

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

VDMR - 2172
WWCR - 476

MAILING ADDRESS:

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DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Mount Pleasant Water Corporation Mailing Address: RFD 8 - Box 635, Roanoke, Va.

TENANT: Garden Park Subdivision Mailing Address: _____

DRILLER: Frank W. Martin Drilling Co., Inc. Mailing Address: Roanoke, Va.

WELL LOCATION: County Roanoke Approx. _____ feet miles _____ (direction) of
Bandy Rd. - 350 East Garden City
Blvd. Roanoke, Va. SW and _____ feet miles _____ (direction) of _____

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

DATE STARTED: February 8, 1968 DATE COMPLETED: February 14, 1968

TYPE OF DRILL RIG USED: Air Rotary TOTAL DEPTH 325 feet

WATER LEVEL: Stands 140 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Air

Drawdown _____ feet

Rate 150 gal. per min.

Duration 4 hrs., 0 min.

WATER ZONES: from 230 to 240 feet

from 280 to 290 feet

from _____ to _____ feet

WATER: Color Clear Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

WATER ANALYSIS AVAILABLE: Yes _____ No X

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: _____

HOLE SIZE: 10 inches from 0 to 65 feet

6 inches from 65 to 325 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from 0 to 65 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method Poured

Material cement Depth 65 feet

PUMP: Type Submersible

Capacity 100 gal. per min

Depth of intake _____ feet

INTERVAL SHEET

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VDMR Well No: 2172

Date rec'd: 4/30/68

Sample Interval: from 0 to: 325'

PROP: Mount Pleasant Water Corp.
(Garden Park Sub.)

Number of samples: 32

COMP: Frank W. Martin Drilling Co.

Total Depth: 325'

COUNTY: Roanoke (Garden City)

Oil or Gas: Water: XExploratory:

From-To	From-To	From-To	From-To
0 - 10	300 - 310	-	-
10 - 20	310 - 325	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
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: Mount Pleasant Water Corp. (Garden Park Sub.) VDMR: 2172
 DRILLER: Frank W. Martin Drilling Co., Inc. WWCR: 476
 COUNTY: Raonoke (Garden City) TOTAL DEPTH: 325'

GEOLOGIC LOG

Depth in
feet

0-10	Saprolite — brown, weathered and iron-oxide stained; adamellite, quartz, feldspar, chlorite and clay
10-20	"
20-30	"
30-40	" less weathered

MARSHALL FORMATION (40-200')

40-50	Adamellite — gray, medium- to fine-grained, crystalline, sheared (X-ray analysis: orthoclase and plagioclase feldspars, quartz, chlorite, and mica, with traces of pyrite, graphite, calcite veins, and an unidentified dark-colored mineral)
50-60	"
60-70	"
70-80	"
80-90	"
90-100	"
100-110	"
110-120	"
120-130	"
130-140	"
140-150	"
150-160	"
160-170	"
170-180	"
190-200	"

OWNER: Mount Pleasant Water Corp. (Garden Park Sub.)

#2172

Rome
ROME OR SHADY FORMATION (200-325')

200-210	Dolomite - argillaceous, and limestone — mottled gray and light-tan, very fine-grained, sheared; minor amount of vein quartz
210-220	"
220-230	" with interbedded, reddish-purple shale
<u>Shady</u> 230-240	Dolostone — tan, massive-crystalline; vein dolomite; minor amounts of vein quartz and calcite
240-250	Dolostone — mottled gray and tan; massive-crystalline; traces of vein quartz and argillaceous limestone; veins of dolomite
250-260	"
260-270	" tannish-gray; increase in amount of vein dolomite, decreased amounts of vein quartz and calcite
270-280	" "
280-290	Dolostone — gray, massive-crystalline (X-ray analysis; 97% dolomite, 2% quartz, white vein dolomite common)
290-300	"
300-310	" more crystalline
310-325	" with fragments of tan, fine-grained, argillaceous limestone

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-40'	Saprolite	
40-200'	Marshall Formation	Precambrian
200-325'	Rome or Shady Formation	Early Cambrian

Virginia Division of Mineral Resources
Robert G. Willson, Geologist
May 2, 1968