505	5	No sample	

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
December 28, 1978