

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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: Properties Unlimited, Inc. Mailing Address: 17 E. Cary St. Richmond, VA.

TENANT: Hanover Village Shopping Center Mailing Address: Same

DRILLER: Atlantic Pump & Equipment Co., Inc. Mailing Address: P.O. Box 4009 Richmond, VA

WELL LOCATION: County Hanover Approx. 100 ^{feet}/_{miles} East (direction) of St. Rd. 643 and 1000 ^{feet}/_{miles} South (direction) of U.S. Hwy 360

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

DATE STARTED: November 1, 1972 DATE COMPLETED: January 18, 1973

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

WATER LEVEL: Stands 162 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible Pump
Drawdown 48 feet
Rate 150 gal. per min.
Duration 24 hrs., _____ min.

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

WATER ZONES: from 272 to 292 feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 6 inches from 272 to 292 feet
_____ inches from _____ to _____ feet

WATER: Color Clear Taste None
Odor None Temp. 68 °F

CASE SIZE: 6 inches from 0 to 272 feet
6 inches from 292 to 312 feet
_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry XX NN Other _____

GROUTING: Method Pressure Pump
Material Cement Depth 56 feet

WATER ANALYSIS AVAILABLE: Yes XX No _____
DRILL CUTTINGS SAVED: 31 Yes XX No _____

PUMP: Type Submersible
Capacity 80 gal per min
Depth of intake 252 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: Atlantic Pump & Equipment Co., Inc.

DATE: January 20, 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	20	Yellow sandy clay	
20	40	Yellow sandy clay w/grit	
40	50	Yellow sand w/clay fine to med grit	
50	70	Med some sand some grit	
70	85	Some gray clay	
85	90	Gray clay some grit	
90	125	Black sand some grit	
125	128	Some sand some gravel	
128	170	Blue marl streaks of hard pand	
170	315	Med to course grit w/lump of yellow clay	
315	330	?	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No: W#: 3782
 C#: 160

Date rec'd: 2/20/73 Date Processed: 6 /15/73

Sample Interval: from: to:

PROPERTY: Properties Unlimited, Inc.
 (Hanover Village Shopping Center)

Number of samples: 26 0 310

COMPANY: Atlantic P & E Co.

Total Depth: 330

COUNTY: Hanover
 (Mechanicsville)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 60	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	310-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 10	-	-	-
110 - 20	-	-	-
120 - 30	-	-	-
-	-	-	-
140 - 50	-	-	-
150 - 60	-	-	-
160 - 70	-	-	-
170 - 80	-	-	-
180 - 90	-	-	-
190 - 200	-	-	-
200 - 10	-	-	-
210 - 20	-	-	-
220 - 30	-	-	-
230 - 40	-	-	-
240 - 50	-	-	-

Unwashed only.

OWNER: Properties Unlimited, Inc.
(Hanover Village Shipping Center)
DRILLER: Atlantic P & E Co.
COUNTY: Hanover

W#: 3782
C#: 160
TOTAL DEPTH: 330'
QUAD: Seven Pines

GEOLOGIC LOG

Depth
(feet)

- 0 - 10 Sand -- dark yellowish orange; slightly clayey; medium grained; subangular to subrounded; well sorted; quartz; feldspar; few opagues.
- 10 - 20 As above plus some pale purple clay; some fine grains.
- 20 - 30 Gravel and sand -- grayish orange; slightly stained; medium grained to granular, 50% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opagues; few grains of glauconite.
- 30 - 40 As above.
- 40 - 50 Sand -- grayish orange; medium to very coarse grained, 10% granules, 5% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 50 - 60 As above except no pebbles; few grains of glauconite.
- 60 - 70 Sand -- grayish orange; medium to coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few opagues.
- 70 - 80 As above except dusky yellow.
- 80 - 90 As above except medium to very coarse grained; few flakes of muscovite.
- 90 - 100 Sand -- dusky yellow green; some stained grains; fine to medium grained, few granules; subangular to rounded; moderately well sorted; quartz; 25% glauconite; some black phosphatic material, few grains of feldspar.
- 100 - 110 As above plus some coarse grains; 40% glauconite; few black phosphatic fragments; no feldspar.
- 110 - 120 As above except slightly clayey; 50% glauconite.
- 120 - 130 As above.
- 130 - 140 No sample.
- 140 - 150 Sandy clay and granules -- olive light gray; abundant sand; medium grained, some coarse grains, 50% granules; subangular to rounded; moderately sorted; quartz; glauconite 60% of sand sized fraction; feldspar; few black phosphatic fragments; muscovite.

Depth
(feet)

- 150 - 160 As above except 35% pebbles.
- 160 - 170 Gravel -- light olive gray; slightly clayey; moderate sand; coarse grained to granular; subrounded; moderately well sorted; quartz; feldspar, few flakes of muscovite; glauconite.
- 170 - 180 Sand -- light olive gray; slightly clayey; coarse grained to granular, some medium grains, 15% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 3% glauconite; few shell fragments; few flakes of muscovite.
- 180 - 190 Sand and gravel -- light olive gray; coarse grained to granular, 60% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 2% glauconite; few flakes of muscovite.
- 190 - 200 Gravel -- light olive gray; moderate sand; very coarse grained to granular; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 200 - 210 As above.
- 210 - 220 Sand -- light olive gray; coarse grained to granular, some medium grains, 5% pebbles; subrounded; moderately sorted; quartz; feldspar; some glauconite; few grains of garnet; muscovite.
- 220 - 230 As above except 10% pebbles; no medium grains.
- 230 - 240 Sand -- light olive gray; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 240 - 250 As above except 5% pebbles; few grains of garnet.
- 250 - 260 Gravel -- light olive gray; some granules; subangular to subrounded; well sorted; quartz; feldspar.
- 260 - 300 No sample.
- 300 - 310 Sand and granules -- light olive gray; coarse to very coarse grained, 50% granules, 10% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 310 - 330 No sample.

NOTE: All samples are unwashed.

Logged by: Michael T. Currie
Feb. 9, 1979