

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Fred D. Tharps Mailing Address: Route 6 Mechanicsville, Virginia 23111

TENANT: _____ Mailing Address: P. O. Box 27186

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

WELL LOCATION: County Hanover Approx. 3000 ^{feet}/_{miles} southeast (direction) of _____
Creighton Road and 1/2 ^{feet}/_{miles} northeast (direction) of Chickahominy River

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

DATE STARTED: June 1, 1977 DATE COMPLETED: June 13, 1977

TYPE OF DRILL RIG USED: _____ TOTAL DEPTH 306 feet

WATER LEVEL: Stands 98 feet below surface OR Completed at 285 feet

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method airlift

Drawdown 125 feet

Rate 20 gal. per min.

Duration 1 hrs., _____ min.

HOLE SIZE: 10 inches from 0 to 20 feet

6 3/4 inches from 20 to 306 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 4 inches from 242 to 247 feet

4 inches from 272 to 282 feet

_____ inches from _____ to _____ feet

CASE SIZE: 4 inches from +1 to 242 feet

4 inches from 247 to 272 feet

4 inches from 282 to 285 feet

WATER ZONES: from _____ to _____ feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other _____

GROUTING: Method yes

Material _____ Depth 20 feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

Capacity _____ gal per min

DRILL CUTTINGS SAVED: Yes 31 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 log by driller.

LOG

FURNISHED BY: Thomas 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	12	Sandy soil	
12	55	Blue marl; gravel	
55	113	Blue marl	
113	135	Coarse sand; gravel with dark clay	
135	265	Hard sand; gravel and clay	
265	305	Hard sand; gravel and clay (some soft streaks)	

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INTERVAL SHEET

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C-187
Well Repository No.: W-4919

Date rec'd: 08/29/77 Date Processed: 11/09/77

Sample Interval: from 0 to: 306

PROPERTY: Fred D. Tharps

Number of samples: 31

COMPANY: Sydnor Hydrodynamics

Total Depth: 306'

COUNTY: Hanover (Mechanicsville)

Oil or Gas: Water: x Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	-	-	-	-
10-20	-	-	-	-
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	-	-	-	-
30-40	-	-	-	-
40-50	-	-	-	-
50-60	-	-	-	-
60-70	-	-	-	-
70-80	-	-	-	-
80-90	-	-	-	-
90-306	-	-	-	-
300-306	-	Washed and unwashed samples	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

OWNER : Fred D. Tharps
DRILLER: Sydnor Hydrodynamics
COUNTY : Hanover

W# : 4919
C# : 187
TOTAL DEPTH: 306'
QUAD : Seven Pines

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand- yellowish-gray; slightly clayey; moderate silt; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 10-20 Sand and clay- olive light gray; moderate clay; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 20% glauconite; some muscovite; some shell fragments.
- 20-30 As above except clay and sand; 15% glauconite.
- 30-40 Clay and sand- olive light gray, light brown; abundant clay; moderate sand; fine to coarse grained; subangular to rounded; moderately sorted; quartz; 20% glauconite; some black phosphatic material; some shell fragments; muscovite.
- 40-50 Clay- light olive gray, light gray; moderate sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; glauconite 20% of sand sized fraction; some muscovite.
- 50-60 As above.
- 60-70 Clay and sand- olive light gray; abundant clay; moderate sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 35% glauconite; some muscovite; some shell fragments.
- 70-80 As above except 2% shell fragments.
- 80-90 Sand and clay- olive light gray; moderate clay; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 15% glauconite; some muscovite; some shell fragments.
- 90-100 Sand and clay- olive light gray; moderate clay- olive light gray, greenish-yellow, white, moderate orange pink; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 10% shell fragments; few flakes of muscovite; shark's tooth.

Depth
(feet)

- 100-110 Gravel and sand- light olive gray; moderate clay; coarse grained to granular, some medium grains, 60% pebbles; subangular to subrounded; poorly sorted; quartz; 3% glauconite; some shell fragments; some feldspar; muscovite; large black phosphatic pebble.
- 110-120 As above except no black phosphatic material.
- 120-130 Gravel- light olive gray; moderate sand; slightly clayey; coarse grained to granular; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few flakes of muscovite; few shell fragments.
- 130-140 As above.
- 140-150 As above except gravel and sand; fine grained to granular, 60% pebbles; poorly sorted; few black phosphatic fragments.
- 150-160 Gravel- light olive gray; slightly clayey; slightly sandy; coarse grained to granular; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few shell fragments; muscovite.
- 160-170 As above except moderate sand.
- 170-180 Sand and gravel- light olive gray; coarse grained to granular, 35% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some glauconite; muscovite; few grains of garnet.
- 180-190 As above except 40% pebbles.
- 190-200 As above plus some silt.
- 200-210 Gravel and sand- dusky yellow; slightly clayey; coarse grained to granular, 60% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite; muscovite; few shell fragments.
- 210-220 Sand- dusky yellow; some heavily stained grains; coarse grained, some very coarse grains, 2% granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few flakes of muscovite; few shell fragments.
- 220-230 Sand- yellowish-gray; medium to coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% glauconite; few flakes of muscovite; few shell fragments.

Depth
(feet)

- 230-240 As above.
- 240-250 Sand- yellowish-gray; some heavily stained grains; very coarse grained to granular; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; muscovite.
- 250-260 As above plus few grains of garnet.
- 260-270 Sand- light olive gray; slightly clayey; coarse grained to granular, some medium grains; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite.
- 270-280 Sand and granules- yellowish-gray; very coarse grained, 50% granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 280-290 As above plus few pebbles.
- 290-300 As above plus some medium grains; moderately sorted.
- 300-306 Granules and sand- yellowish-gray; very coarse grained, 60% granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.

Logged by: Michael T. Currie
June 5, 1979