

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 3579
C#: 149

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: Totopotomoy, Inc., Well #4 Mailing Address: P.O. Box 26847 Richmond, VA

TENANT: _____ Mailing Address: _____

DRILLER: Harper Pump & Well Co. Mailing Address: Ruther Glen, VA

WELL LOCATION: County Hanover Approx. 3 ^{feet} miles North (direction) of
Richmond and 4 ^{feet} miles Southeast (direction) of Ashland

(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 18, 1972 DATE COMPLETED: May 25, 1972

TYPE OF DRILL RIG USED: Air Rotary TOTAL DEPTH 330 feet

WATER LEVEL: Stands 100 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Air Compressor

Drawdown _____ feet

Rate 30 gal. per min.

Duration _____ hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 50 feet

6 inches from 50 to 330 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER ZONES: from 253 to _____ feet

from 280 to _____ feet

from 300 to _____ feet

CASE SIZE: 6 inches from 0 to 214 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

GROUTING: Method Pressure

Material Cement & water Depth 50 feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: Yes 35 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: Harvey J. Harper

DATE: May 25, 1972

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	Brown clay	
10	20	Red clay	
20	40	Brown sand	
40	150	Blue clay	
150	200	Green clay	
200	212	Black rock	
212	280	Grey rock	
280	330	Grey granite	
TOTAL DEPTH			
330			

(Use additional forms if necessary)

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DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

RHT
Probable

OWNER: Totonotony, Inc. Mailing Address: P. O. Box 26817, Richmond, Va.

TENANT: Totonotony, Inc. Mailing Address: P. O. Box 26817, Richmond, Va.

DRILLER: Harper Pump & Well Co. Mailing Address: Butcher Glen, Va.

WELL LOCATION: County Hanover Approx 12 3 ^{feet}/_{miles} North (direction) of Richmond and 12 4 ^{feet}/_{miles} South (direction) of Ashland

(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 18, 1972 DATE COMPLETED: May 25, 1972

TYPE OF DRILL RIG USED: Air rig TOTAL DEPTH 330 feet

WATER LEVEL: Stands 100 feet below surface OR
has NATURAL flow of 30 gallons per minute.

YIELD TEST: Method air compressor
Drawdown _____ feet
Rate 30 gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 50 feet
6 inches from 50 to 330 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 253 to _____ feet
from 280 to _____ feet
from 300 to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

CASE SIZE: 6 inches from 0 to 214 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

GROUTING: Method pump in
Material cement & Depth 0 - 50 feet

WATER ANALYSIS AVAILABLE: Yes _____ No

PUMP: Type water
Capacity _____ gal per min

DRILL CUTTINGS SAVED: Yes 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)

MARKS: Samples taken at 10 foot intervals

YELLOW TAVERN QUADRANGLE nearby wells 3367 & 2221
ELEV. : 204

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

INTERVAL SHEET

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Well Repository No: W#: 3579
 C#: 149

Date rec'd: 6/19/72 Date Processed: 8/18/72

Sample Interval: from: 0 to: 330'

PROPERTY: Totopotomoy, Inc. #4

Number of samples: 33

COMPANY: Harper P & W Co.

Total Depth: 330'

COUNTY: Hanover
 (Poindexter)

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	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
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	-	-	-

All intervals have both washed & unwashed samples.

OWNER: Topopotomoy, Inc. #4
DRILLER: Harper P & W Co.
COUNTY: Hanover
(Poindexter)

W#: 3579
C#: 149
TOTAL DEPTH: 330'
QUAD: Yellow Tavern

GEOLOGIC LOG

Depth
(feet)

- 0 - 10 Sand -- dark yellowish orange; moderate clay; fine to medium grained, 5% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; granite fragments (pebbles); few flakes of biotite; few opaques.
- 10 - 20 As above except 15% granite pebbles.
- 20 - 30 Sand -- dark yellowish orange; slightly stained; slightly clayey; medium grained, some coarse grains, some granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 30 - 40 Sand -- dark yellowish orange; moderate clay; fine to medium grained, 5% pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; granite fragments; few opaques.
- 40 - 50 As above.
- 50 - 60 Clay -- olive light gray; moderate sand; fine grained; subangular to subrounded; well sorted; quartz; some black phosphatic material; few flakes of muscovite; biotite.
- 60 - 70 As above.
- 70 - 80 Clay -- light gray; few grains of quartz.
- 80 - 90 As above.
- 90 - 100 As above plus few flakes of muscovite.
- 100 - 110 Clay -- light gray
- 110 - 120 As above.
- 120 - 130 As above.
- 130 - 140 Clay -- light gray; abundant sand; medium grained to granular; subangular to subrounded; moderately sorted; quartz; some feldspar.
- 140 - 150 As above plus some pebbles.
- 150 - 160 As above plus some fine grains.

Depth
(feet)

- 160 - 170 Granite (heavily weathered) -- dusky yellow; moderate clay; quartz; white potassic feldspar; some muscovite.
- 170 - 180 Granite (heavily weathered) -- light brown; moderate clay - light brown, medium light gray; quartz; white potassic feldspar; 15% muscovite; few flakes of biotite.
- 180 - 190 Granite (weathered) -- light olive gray; slightly clayey; quartz; white potassic feldspar; 25% weathered biotite; some muscovite.
- 190 - 200 Granite (slightly weathered) -- salt and pepper; 40% biotite; 25% muscovite; quartz; white potassic feldspar.
- 200 - 210 Granite -- medium gray, white, black, quartz; white potassic feldspar; 20% biotite; sodic plagioclase; muscovite.
- 210 - 220 Granite -- medium light gray; quartz; white potassic feldspar; 30% biotite; few grains of garnet.
- 220 - 230 Granite -- medium dark gray, white; quartz; white potassic feldspar; 30% biotite; few grains of pyrite.
- 230 - 240 As above except 40% biotite; some muscovite.
- 240 - 250 Granite -- medium light gray, black, white; quartz; white potassic feldspar; 35% biotite; 2% muscovite; few grains of pyrite.
- 250 - 260 As above plus pink microcline; 10% muscovite.
- 260 - 270 Granite -- salt and pepper; quartz; white potassic feldspar; 40% biotite; 7% muscovite; pink microcline; some pyrite.
- 270 - 280 Granite gneiss -- medium gray; quartz; white potassic feldspar; 30% biotite; 5% muscovite; some pyrite.
- 280 - 290 Granite gneiss -- medium gray, black, white; quartz; white potassic feldspar; 25% biotite; 5% muscovite; pink microcline; few grains of garnet; pyrite.
- 290 - 300 Granite -- salt and pepper; quartz; white potassic feldspar; 40% biotite; 3% muscovite; some pyrite; some garnet.
- 300 - 310 As above except no garnet.
- 310 - 320 Granite gneiss -- medium gray; quartz; white potassic feldspar; 25% biotite; 7% muscovite; some pyrite.
- 320 - 330 As above except 35% biotite; 5% muscovite.