

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-2415
C- 64

MAILING ADDRESS:
B 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: Commonwealth of Va. Dept. of Highways Mailing Address: P. O. Box 191, Ashland, Va. 23005
Rt. 64 St. Proj. #0064-037-101, L802

TENANT: Contr. #1 East-bound Lane Mailing Address:

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

WELL LOCATION: County Goochland Approx. 1.8 ~~xxx~~ miles east (direction) of
St. Route 617 and 150 ~~xxx~~ feet south (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: 12/6/68 DATE COMPLETED: 12/23/68

TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 370 feet

WATER LEVEL: Stands 20 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pumped
Drawdown 144 1/3 feet
Rate 62 gal. per min.
Duration 16 hrs., 0 min.

HOLE SIZE: 11 inches from 0 to 50 feet
6 inches from 50 to 370 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 84 to _____ feet
from 90 to _____ feet
from 114 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 50 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 50 feet

WATER ANALYSIS AVAILABLE: Yes No _____

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

DRILL CUTTINGS SAVED: Yes 36 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: 12/23/68

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	10	Red clay	
10	34	Rotten granite	
34	81	Gray granite	
81	84	Soft gray granite	Water - 1/2 gpm
84	89	Hard gray granite	
89	90	White rock	Water - 6 gpm
90	114	Seamy granite	Water - 30 gpm
114	265	Gray granite - black mica	
265	370	Hard gray granite	

VIRGINIA DIVISION OF MINERAL RESOURCES
INTERVAL SHEET

C- 64

Well Repository No: W-2415

Sample Interval: from 0 to: 370'

Number of samples: 37

Total Depth: 370'

Oil or Gas: Water: X Exploratory:

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Date rec'd: 1/22/69

PROP: Virginia Dept. of Highways
(Interstate 64, EBL)

COMP: Sydnor Hydrodynamics, Inc.

COUNTY: Goochland (Oilville)

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	340 - 350	-	-
50 - 60	350 - 360	-	-
60 - 70	360 - 370	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
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., EBL)
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Goochland (Oilville)

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TOTAL DEPTH 370'

GEOLOGIC LOG

Depth
in feet

0-10	Saprolite — red brown; weathered and iron-oxide stained, fine to medium grained quartz, clay and mica
10-20	" tan-brown, less weathered and iron-oxide stained; with vein quartz and weathered feldspar
20-30	" "
30-40	Weathered granite — tan, weathered and iron-oxide stained; medium to coarse grained, micaceous; quartz, feldspar and mica
40-50	" tan-gray; only slightly weathered
50-60	Biotite granite — gray, fine to coarse grained, slightly foliated, micaceous; feldspar, quartz and biotite
60-70	"
70-80	"
80-90	" a few very coarse-grained to porphyritic fragments of feldspar, quartz and biotite; more micaceous
90-100	Biotite gneiss — dark gray to black, medium to coarse grained, foliated, very micaceous, schistose; feldspar, biotite, quartz, and trace of chlorite
100-110	"
110-120	Biotite granite — light gray to very slightly pinkish gray, coarse grained, slightly foliated to non-foliated, slightly micaceous; feldspar, quartz and biotite
120-130	" gray; increase in amount of biotite
130-140	"
140-150	"

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150-160	Biotite granite — light gray to very slightly pinkish gray, coarse grained, slightly foliated to non-foliated, slightly micaceous; feldspar, quartz and biotite
160-170	"
170-180	" gray; medium grained; increase in amount of biotite
180-190	" "
190-200	" "
200-210	" dark gray; considerable increase in biotite, trace of hornblende
210-220	Biotite granite — gray, medium to coarse grained, slightly foliated, micaceous; feldspar, quartz, biotite, and trace of amphiboles
220-230	"
230-240	"
240-250	" light gray; decrease in amount of biotite
250-260	" dark gray; increase in amount of biotite
260-270	"
270-280	"
280-290	" light gray; decrease in amount of biotite
290-300	" "
300-310	"
310-320	"
320-330	" light gray; minor amount of biotite
330-340	" "
340-350	" "

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350-360 Biotite granite — light gray, medium to coarse grained,
 slightly foliated, micaceous; feldspar, quartz,
 biotite, and trace of amphiboles

360-370 "

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-30'	Saprolite	—
30-50'	Weathered granite	—
50-370'	Granite	Precambrian (?)

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