

OWNER: Town of Glasgow
DRILLER: Sydnor Pump & Well Co., Inc.
COUNTY: Rockbridge (Glasgow)

VDMR #965
WWCR #56
TOTAL DEPTH: 700'

GEOLOGIC LOG

- 0-100 No sample.
- Rome Formation (100-700')
- 100-150 Shale — purple and green, fine-grained, clay, dolomite, calcite, quartz, feldspar, and chlorite; minor white limestone, quartz, and calcite veins.
- 150-187 Dolomite — very-light-gray and purplish, fine-grained; almost white dolomite with calcite, both contain minor pyrite.
- 187-210 As above — lighter color and less calcite.
- 210-220 Dolomite — medium dark-gray, medium-fine-grained, crystalline, white calcite veins and minor pyrite.
- 220-240 As above — porous and light-gray crystalline calcareous dolomite with thin green, chlorite, laminations.
- 240-252 Dolomitic Limestone — light-gray, pale-pink and pale-green; the light-gray is silty, the pink is porous and the green chloritic; minor pyrite in all types; vugs with calcite and dolomite crystals.
- 252-260 As above.
- 260-270 Shale — dark green-gray, dense, fine-grained, clay, chlorite and quartz; minor calcite veins, minor pyrite.
- 270-300 Dolomite Breccia — light-gray, fine-grained, dolomite fragments with white dolomite cement; minor pyrite.
- 300-320 Dolomite, Limestone, and Siltstone — light-gray, fine-grained, dolomite; white, medium-grained, limestone; pale-green, calcareous, chloritic, siltstone.
- 320-340 Dolomite — light-gray and white, fine-grained, porous with calcite partially filling the openings, minor silty lamina; minor pyrite.
- 340-360 Dolomite Breccia — medium-gray dolomite fragments, dolomite cement, pyrite.

OWNER: Town of Glasgow

#965

- 360-380 Shaly Dolomite — green-gray, fine-grained, brecciated (slightly), dolomite with chlorite, calcite veins, pyrite.
- 380-400 Dolomite — light-gray to purplish, fine-grained, approximately 5% pyrite, cavities lined with scalenohedral calcite crystals.
- 400-420 As above.
- 420-440 Dolomite — purple, fine-grained, iron oxides stains; minor green shale; vein calcite, greater than 5% pyrite.
- 440-447 Dolomite — mixture of green-gray shaly dolomite and purple dolomite, vein calcite crystals, pyrite, minor hydrous iron oxides.
- 447-460 Dolomite — light-gray, fine-grained, dense, minor cavities, dolomite crystals, minor pyrite.
- 460-480 As above — vein calcite, few purple dolomite fragments.
- 480-500 Dolomite — dark-gray, fine-grained, hair like calcite veins; minor green dolomite.
- 500-520 As above — minor green limestone.
- 520-552 As above.
- 552-568 Dolomite — dark-gray, fine-grained, crystalline vein calcite, minor iron staining.
- 568-580 Dolomite — dark-gray, fine-grained, approximately 15% green shale and 15% buff calcareous siltstone.
- 580-592 As above — less shale and siltstone.
- 592-607 Dolomite — 1/3 light-brown, fine-grained calcareous; 1/3 purple, fine-grained; 1/3 light-gray and white, fine-grained, minor pyrite.
- 607-617 No sample.
- 617-630 Dolomite — light-gray, purple and medium-gray; light-gray contains calcite veins; medium-gray is porous; minor pyrite throughout.
- 630-644 Dolomite — light-gray, fine-grained, minor calcite veins, very minor pyrite; several fragments of purple dolomite.

OWNER: Town of Glasgow

#965

- 644-660 Dolomite — dark gray, crystalline, calcite veins; minor white siltstone, minor pyrite.
- 660-680 As above — no siltstone.
- 680-700 As above — slightly more pyrite and calcite.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-100	No sample	
100-700	Rome Formation	Cambrian

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
December 3, 1964