

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4895
C#: 199

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Historyland Playground, Inc. Mailing Address: 335 Euclid Avenue, Col. Beach, Va.
22443

TENANT: same Mailing Address: _____

DRILLER: D. W. Van Hoy Mailing Address: Van's Const. Co., Inc. P.O. Box 3306
Fredericksburg, Va. 22401

WELL LOCATION: County Westmoreland Approx. - feet miles _____ (direction) of _____
Lot 94, Riverside Meadows 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 25, 1977 DATE COMPLETED: May 2, 1977

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 510 feet

WATER LEVEL: Stands 100 feet below surface OR

has NATURAL flow of - gallons per minute.

YIELD TEST: Method air

Drawdown 375 feet

Rate 90 gal. per min.

Duration 48 hrs., - min.

WATER ZONES: from 365 to 375 feet

from 425 to 445 feet

from _____ to _____ feet

WATER: Color _____ 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: 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: 26 inches from 0 to 60 feet

14 inches from 60 to 510 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 8 inches from 365 to 375 feet

8 inches from 425 to 445 feet

_____ inches from _____ to _____ feet

CASE SIZE: 8 inches from 0 to 510 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method _____

Material _____ Depth 60 feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

LOG

FURNISHED BY: Van's Construction Co., Inc.

DATE: May 2, 1977

(D. W. Van Hoy)

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	5	Top soil	
5	15	Gravel and clay	
15	60	Clay	
60	160	Black sand	
160	225	Clay	
225	270	Black sand	
270	280	Clay	
280	320	Black sand	
320	365	Clay	
365	375	Red sand	
375	425	Clay	
425	445	Red sand	
445	510	Clay	

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

INTERVAL SHEET

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Well Repository No.: W#: 4895
C#: 199
Sample Interval: from 0 to:500

Date rec'd: 8/29/77 Date Processed: 9/20/77

PROPERTY: Historyland Playground, Inc.

Number of samples: 50

COMPANY: D. Van Hoy

Total Depth: 510'

COUNTY: Westmoreland (Colonial Beach)

Oil or Gas: Water: Exploratory:

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

Unwashed only

OWNER: Historyland Playground, Inc.
DRILLER: D. Van Hoy
COUNTY: Westmoreland
(Colonial Beach)

W#: 4895
C#: 199
TOTAL DEPTH: 510'
QUAD: Colonial Beach North

GEOLOGIC LOG

Depth
(feet)

- 0 - 10 Sand and silt - yellowish gray; moderate silt; abundant sand; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; some feldspar; few flakes of muscovite.
- 10 - 20 Sand and gravel - grayish orange; coarse grained to granular, 50% pebbles (4-16mm); subangular to subrounded; poorly sorted; quartz; feldspar.
- 20 - 30 As above except light olive gray; moderate clay (clasts).
- 30 - 40 Sand and clay - light olive gray; moderate clay; abundant sand; fine grained; subangular to subrounded; well sorted; quartz; some black phosphatic material; few flakes of muscovite.
- 40 - 50 Sand - light olive gray; slightly clayey; fine grained; subangular to subrounded; well sorted; quartz; some black phosphatic material; few flakes of muscovite; bone fragment.
- 50 - 60 Sand - light olive gray; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some glauconite; some black phosphatic material; few flakes of muscovite.
- 60 - 70 Sand - light olive gray; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; 15% glauconite; some muscovite; few shell fragments.
- 70 - 80 Sand - salt and pepper; fine to medium grained; subrounded to rounded; moderately well sorted; quartz; 25% glauconite; some shell fragments; few grains of feldspar; few black phosphatic fragments; muscovite.
- 80 - 90 As above except some muscovite; few shell fragments; no black phosphatic material.
- 90 - 100 As above except 15% glauconite; some shell fragments.
- 100 - 110 As above.
- 110 - 120 Sand - olive light gray; slightly clayey; medium to very coarse grained; subrounded to rounded; moderately sorted; quartz; 40% glauconite; 15% shell fragments; some muscovite.

Depth
(feet)

- 120 - 130 As above except medium grained to granular.
- 130 - 140 Sand - olive light gray; moderate clay; medium to coarse grained, 7% granules; subrounded to rounded; moderately well sorted; 50% glauconite; quartz; 3% shell fragments; some muscovite.
- 140 - 150 As above except 10% granules.
- 150 - 160 As above except 40% glauconite.
- 160 - 170 Sand - olive light gray; slightly clayey; medium to very coarse grained, some granules; subrounded to rounded; moderately sorted; quartz; 25% glauconite; 10% shell fragments; some muscovite.
- 170 - 180 As above except 35% glauconite; 7% shell fragments.
- 180 - 190 Sand - olive light gray; slightly clayey; medium grained; subangular to rounded; well sorted; quartz; 35% glauconite; some muscovite.
- 190 - 200 Sand - olive light gray; slightly clayey; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 25% glauconite; few flakes of muscovite; few shell fragments.
- 200 - 210 No sample.
- 210 - 220 As above except moderate clay.
- 220 - 230 Sand - olive light gray; moderate clay; medium grained, some coarse grains; subangular to subrounded; well sorted; quartz; 20% glauconite; 5% shell fragments; few black phosphatic fragments; muscovite.
- 230 - 240 As above except 15% shell fragments.
- 240 - 250 As above plus 5% sandy limestone fragments.
- 250 - 260 Sand and coquina - olive light gray; slightly clayey; medium to coarse grained; subangular to rounded; moderately well sorted; 50% sandy limestone and shell fragments; quartz; 15% glauconite; few flakes of muscovite.
- 260 - 270 Sand - olive light gray; slightly clayey; fine grained, some medium grains; subangular to rounded; well sorted; quartz; 10% glauconite; 3% muscovite; few shell fragments.
- 270 - 280 Coquina - light olive gray; abundant sand; medium grained; subangular to rounded; well sorted; 50% glauconite; quartz.

Depth
(feet)

- 280 - 290 As above except slightly clayey; few flakes of muscovite; forams rare (inc. Nodosaria).
- 290 - 300 As above plus some moderate orange pink clay (clasts).
- 300 - 310 As above except no clay; forams scarce (inc. Nodosaria).
- 310 - 320 As above plus some granules; forams (inc. Nodosaria).
- 320 - 330 Coquina - light olive brown; slightly clayey; abundant sand; medium grained; subangular to rounded; well sorted; quartz; 30% shell fragments; 30% glauconite; few flakes of muscovite; forams (inc. Nodosaria).
- 330 - 340 Sand - olive light gray; medium grained; subangular to subrounded; well sorted; quartz; 40% glauconite; some sandy limestone and shell fragments; few flakes of muscovite; forams scarce (inc. Robulus and Buccella).
- 340 - 350 Sand and coquina - light olive brown; moderate clay; medium grained, some fine grains; subangular to rounded; well sorted; 40% sandy limestone and shell fragments; quartz; 30% glauconite; few flakes of muscovite.
- 350 - 360 As above.
- 360 - 370 Sand - light olive gray; slightly clayey; fine grained to granular; subangular to subrounded; poorly sorted; quartz; 2% glauconite; some feldspar; few flakes of muscovite.
- 370 - 380 Granules - light olive gray; slightly clayey; moderate sand; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% sandy limestone and shell fragments; some glauconite; few flakes of muscovite.
- 380 - 390 Sand - moderate yellowish brown; moderately to heavily stained; coarse grained; subrounded; well sorted; quartz; feldspar; some glauconite; few shell fragments; muscovite.
- 390 - 400 Clay and sand - light olive brown; abundant clay; moderate sand; fine grained to granular; subangular to subrounded; poorly sorted; quartz; feldspar; 5% sandy limestone and shell fragments; 2% glauconite; few flakes of muscovite.
- 400 - 410 As above.
- 410 - 420 Clay - dusky yellow; slightly sandy; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; some glauconite.

Depth
(feet)

- 420 - 430 As above plus few flakes of muscovite.
- 430 - 440 As above.
- 440 - 450 Clay - olive light gray, dusky yellow; abundant sand; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 30% glauconite; 15% sandy limestone and shell fragments; few flakes of muscovite.
- 450 - 460 Clay - dusky yellow; slightly sandy; medium grained; subangular to rounded; well sorted; quartz; glauconite 50% of sand fraction; 10% sandy limestone fragments.
- 460 - 470 Sand - light yellowish brown; 50% stained grains; medium grained; subangular to subrounded; well sorted; quartz; feldspar; 5% glauconite; few flakes of muscovite.
- 470 - 480 Clay - dusky yellow; some quartz sand ; some glauconite; few sandy limestone fragments; muscovite.
- 480 - 490 Clay - dusky yellow, olive light gray; moderate sand; medium grained; subangular to rounded; well sorted; quartz; glauconite 20% of sand fraction; few flakes of muscovite.
- 490 - 500 As above except dusky yellow, light gray, white; some shell fragments.
- 500 - 510 No Sample.

Note: Some samples are very small and may not be representative.

Logged by: Michael T. Currie
May 11, 1979

GEOLOGIC SUMMARY

<u>Depth</u> (feet)	<u>Thickness</u> (feet)	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0- 30	30	Columbia Group	Pleistocene
30- 60	30	Calvert Formation	Miocene
60-500	440	Nanjemoy-Aquia Formation	Eocene-Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES

David A. Hubbard, Jr., Geologist

June 29, 1979