

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B 3667  
C Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Commonwealth of Virginia, Mailing Address: Box 191, Ashland, Va. 23005  
Dept. of Highways west bound lane

TENANT: I-64, St. Proj. #0064-037-101, L802 Mailing Address: \_\_\_\_\_

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: 1305 Brook Road, Richmond, Va.

WELL LOCATION: County Goochland Approx. 1 ~~xxx~~ miles east (direction) of  
St. Route 617 and 150 ~~xxx~~ feet miles north (direction) of Interstate 64

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

DATE STARTED: 11/21/68 DATE COMPLETED: 12/6/68

TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 369 feet

WATER LEVEL: Stands 28 1/2 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method pumped  
Drawdown 113 1/2 feet  
Rate 89 gal. per min.  
Duration 16 hrs., 0 min.

HOLE SIZE: 11 inches from 0 to 70 1/2 feet  
6 inches from 70 1/2 to 369 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 74 to \_\_\_\_\_ feet  
141  
from 154 to \_\_\_\_\_ feet  
from 219 to \_\_\_\_\_ feet

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color clear Taste \_\_\_\_\_  
Odor none Temp. \_\_\_\_\_ °F

CASE SIZE: 6 inches from +2 to 70 1/2 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other rest area \_\_\_\_\_  
(state lab)

GROUTING: Method pressure  
cement and  
Material water Depth 70 1/2 feet

WATER ANALYSIS AVAILABLE: Yes x No \_\_\_\_\_

PUMP: Type submersible  
Capacity \_\_\_\_\_ gal. per min  
Depth of intake \_\_\_\_\_ feet

DRILL CUTTINGS SAVED: Yes 37 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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc. DATE: 12/6/68

| DEPTH<br>(feet) |     | TYPE OF ROCK OR SOIL PENETRATED<br>( gravel, clay, etc., hardness, color, etc.) | REMARKS<br>(water, caving, shot, screen, sample, etc.) |
|-----------------|-----|---|--|
| FROM            | TO  |   |  |
| 0               | 10  | Red clay  |  |
| 10              | 57  | Rotten brown slate  |  |
| 57              | 65  | Soft brown slate  |  |
| 65              | 140 | Gray granite  | water entering at:                                     |
| 140             | 142 | White rock  | 74'  |
| 142             | 153 | Gray granite  | 141'   |
| 153             | 154 | Broken granite  | 154'   |
| 154             | 219 | Gray granite  | 219'   |
| 219             | 220 | Soft gray granite   |  |
| 220             | 369 | Gray granite  |  |

VIRGINIA DIVISION OF MINERAL RESOURCES  
INTERVAL SHEET

C- 63

Well Repository No: W-2416

Date rec'd: 1/22/69

Sample Interval: from 0 to: 340'

PROP: Virginia Department of Highways  
(Interstate 64, WBL)

Number of samples: 33

COMP: Sydnor Hydrodynamics, Inc.

Total Depth: 369'

COUNTY: Goochland (Oilville)

Oil or Gas: Water: XExploratory:

| From-To   | From-To   | From-To | From-To |
|-----------|-----------|---------|---------|
| 0 - 10    | 300 - 310 | -       | -       |
| 10 - 20   | 310 - 320 | -       | -       |
| 20 - 30   | 320 - 330 | -       | -       |
| 30 - 40   | 330 - 340 | -       | -       |
| 40 - 50   | -         | -       | -       |
| 50 - 60   | -         | -       | -       |
| 60 - 70   | -         | -       | -       |
| 70 - 80   | -         | -       | -       |
| 80 - 90   | -         | -       | -       |
| 90 - 100  | -         | -       | -       |
| 100 - 110 | -         | -       | -       |
| 110 - 120 | -         | -       | -       |
| 120 - 130 | -         | -       | -       |
| 130 - 140 | -         | -       | -       |
| -         | -         | -       | -       |
| 150 - 160 | -         | -       | -       |
| 160 - 170 | -         | -       | -       |
| 170 - 180 | -         | -       | -       |
| 180 - 190 | -         | -       | -       |
| 190 - 200 | -         | -       | -       |
| 200 - 210 | -         | -       | -       |
| 210 - 220 | -         | -       | -       |
| 220 - 230 | -         | -       | -       |
| 230 - 240 | -         | -       | -       |
| 240 - 250 | -         | -       | -       |
| 250 - 260 | -         | -       | -       |
| 260 - 270 | -         | -       | -       |
| 270 - 280 | -         | -       | -       |
| 280 - 290 | -         | -       | -       |
| 290 - 300 | -         | -       | -       |

All intervals have both washed and unwashed samples.

OWNER: Virginia Department of Highways  
(Interstate 64 Proj. , WBL)  
DRILLER: Sydnor Hydrodynamics, Inc.  
COUNTY: Goochland (Oilville)

W-2416  
C- 63  
TOTAL DEPTH - 369'

GEOLOGIC LOG

Depth  
in feet

|         |   |
|---------|---|
| 0-10    | Saprolite — red brown; weathered and very iron-oxide stained, fine to medium grained fragments of quartz, feldspar, clay and mica |
| 10-20   | " tan, very little iron-oxide staining; trace of clay   |
| 20-30   | Weathered granite — brown, iron-oxide stained, fine to coarse grained, micaceous; quartz, feldspar, mica, and trace of garnet     |
| 30-40   | "   |
| 40-50   | "   |
| 50-60   | "   |
| 60-70   | " only slightly weathered granite   |
| 70-80   | Biotite granite — gray, medium grained, non-foliated to slightly foliated; feldspar, quartz, biotite, and trace of hornblende     |
| 80-90   | "   |
| 90-100  | "   |
| 100-110 | "   |
| 110-120 | "   |
| 120-130 | "   |
| 130-140 | " increase in amount of hornblende, less biotite  |
| 140-150 | No sample   |

OWNER: Virginia Dept. of Highways  
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|         |   |
|---------|---|
| 150-160 | Hornblende granite — dark gray, coarse grained, non-foliated; feldspar, quartz, hornblende, and trace of biotite              |
| 160-170 | Biotite granite — gray, medium grained, non-foliated to slightly foliated; feldspar, quartz, biotite, and trace of hornblende |
| 170-180 | "   |
| 180-190 | " slightly pinkish; coarse grained  |
| 190-200 | " "   |
| 200-210 | " "   |
| 210-220 | " "   |
| 220-230 | " "   |
| 230-240 | " "   |
| 240-250 | " "   |
| 250-260 | " "   |
| 260-270 | " light gray; trace of biotite  |
| 270-280 | "   |
| 280-290 | "   |
| 290-300 | "   |
| 300-310 | "   |
| 310-320 | "   |
| 320-330 | "   |
| 330-340 | "   |
| 340-369 | No samples  |

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W-2416

GEOLOGIC SUMMARY

|          | <u>Rock Unit</u>  | <u>Age</u>      |
|----------|-------------------|-----------------|
| 0-20'    | Saprolite         | —               |
| 20-70'   | Weathered granite | —               |
| 70-340'  | Granite           | Precambrian (?) |
| 340-369' | No samples        | —               |

Virginia Division of Mineral Resources  
Robert G. Willson, Geologist  
January 23, 1969