

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-5081
C-192

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: Hanover Water Company Mailing Address: Route 1 Box 241 Mechanicsville, Virginia 23111

TENANT: Craney Island Subdivision #3 Mailing Address: P. O. Box 27186

DRILLER: Sydnor Hydrodynamics, Incorporated Mailing Address: Richmond, Virginia 23261

WELL LOCATION: County Hanover Approx. 80 ^{feet}/_{miles} west (direction) of
State Route 1207 and 500 ^{feet}/_{miles} south (direction) of State Route 1206

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

DATE STARTED: September 19, 1977 DATE COMPLETED: November 10, 1977

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 402 feet

WATER LEVEL: Stands 163 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pump
Drawdown 82 feet
Rate 8 gal. per min.
Duration 2 hrs., _____ min.

HOLE SIZE: 11 inches from 0 to 234 feet
6 inches from 234 to 402 feet
_____ inches from _____ to _____ feet

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ 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 +2 to 234 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

GROUTING: Method _____
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes X No _____
By: Froehling and Robertson
DRILL CUTTINGS SAVED: Yes 41 No _____

PUMP: Type _____
Capacity _____ gal. per min
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: Electric log by driller.

LOG

FURNISHED BY: Lonnie Cox

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	14	Yellow sand and clay	
14	22	Gravel and clay	
22	28	Tough yellow clay	
28	150	Blue marl	
150	170	Big gravel	
170	182	Big gravel and clay	
182	232	Gray clay with some gravel	
232	252	Gray granite	
252	360	Gray granite with streaks of red	
360	374	Red granite	(Water 8 gpm)
374	377	Soft gray shale	
377	402	Red granite with streaks of gray	

(Craney Island Subdivision #3)
OWNER : Hanover Water Company W# : 5081
DRILLER: Sydnor Hydrodynamics, Inc. C# : 192
COUNTY : Hanover (Atlee) TOTAL DEPTH: 402'
QUAD : Yellow Tavern

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand- moderate yellowish-brown; slightly clayey; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 10-20 Granules and sand- dark yellowish-orange; moderate clay; medium to coarse grained, 50% granules, 15% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some ferricrete; some opaques.
- 20-30 Clay and sand- light olive gray, dark yellowish-orange (mottled); abundant clay; moderate sand; fine to coarse grained, some granules, some pebbles; subangular to subrounded; poorly sorted; quartz; some feldspar; few black phosphatic fragments.
- 30-40 Clay- light olive gray; abundant sand; medium to coarse grained, some fine grains, few pebbles; subangular to subrounded; moderately sorted; quartz; some shell fragments; few black phosphatic fragments.
- 40-50 Clay- olive light gray; slightly sandy; fine grained, some medium grains; subangular to subrounded; well sorted; 10% shell fragments; quartz; few flakes of muscovite.
- 50-60 Sand and clay- olive light gray; moderate clay; abundant sand; fine grained; subangular to subrounded; well sorted; quartz; 20% shell fragments; few black phosphatic fragments; glauconite.
- 60-70 Clay- olive light gray; slightly silty; slightly sandy; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 3% shell fragments; some glauconite; few black phosphatic fragments.
- 70-80 As above plus few echinoid spines; large bone fragment.
- 80-90 As above except some black phosphatic material; no bone fragment.
- 90-100 Clay- yellowish-gray, light olive gray; some fine grained quartz sand; some shell fragments; few grains of glauconite; few black phosphatic fragments.

Depth
(feet)

- 100-110 Clay- yellowish-gray; some fine grained quartz sand; few flakes of muscovite.
- 110-120 As above plus few grains of glauconite.
- 120-130 As above.
- 130-140 Clay- olive light gray, yellowish-gray; abundant sand; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; some shell fragments; few grains of glauconite; few black phosphatic fragments; muscovite.
- 140-150 Sand- olive gray; moderate clay; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; some glauconite; muscovite; few black phosphatic fragments; few shell fragments.
- 150-160 Granules and sand- off-white; very coarse grained, 60% granules, 3% pebbles; angular to subrounded; moderately well sorted; quartz; feldspar.
- 160-170 Sand- off-white; coarse grained to granular, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few shell fragments.
- 170-180 Sand and granules- off-white; slightly silty; coarse to very coarse grained, 40% granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few shell fragments.
- 180-190 As above except slightly clayey.
- 190-200 Sand- yellowish-gray; slightly clayey; coarse grained to granular; subangular to subrounded; moderately sorted; quartz; feldspar; few shell fragments; muscovite.
- 200-210 Sand- light olive gray; slightly clayey; very coarse grained, 5% granules; subangular to subrounded; well sorted; quartz; feldspar; few shell fragments.
- 210-220 Sand and gravel- yellowish-gray; moderate clay; medium grained to granular, 50% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few flakes of muscovite.
- 220-230 Granite (heavily weathered)- yellowish-gray; moderate clay; quartz; pink microcline; white potassic feldspar; some biotite; some muscovite.

Depth
(feet)

- 230-237 As above except slightly clayey; few flakes of biotite.
- 237-240 Granite- white; quartz; white potassic feldspar; 7% biotite; pink microcline; some muscovite.
- 240-250 As above plus few grains of garnet.
- 250-260 Granite (slightly weathered)- pale yellowish-brown; quartz; white potassic feldspar; pink microcline; 3% biotite; some muscovite.
- 260-270 Granite- yellowish-gray, grayish-orange pink; quartz; pink microcline; white potassic feldspar; 5% biotite; few flakes of muscovite.
- 270-280 Granite (weathered)- yellowish-gray; slightly clayey; quartz; white potassic feldspar; 5% biotite; few flakes of muscovite.
- 280-290 Granite- pale yellowish-brown; quartz; white potassic feldspar; pink microcline; 3% biotite; few flakes of muscovite.
- 290-300 As above except yellowish-gray; few grains of pink microcline.
- 300-310 Granite- grayish-orange, moderate orange pink; pink microcline; quartz; white potassic feldspar; 5% biotite; few flakes of muscovite; pyrite.
- 310-320 As above except no pyrite.
- 320-330 As above.
- 330-340 As above.
- 340-350 Granite- off-white, moderate orange pink; quartz; white potassic feldspar; pink microcline; 7% biotite; few flakes of muscovite.
- 350-360 As above.
- 360-370 Granite- very dark yellowish-orange; pink microcline; quartz; white potassic feldspar; 3% biotite; few flakes of muscovite.
- 370-380 Granite- moderate orange pink, light gray; pink microcline; quartz; white potassic feldspar; 5% biotite; few flakes of muscovite; pyrite.

(Craney Island Subdivision #3)
OWNER: Hanover Water Company

-4-

W#: 5081

Depth
(feet)

380-390 Granite- moderate orange pink, off-white, black; quartz; pink microcline; 15% biotite; 3% muscovite; some white potassic feldspar.

390-402 Granite- moderate orange pink, off-white, medium gray; pink microcline; quartz; white potassic feldspar; 5% biotite; 2% muscovite.

Logged by: Michael T. Currie
July 3, 1979