

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: Continental Telephone Company Mailing Address: P. O. Box 15007
Richmond, Virginia 23227

TENANT: _____ Mailing Address: _____

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

WELL LOCATION: County Hanover Approx. 700 feet miles south (direction) of _____
U. S. Highway 360 and 200 feet miles west (direction) of State Route 615

(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 3, 1978 DATE COMPLETED: April 28, 1978

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 370 feet

WATER LEVEL: Stands 166'6" feet below surface OR Completed at 356 feet
has NATURAL flow of _____ gallons per minute

YIELD TEST: Method pump HOLE SIZE: 12 inches from 0 to 370 feet
Drawdown 51 feet _____ inches from _____ to _____ feet
Rate 75 gal. per min. _____ inches from _____ to _____ feet
Duration 48 hrs., _____ min.

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ to _____ feet
SCREEN SIZE: 6 inches from 273 to 278 feet
6 inches from 336 to 351 feet
_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F
CASE SIZE: 6 inches from +2 to 273 feet
6 inches from 278 to 336 feet
6 inches from 351 to 356 feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry X Other _____
GROUTING: Method yes
Material _____ Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes X No _____
By: State Lab and Froehling and Robertson
PUMP: Type _____ Capacity _____ gal per min
DRILL CUTTINGS SAVED: Yes 37 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.)

REMARKS: Electric logs by driller.

LOG

FURNISHED BY: Charles Mitchell

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	15	Light gray clay	
15	35	Light yellow sand clay	
35	55	Silty yellow sand clay	
55	75	Coarse brown sand, gravel and clay	
75	122	Blue clay	
122	124	Hard shells	
124	142	Gray sand	
142	185	Dark gray clay with some shells	
185	215	Gray clay, black silty sand and few shells	
215	217	Gray clay	
217	228	Red and brown clay with some shells	
228	245	Dark gray clay	
245	256	Black clay and shells	
256	268	Hard gravel	
268	280	Hard green sand clay	
280	298	Sand clay with sand streaks	
298	301	Green clay	
301	335	Hard sand with some gravel and clay	
335	350	Soft sand clay	
350	370	Gray sand clay	

OWNER : Continental Telephone Company W# : 5317
DRILLER: Sydnor Hydrodynamics, Inc. C# : 197
COUNTY : Hanover (Newmans) TOTAL DEPTH: 370'
QUAD : Studley

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand- yellowish-gray; moderate clay; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques.
- 10-20 Sand- pale yellowish-orange; slightly clayey; medium to coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques.
- 20-30 Sand- dark yellowish-orange; slightly stained; moderate clay; medium grained to granular; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
- 30-40 Granules- dark yellowish-orange; slightly to moderately stained; slightly clayey; some very coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar.
- 40-50 As above except granules and sand; coarse to very coarse grained, 65% granules; poorly sorted.
- 50-60 As above.
- 60-70 Granules- dark yellowish-orange; some very heavily stained grains; slightly clayey; moderate sand; coarse to very coarse grained; subrounded; moderately well sorted; quartz; feldspar; few fragments of ferricrete.
- 70-80 Sand and gravel- dark yellowish-orange; slightly clayey; coarse to very coarse grained, some medium grains, 5% granules, 50% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some ferricrete; some opaques.
- 80-90 As above except grayish-orange; medium to coarse grained, 60% pebbles; 2% ferricrete.
- 90-100 Sand- olive light gray; some stained grains; medium to coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; some feldspar; few flakes of muscovite; few opaques.
- 100-110 Clay- olive light gray; some stained grains; moderate silt; abundant sand; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; few fragments of ferricrete.

Depth
(feet)

- 110-120 Sand- light olive gray; some stained grains; abundant clay; moderate silt; medium to coarse grained, some fine grains; subangular to subrounded; moderately well sorted; quartz; few grains of feldspar; few black phosphatic fragments.
- 120-130 Sand- yellowish-gray; slightly clayey; coarse to very coarse grained, some medium grains, some granules; subrounded; moderately well sorted; quartz; feldspar; 2% shell fragments; some black phosphatic material.
- 130-140 Sand- off-white; coarse grained; subrounded; well sorted; quartz; feldspar; few black phosphatic fragments; few shell fragments.
- 140-150 Sand- light olive gray; slightly clayey; coarse grained; subrounded; well sorted; quartz; feldspar; 3% glauconite; some black phosphatic material; some shell fragments; few grains of garnet.
- 150-160 Sand- olive gray; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 40% glauconite (black and green); 2% limestone and shell fragments; some black phosphatic material; some muscovite; bone fragment.
- 160-170 As above except 5% shell fragments; few black phosphatic fragments.
- 170-180 Clay and sand- olive light gray; abundant clay; moderate sand; moderate silt; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 25% glauconite; 5% shell fragments; 2% muscovite.
- 180-190 As above plus 3% black phosphatic material.
- 190-200 As above except 3% shell fragments; few black phosphatic fragments.
- 200-210 Clay- olive light gray; moderate silt; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 20% glauconite; 3% shell fragments; 2% muscovite; some black phosphatic material; forams scarce (inc. Robulus).
- 210-220 Clay- grayish-orange pink, light olive gray, light gray; moderate sand; fine to coarse grained; subangular to rounded; moderately sorted; quartz; glauconite 15% of sand fraction; 5% shell fragments; some muscovite; few black phosphatic fragments; forams (inc. Robulus).

Depth
(feet)

- 220-230 As above except slightly sandy; 2% shell fragments; forams rare (inc. Robulus).
- 230-240 Clay and sand- olive light gray; abundant clay; moderate sand; slightly silty; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 5% shell fragments; some muscovite; forams rare (inc. Robulus).
- 240-250 Sand- olive gray; moderate clay; fine to medium grained; subangular to rounded; well sorted; quartz; 40% glauconite; 5% shell fragments; some muscovite.
- 250-260 Sand- olive light gray; moderate clay; fine to medium grained, some granules, some pebbles; subangular to rounded; moderately sorted; quartz; glauconite 30% of sand fraction; 30% shell fragments; few flakes of muscovite; forams rare (inc. Robulus).
- 260-270 Sand and gravel- off-white; very coarse grained to granular, 50% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; some shell fragments.
- 270-280 Granules- off-white; moderate sand; very coarse grained, 5% pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; some shell fragments; few grains of glauconite.
- 280-290 Sand- off-white; very coarse grained; subrounded; well sorted; quartz; feldspar; some glauconite; few shell fragments.
- 290-300 As above.
- 300-310 As above plus few granules; few grains of glauconite; no shell fragments.
- 310-320 Granules and sand- off-white; very coarse grained, 60% granules; subrounded; well sorted; quartz; feldspar; few grains of glauconite.
- 320-330 As above except granules; moderate sand.
- 330-340 As above plus 5% pebbles.
- 340-350 Sand and gravel- off-white; coarse to very coarse grained, 5% granules, 35% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few flakes of muscovite.

OWNER: Continental Telephone Company

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Depth
(feet)

- 350-360 Sand- off-white; coarse grained to granular, some medium grains; subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 360-370 As above except coarse to very coarse grained, some medium grains, 5% granules.

Logged by: Michael T. Currie
July 10, 1979