

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4892  
C#: 203

MAILING ADDRESS:

B-3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

P. O. Box 551

OWNER: Ray Broyhill

Mailing Address: Hopewell, Va. 23860

TENANT: \_\_\_\_\_

Mailing Address: 16815 Happy Hill Rd.

DRILLER: J. J. Mitchell, Jr.

Mailing Address: Colonial Heights, Va. 23834

WELL LOCATION: County Prince George (Hopewell) Approx. \_\_\_\_\_ feet miles \_\_\_\_\_ (direction) of  
1050 w/Riverside 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: April 1977

DATE COMPLETED: April 1977

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 103 feet

WATER LEVEL: Stands 15 feet below surface OR

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

YIELD TEST: Method Pumped

Drawdown 46 feet of pump pipe. No air

Rate 18 gal. per min.

Duration 5 hrs., \_\_\_\_\_ min.

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 water lawn

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

DRILL CUTTINGS SAVED: 11 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: \_\_\_\_\_

HOLE SIZE: 7 inches from 0 to 12 feet

4 inches from 12 to 103 feet

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

SCREEN SIZE: 4 inches from 83'8" to 103'6" feet  
slotted pipe

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

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

CASE SIZE: 4 inches from +1 to 83'8" feet

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

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

GROUTING: Method \_\_\_\_\_

Material \_\_\_\_\_ Depth 12 feet

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

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

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

LOG

FURNISHED BY: Mitchell's Well & Pump

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	Orange dirt & gravel	
10	20	Gray mud	
20	30	" "	
30	50	Tan gravel	
50	70	Gray gravel & dirt	
70	80	Gray gravel	
80	103	Gray sand & gravel	

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 Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1 of 1	Well Repository No: W#: 4892	
		C#: 203
Date rec'd: 8/29/77	Date Processed: 9/19/77	Sample Interval: from: 0 to: 103
PROPERTY: Ray Broyhill		Number of samples: 11
COMPANY: J. J. Mitchell		Total Depth: 103'
COUNTY: Prince George (Hopewell)		Oil or Gas: Water & Exploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 103	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed and unwashed samples.

OWNER: Ray Broyhill  
DRILLER: J. J. Mitchell  
COUNTY: Prince George  
(Hopewell)

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TOTAL DEPTH: 103'

GEOLOGIC LOG

Depth  
(feet)

- 0-10 Clay — dark yellowish orange; abundant sand; very fine to fine grained; subangular to subrounded; moderately well sorted; quartz; some feldspar; few opaques; muscovite.
- 10-20 Clay — light olive gray; abundant sand; fine to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; some black phosphatic material; few grains of glauconite.
- 20-30 Sand — yellowish gray; abundant clay; very fine to coarse grained, some granules; subangular to subrounded; poorly sorted; quartz; feldspar; some glauconite; few black phosphatic fragments; few shell fragments.
- 30-40 Sand — grayish orange; slightly clayey; coarse grained to granular, some medium grains, 5% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some glauconite.
- 40-50 Sand and gravel — off white; slightly clayey; coarse grained to gravel, some medium grains; angular to subrounded; poorly sorted; quartz; feldspar.
- 50-60 Sand — light olive gray; abundant clay; medium to coarse grained, some fine grains, 10% granules, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 60-70 Sand — white; slightly clayey; medium to very coarse grained, 7% granules, few pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
- 70-80 Granules — white; abundant coarse to very coarse grained sand, few pebbles; subrounded; moderately well sorted; quartz; feldspar.
- 80-90 Sand — white; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some garnet.
- 90-100 As above plus few pebbles.
- 100-103 Sand — white; medium grained to granular, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar.

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>
0-10	10	Norfolk Formation	Pleistocene
10-30	20	Calvert Formation	Miocene-Eocene
30-103	73+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES  
David A. Hubbard, Jr., Geologist  
September 8, 1978