

OWNER: John Horsley (Ashby Heights #3)
DRILLER: C. R. Moore
COUNTY: Rockingham (Harrisonburg)

VDMR # 870
WWCR # 455
TOTAL DEPTH : 781'

GEOLOGIC LOG

0-48	No sample
48-50	Dolomite - light to dark gray, hard, no apparent fossil content, no apparent bedding, very fine-crystalline with; abundant calcite, and common iron oxide staining.
50-60	Dolomite - shaly, light to dark gray, hard, no apparent fossil content, platy, micro-crystalline with; common calcite veinlets, and common iron oxide staining.
60-70	Dolomite - dark gray, hard, no apparent bedding, very fine-crystalline with; rare calcite, and rare iron oxide staining.
70-80	As above
80-90	As above - with common argillaceous streaks.
90-100	As above
100-110	Dolomite - dark gray, light brown, hard, no apparent bedding to platy, cryptocrystalline to microcrystalline with; common pyrite, abundant calcite veins, and rare iron oxide staining.
110-120	As above - with a few pieces containing rounded nodules of calcite.
120-130	Dolomite - dark gray, hard, no apparent bedding, very fine-crystalline with; abundant calcite veins and nodules, and rare iron oxide staining.
130-140	As above
140-150	As above
150-160	Interbedded dolomite - light to dark gray, hard no apparent bedding, very fine-crystalline with; common calcite veins, and rare iron oxide staining. Siltstone - dolomitic, tan and maroon, moderately hard, tough, no apparent bedding, siliceous and dolomitic, rare muscovite with; abundant iron oxide stains.

- 160-170 As above
- 170-180 Dolomite - slightly calcareous, light to dark gray, hard, no apparent bedding, very fine-crystalline with; rare calcite, and common iron oxide staining, and X-ray diffraction (calcite 15%, quartz 5%, dolomite 75%, potash feldspar 5%).
- 180-190 As above - with common calcite veins and fragments showing excellent cleavage.
- 190-200 Interbedded Dolomite - as above with; Dolomite, light brown, hard, no apparent bedding, cryptocrystalline with; abundant iron oxide staining.
- 200-210 Dolomite - slightly calcareous, light to dark gray, hard, no apparent bedding, very fine-crystalline with; common calcite veins, and common iron oxide staining.
- 210-220 Dolomite - as above, with abundant calcite veins and abundant fragments of calcite showing excellent cleavage.
- 220-230 As above
- 230-240 As above
- 240-250 As above
- 250-260 Interbedded Dolomite - as above, with; Dolomite, calcareous, light brown, moderately hard, no apparent bedding, cryptocrystalline with; abundant iron oxide staining.
- 260-270 As above
- 270-280 As above
- 280-290 As above
- 290-300 As above
- 300-310 As above
- 310-320 As above
- 320-330 Dolomite - slightly calcareous, light to dark gray, hard, no apparent bedding, microcrystalline to very fine-crystalline with; abundant calcite veins, and rare iron oxide staining.

- 490-500 Dolomite - dark gray, hard, no apparent bedding, very fine-crystalline with; common calcite veins, and rare iron oxide staining, and stringers of; Dolomite, as above.
- 500-510 Interbedded Lithologies - as above, with; chert, yellow-brown.
- 510-520 As above
- 520-530 Dolomite - "sugary", light gray, hard, no apparent bedding, cryptocrystalline with; rare calcite fragments, and abundant iron oxide staining.
- 530-540 As above
- 540-550 As above
- 550-560 Dolomite - light to dark gray, moderately hard, no apparent bedding, cryptocrystalline to microcrystalline with; common calcite fragments, and abundant iron oxide staining.
- 560-570 Dolomite - as above, with stringers of yellow-brown chert.
- 570-580 As above
- 580-590 As above
- 590-600 Dolomite - light to dark gray, hard, no apparent bedding, very fine-crystalline with; abundant calcite veinlets, and rare iron oxide staining.
- 600-610 As above
- 610-620 As above
- 620-630 As above
- 630-640 Dolomite - light gray, hard, no apparent bedding, cryptocrystalline to microcrystalline with; abundant chert, and common carbonaceous material and abundant iron oxide staining.
- 640-650 Dolomite - light to dark gray, moderately hard, no apparent bedding, very fine-crystalline with; common chert, abundant calcite, rare carbonaceous material and rare iron oxide staining, and sample finely ground.

OWNER: John Horsley (Ashby Heights #3) - continued

#870

330-340	As above
340-350	As above
350-360	As above
360-370	As above
370-372	No samples
372-375	Lithology as in 320-330
375-380	Dolomite - light gray to light brown, moderately hard, no apparent bedding, cryptocrystalline with; common calcite veins, and abundant iron oxide staining.
380-390	Interbedded Dolomite - as above, with; chert, yellow-brown.
390-400	As above
400-410	Dolomite - light to dark gray, moderately hard, no apparent bedding, microcrystalline to very fine-crystalline with; abundant calcite nodules and veins and common iron oxide staining.
410-420	As above
420-430	Interbedded Dolomite - as above, with; chert, yellow-brown.
430-440	Dolomite - light to dark gray, light to dark brown, moderately hard, no apparent bedding, microcrystalline with; common chert fragments, abundant calcite and abundant iron oxide staining.
440-450	As above
450-460	As above
460-470	As above
470-480	As above
480-490	Dolomite - "sugary", light gray, hard, no apparent bedding, cryptocrystalline with; abundant iron oxide staining.

650-660	As above
660-670	As above
670-680	As above
680-690	As above
690-700	As above
700-710	As above
710-720	As above
720-730	As above
730-740	As above
740-750	As above
750-760	Interbedded Dolomite - light to dark gray, hard, no apparent bedding, very fine-crystalline with; common chert, abundant calcite, and rare iron oxide staining. Dolomite - "sugary", light brown, hard, no apparent bedding, cryptocrystalline with; rare chert, and abundant iron oxide staining.
760-770	Dolomite - light to dark gray, moderately hard, no apparent bedding, microcrystalline with; common calcite veins, and abundant iron oxide staining.
770-780	As above

GEOLOGIC SUMMARY

<u>AGE</u>	<u>ROCK UNIT</u>
Ordovician	Beekmantown formation

Virginia Division of Mineral Resources
 John M. Wilson - Geologist
 September 5, 1963