

OWNER: Craig County School Board
DRILLER: Frank W. Martin Drilling Co., Inc.
COUNTY: Craig (New Castle)

VDMR: 2200
WWCR: 11
TOTAL DEPTH: 243'

GEOLOGIC LOG

<u>Depth in feet</u>	
0-10	Sand, quartzite, and shale — weathered
10-20	" with goethite nodules
20-30	Shale and argillaceous sandstone — yellow, weathered shale; light-brown, coarse-grained, well-rounded quartz sand and sandstone
30-40	Sand — light-brown, well-rounded sand and sandstone; minor amount of goethite cement
40-60	"
60-70	Sand — light-brown, coarse-grained, well-rounded, well-sorted; minor amount of sandstone with argillaceous matrix
70-80	Quartzite — yellowish-brown, coarse-grained, well-sorted; argillaceous matrix; trace of conglomerate
80-85	" with minor amount of chert
85-102	Siltstone — dark-brown; minor amount of brown and dark-gray argillite and trace of sandstone; fragments of gray, fossiliferous chert and minor amount of black limestone
102-120	" with silicified brachiopod, crinoid, bryozoan and coral (favosites) fragments, and minor amount of black chert
120-130	Sandstone -- yellowish-brown, fine-grained; argillaceous matrix; a few lithic fragments; minor amounts of siltstone and chert
130-140	" with some light- and dark-gray chert, sandy calcarènite, and a few silicified brachiopod and crinoid fragments

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#2200

- 140-150 Sandstone — dark-gray, fine-grained; calcareous cement; minor amounts of light-brown siltstone and chert
- 150-160 " with fragments of arenaceous limestone
- 160-172 Sandstone — light-brown, well-rounded; calcareous cement; minor amount of chert; trace of fossil fragments
- 172-174 "
- 174-180 "
- 180-185 "
- 185-195 Siltstone — dark-gray; calcareous cement
- 195-212 Sandstone — dark-gray and brown, very friable; traces of calcite and chert; minor amount of light-gray limestone
- 212-220 Siltstone — dark-gray, calcareous, sandy; minor amount of calcite, and trace of pyrite
- 220-243 "

GEOLOGIC SUMMARY

ROCK UNIT

AGE

Oriskany and Helderburg formations Devonian

Note: As construction problems were encountered during drilling, the samples are probably contaminated by unconsolidated rock material that continuously collapsed from the sidewalls of the drill hole. Helderburg limestones crop out on strike with the rock section penetrated by the drill hole, and it is probable that the construction problems and resultant sample-contamination is due to penetration of a collapsed solution cavity filled with debris from the Oriskany Formation.

Virginia Division of Mineral Resources
 William W. Winters, Geologist
 June 19, 1968

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

VDMR: 2200
WWCR: 11

MAILING ADDRESS:

B 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Craig County School Board Mailing Address: New Castle, Virginia

TENANT: Elementary School Mailing Address: "

DRILLER: Frank W. Martin Drilling Co., Inc. Mailing Address: 5163 Starkey Rd., SW
Roanoke, Virginia

WELL LOCATION: County Craig Approx. 1 ~~xxxxx~~ miles east (direction) of
New Castle and 200 ~~xxxxx~~ feet east (direction) of St. Route 42

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

DATE STARTED: March 20, 1968 DATE COMPLETED: May 11, 1968

TYPE OF DRILL RIG USED: Cable TOTAL DEPTH 243 feet

WATER LEVEL: Stands 7 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pump
Drawdown 4 feet
Rate 62 gal. per min.
Duration 48 hrs., 0 min.

HOLE SIZE: 16 inches from 0 to 121 feet
10 inches from 121 to 168 feet
6 inches from 168 to 243 feet
SCREEN SIZE: _____ inches from _____ to _____ feet

WATER ZONES: from 169 to 243 feet
from _____ to _____ feet
from _____ to _____ feet

CASE SIZE: 16 inches from 0 to 66 1/6 feet
10 inches from 0 to 121 1/2 feet
6 inches from 0 to 169 1/6 feet

WATER: Color Clear Taste Good
Odor _____ Temp. _____ °F

GROUTING: Method Poured
Material Cement Depth 169 feet

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

PUMP: Type Submersible
Capacity 62 gal. per min
Depth of intake 171 feet

WATER ANALYSIS AVAILABLE: Yes X No _____
DRILL CUTTINGS SAVED: Yes X 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: Frank W Martin Drilling Co., Inc DATE: May 21, 1968

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	35	Sand - Shaley clay	
35	40	Gravel	
40	90	Sandstone	Seam sand at 55'
90	102	Blue black slate	
102	110	Soft shale	
110	121	Black slate	
121	130	Broken shale	
130	131	Mud seam	
131	168	Limestone - hard streaks	
168	172	Granite	
172	174	Limestone	
174	180	Granite	
180	200	Limestone	
200	207	Granite	
207	243	Limestone	