

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-4890
C-188

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: Investors Management Group Mailing Address: Nine West Mulberry Street
Baltimore, Maryland 21201

TENANT: Cold Harbor Village #1 Mailing Address: _____

DRILLER: Sydnor Hydrodynamics, Incorporated Mailing Address: P. O. Box 27186
Richmond, Virginia 23261

WELL LOCATION: County Hanover Approx. 2000 ^{feet}/_{miles} southeast (direction) of _____
U. S. Highway 360 and 2000 ^{feet}/_{miles} southwest (direction) of State Route 156

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

DATE STARTED: July 8, 1977 DATE COMPLETED: July 29, 1977

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 318 feet

WATER LEVEL: Stands 151'10" feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pump

Drawdown 36 feet

Rate 55 gal. per min.

Duration 48 hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 318 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 216 to 236 feet

6 inches from 256 to 271 feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from +2 to 216 feet

6 inches from 236 to 256 feet

6 inches from 271 to 318 feet

WATER ZONES: from _____ to _____ feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

GROUTING: Method yes

Material _____ Depth 50 feet

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other subdivision

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes No _____

By: Froehling and Robertson

DRILL CUTTINGS SAVED: Yes 32 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: Electric log by driller.

LOG

FURNISHED BY: T. R. Vires

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	8	Brown clay	
8	16	Red sand	
16	243	Tough blue clay with gravel	
243	252	Medium coarse gray sand	
252	277	Sand, gravel with clay streaks	
277	315	Tough clay with streaks of sand and gravel	
315	318	Rock	

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

INTERVAL SHEET

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Well Repository No.: C-188 W-4890

Date rec'd: 08/29/77 Date Processed: 09/19/77

Sample Interval: from 0 to: 318

PROPERTY: Investors Management Group

Number of samples: 32

COMPANY: Sydnor Hydrodynamics

Total Depth: 318'

COUNTY: Hanover (Mechanicsville)

Oil or Gas: Water: x Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	303-13	-	-	-
10-20	13-18	-	-	-
20-30	-	-	-	-
30-40	-	-	-	-
40-50	-	-	-	-
50-60	-	-	-	-
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	-	-	-	-
30-43	-	-	-	-
43-53	-	-	-	-
53-63	-	-	-	-
63-73	-	-	-	-
73-83	-	-	-	-
83-93	-	-	-	-
93-303	-	-	-	-
-	Washed and unwashed samples	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

(Cold Harbor Village #1)
OWNER : Investors Management Group
DRILLER: Sydnor Hydrodynamics
COUNTY : Hanover (Mechanicsville)

W# : 4890
C# : 188
TOTAL DEPTH: 318'
QUAD : Seven Pines

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand- grayish-orange; slightly clayey; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques.
- 10-20 As above plus some ferricrete.
- 20-30 As above except yellowish-gray; few opaques; few flakes of muscovite.
- 30-40 Sand- light olive gray; slightly clayey; fine to medium grained; subangular to subrounded; well sorted; quartz; some ferricrete; few grains of feldspar; few opaques; muscovite.
- 40-50 As above plus few granules; moderately well sorted.
- 50-60 Sand- light olive gray; moderate clay; fine grained, some medium grains, few granules; subangular to subrounded; well sorted; quartz; few fragments of ferricrete; few opaques.
- 60-70 Sand and clay- light olive gray; moderate clay; abundant sand; fine to medium grained, 3% granules; subangular to subrounded; moderately well sorted; quartz; some ferricrete; few black phosphatic fragments.
- 70-80 Sand and clay- light olive gray; moderate clay; abundant sand; fine to medium grained, 7% granules, 15% pebbles; subangular to subrounded; moderately sorted; quartz; few opaques; glauconite; few black phosphatic fragments.
- 80-90 As above except few granules, 5% pebbles; some black phosphatic material; some glauconite.
- 90-100 Sand- yellowish-gray; slightly clayey; slightly silty; medium to coarse grained, some fine grains, some granules; few pebbles; subangular to subrounded; moderately sorted; quartz; 3% glauconite; 2% black phosphatic material inc. shark's tooth; few flakes of muscovite.
- 100-110 Sand- light olive gray; abundant clay; fine to medium grained, few granules, 5% pebbles; subangular to rounded; moderately sorted; quartz; 15% glauconite; few black phosphatic fragments; muscovite.

(Cold Harbor Village #1)

OWNER: Investors Management Group

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Depth
(feet)

- 110-120 Sand- light olive gray; abundant clay- light olive gray, very light gray; fine to medium grained, few pebbles; subangular to subrounded; moderately well sorted; quartz; 3% glauconite; few flakes of muscovite; few black phosphatic fragments inc. shark's tooth.
- 120-130 Sand and clay- olive light gray, very light gray (clasts); moderate clay; abundant sand; fine to medium grained, some granules, some pebbles; subangular to subrounded; moderately well sorted; quartz; 5% glauconite; 2% shell fragments; few flakes of muscovite; forams scarce (inc. Robulus).
- 130-140 Sand- olive light gray; slightly clayey; slightly silty; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; 7% glauconite; 2% shell fragments; some muscovite; few black phosphatic fragments; forams (inc. Robulus, Nodosaria, and Dentalina).
- 140-150 Sand- olive light gray; slightly clayey; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 3% shell fragments; some muscovite; few black phosphatic fragments; forams (inc. Robulus).
- 150-160 Sand- light olive gray; slightly clayey; medium grained to granular, some fine grains, 5% pebbles; angular to subrounded; poorly sorted; quartz; 7% glauconite; some shell fragments; few flakes of muscovite; pyrite.
- 160-170 As above except 10% pebbles; 3% glauconite; no pyrite.
- 170-180 Sand- light olive gray; coarse grained to gravel (20%); some medium grains; angular to subrounded; poorly sorted; quartz; feldspar; 5% glauconite; 2% shell fragments; few flakes of muscovite.
- 180-190 As above except 10% pebbles; some shell fragments.
- 190-200 As above except 20% pebbles; 2% glauconite; few shell fragments.
- 200-210 Sand- light olive gray; coarse to very coarse grained, 15% granules, 7% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; some shell fragments; few flakes of muscovite.
- 210-220 As above except 10% granules, 10% pebbles.
- 220-230 As above except yellowish-gray; some glauconite.

(Cold Harbor Village #1)

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Depth
(feet)

- 230-243 Sand- yellowish-gray; coarse grained to granular, 7% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; some shell fragments; few flakes of muscovite.
- 243-253 Sand- yellowish-gray; coarse grained, some fine grains, some medium grains; subangular to subrounded; moderately well sorted; quartz; feldspar; 3% glauconite; few shell fragments; muscovite.
- 253-263 Sand- yellowish-gray; coarse to very coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% glauconite; few shell fragments; muscovite.
- 263-273 As above plus some silt; some medium grains; few granules.
- 273-283 As above except some granules; few grains of garnet.
- 283-293 As above plus some fine grains; moderately sorted; some glauconite.
- 293-303 Sand- light olive gray; some silt; coarse grained to granular (25%), some medium grains; subangular to subrounded; moderately sorted; quartz; feldspar; some biotite; few grains of garnet; glauconite; muscovite.
- 303-313 As above except 7% granules; few flakes of biotite.
- 313-318 Granite (weathered)- light olive gray; slightly clayey; quartz; white potassic feldspar; some biotite; few flakes of muscovite.

Logged by: Michael T. Currie
June 7, 1979