

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 3979
C#: 164

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: Bremner, Youngblood, & Sharp, Inc. Mailing Address: 5709 Mechanicsville Pike
Mechanicsville, VA. 23111

TENANT: Pebblebrook Subdivision Mailing Address: _____

DRILLER: Mitchell's Well & Pump Co., Inc. Mailing Address: Rt. 1, Box 110
Col. Hgts. VA

WELL LOCATION: County Hanover Approx. 13 ^{feet}/_{miles} East (direction) of _____

Mechanicsville on St. Rd. 606, left side ^{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: May 1973 DATE COMPLETED: May 1973

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 314 feet

WATER LEVEL: Stands 155 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pumped

Drawdown 225 feet

Rate 102.85 gal. per min.

Duration 33 hrs., 30 min.

HOLE SIZE: 12 inches from 0 to 50 feet

6 inches from 50 to 314 feet

SCREEN SIZE: 5 inches from 294 to 314 feet

WATER ZONES: from 294 to 314 feet

from _____ to _____ feet

from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER: Color Clear Taste Good

Odor None Temp. _____ °F

CASE SIZE: 6 inches from 0 to 260'6" feet

5 inches from 260 to 294 feet

GROUTING: Method _____

Material _____ Depth _____ feet

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

PUMP: Type Submersible

WATER ANALYSIS AVAILABLE: Yes _____ No N

Capacity _____ gal per min

DRILL CUTTINGS SAVED: ³¹ Yes XX No _____

Depth of intake _____ feet

(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: Mitchell's Well & Pump Co., Inc.

DATE: July 16, 1973

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	Tan dirt	
10	20	Tan dirt, some grit	
20	30	White dirt	
30	40	Light Tan dirt	
40	50	Yellowish gravel	
50	60	Tan dirt	
60	70	Gray dirt	
70	80	Ditto	
80	90	"	
90	100	"	
100	110	Dark gray dirt	
110	120	Ditto	
120	130	"	
130	140	"	
140	150	"	
150	160	Light gray dirt	
160	170	Ditto	
170	180	"	
180	190	Gray dirt-shell fragments	
190	200	Gray dirt	
200	210	Dark gray dirt	
210	220	Ditto	
220	230	Tan dirt	
230	240	Ditto	
240	250	Brownish dirt-shell fragments	
250	260	Brownish dirt-pebbles	
260	270	Tan sand & gravel	
270	280	Ditto	
280	290	"	
290	300	"	
300	314	"	

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

INTERVAL SHEET

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Date rec'd: 9/27/73 Date Processed: 7/17/74

PROPERTY: Bremner, Youngblood & Sharp
 (Pebblebrook Subdivision)

COMPANY: Mitchell's Well & Pump Co.

COUNTY: Hanover
 (Farmers Shop)

Well Repository No: W#: 3979

C#: 164

Sample Interval: from: to:
 0 314'

Number of samples: 31

Total Depth: 314'

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	50 - 60	-	-
10 - 20	60 - 70	-	-
20 - 30	70 - 80	-	-
30 - 40	80 - 90	-	-
40 - 50	90 - 300	-	-
50 - 60	310 - 14	-	-
60 - 70	-	-	-
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	-	-	-

Both washed and unwashed samples.

OWNER: Bremner, Youngblood, & Sharp
(Pebblebrook Subdivision)
DRILLER: Mitchell's W & P Co.
COUNTY: Hanover
(Farmers Shop)

W#: 3979
C#: 164
TOTAL DEPTH: 314'
QUAD: Manquin

GEOLOGIC LOG

Depth
(feet)

- 0 - 10 Sand -- light brown; abundant clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some feldspar; few opaques.
- 10 - 20 Sand -- grayish orange; slightly stained; slightly clayey; medium grained to gravel (20%); subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.
- 20 - 30 Sand -- white; slightly clayey; fine to medium grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques.
- 30 - 40 Sand -- very pale orange; medium to coarse grained, some granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques; muscovite.
- 40 - 50 Gravel -- dark yellowish orange; heavily stained; some very coarse grains, 20% granules; subrounded; moderately well sorted; quartz; feldspar.
- 50 - 60 Sand -- grayish orange; some stained grains; moderate clay; fine grained to granular, 15% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques; few flakes of muscovite.
- 60 - 70 Clay -- light olive gray; moderate sand; fine grained; subangular; well sorted; quartz; few flakes of muscovite.
- 70 - 80 As above plus few fragments of ferricrete.
- 80 - 90 Sand -- light olive gray; abundant clay; fine grained; subangular; well sorted; quartz; few flakes of muscovite; few black phosphatic fragments.
- 90 - 100 Sand -- olive light gray; moderate clay; medium to coarse grained, some granules; subrounded; moderately well sorted; quartz; 10% black phosphatic material; few flakes of muscovite; garnet.
- 100 - 110 Sand and clay -- olive light gray; moderate clay; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 40% glauconite; 5% shell fragments; some muscovite; forams scarce (inc. Robulus and Guttulina).

Depth
(feet)

- 110 - 120 Clay - olive light gray; abundant sand; fine to medium grained; sub-angular to rounded; well sorted; quartz; glauconite, 30% of sand sized fraction; 3% muscovite; some shell fragments; forams (inc. Robulus, Globigerina, Bolivina, and Buccella): ostracodes; few echinoid spines; few grains of pyrite.
- 120 - 130 Sand - olive light gray; abundant clay; fine to medium grained, some coarse grains; subangular to rounded; moderately well sorted; quartz; 35% glauconite; 5% shell fragments; some muscovite; few echinoid spines; few black phosphatic fragments; forams (inc. Guttulina and Buccella).
- 130 - 140 Sand - olive light gray; moderate clay; fine to medium grained; sub-angular to rounded; moderately well sorted; 50% glauconite; quartz; 5% shell fragments; some muscovite; few grains of pyrite.
- 140 - 150 Clay - light olive gray; moderate sand; fine to medium grained; sub-angular to rounded; moderately well sorted; glauconite, 60% of sand sized fraction; quartz; some shell fragments; some muscovite; ostracodes; some pyrite; few echinoid spines; forams rare (inc. Buccella).
- 150 - 160 Clay - very light gray; slightly sandy; medium grained; rounded; well sorted; glauconite, 90% of sand sized fraction; quartz; few flakes of muscovite.
- 160 - 170 Clay - light olive gray, very light gray; slightly sandy; fine to medium grained; subangular to rounded, moderately well sorted; glauconite, 75% of sand sized fraction, some muscovite; few shell fragments.
- 170 - 180 Clay - very light gray; 5% limestone fragments; some quartz; some glauconite; few flakes of muscovite.
- 180 - 190 Clay - olive light gray; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; glauconite, 60% of sand sized fraction; quartz; 5% shell fragments, inc. pelecypod; 2% muscovite; few grains of pyrite; forams rare (inc. Globigerina): ostracode.
- 190 - 200 Clay - olive light gray, very light gray; slightly sandy; fine grained; subangular to subrounded; well sorted; quartz; glauconite, 15% of sand sized fraction; some shell fragments; some muscovite; few limestone fragments; few black phosphatic fragments.
- 200 - 210 Sand - olive light gray; moderate clay; fine to medium grained; sub-angular to rounded; well sorted; quartz; 35% glauconite; some muscovite.
- 210 - 220 Clay - olive light gray; abundant sand; fine to medium grained; sub-angular to rounded; well sorted; quartz; glauconite, 20% of sand sized fraction; 3% shell fragments; 2% muscovite; forams (inc. Robulus and Nodosaria); few black phosphatic fragments; bone fragment.

Depth
(feet)

- 220 - 230 Clay -- light brown; abundant sand and gravel; coarse grained to granular, 60% pebbles; subangular to subrounded; poorly sorted; quartz; 5% shell fragments; 3% black phosphatic material; 2% glauconite; few flakes of muscovite.
- 230 - 240 Clay -- yellowish gray, light brown; abundant sand and gravel; fine to medium grained, 15% granules, 40% pebbles; subangular to subrounded; poorly sorted; quartz; 2% black phosphatic material; some glauconite; few flakes of muscovite.
- 240 - 250 Clay -- light brown; moderate sand and gravel; coarse grained to granular, 35% pebbles; subangular to subrounded; moderately sorted; quartz; 7% shell fragments; some black phosphatic material; some glauconite.
- 250 - 260 As above except 60% pebbles.
- 260 - 270 Sand -- white, coarse to very coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 270 - 280 Sand -- off white; some stained grains; coarse to very coarse grained, 5% granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite.
- 280 - 290 As above except 7% pebbles.
- 290 - 300 Sand -- off white; some stained grains; medium to very coarse grained, 3% granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite; garnet.
- 300 - 310 No sample.
- 310 - 314 Sand -- off white; coarse grained to granular, 10% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of garnet.

Logged by: Michael T. Currie
Feb. 14, 1979