INTERVAL SHEET

WWCR 37 Page 1 VDMR Well No.: 1350 Date8/19/65 Sample Interval: from 0 to 280 Total depth 280 PROP: M. W. Williams Oil___Gas__Water_X Exploratory____ COMP: C. R. Moore Cuttings X Core Other COUNTY: Madison VDMR Well No: W-1350 From-To From-To From-To From-To From-To WASHED SAMPLES 0 _ 10 10 _ 20 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

OWNER: M. W. Williams DRILLER: C. R. Moore

COUNTY: Madison (Madison Mills)

VDMR Well No: 1350 WWCR Well No: 37 Total Depth: 280

GEOLOGIC LOG

Metamorphosed extrusives (0-280)

0-10	Greenstone - light-gray-green, very-fine grained; amphibole, chlorite, epidote, mica, iron oxides.
10-20	As above - with veins of calcite; trace pyrite.
20-30	As above - with euhedral vein calcite, in open veins.
30-40	As above
40-50	Greenstone - light-gray-green, very-fine grained; amphibole chlorite, epidote, plagioclase, minor pyroxene; trace calcite and pyrite; thin section examination shows relict flow breccia structure.
50-60	As above - with veins of calcite, minor specular hematite.
60-70	Metamorphosed Porphyritic Basalt - dark-red-gray, 2mm grain size to aphanitic; andesine, chlorite, amphibole, epidote, glass and iron oxides.
70-80	As above - slightly purple; minor veins of calcite.
80-90	Greenstone - light-greenish-gray with minor purple hematite stain, very-fine-grained; chlorite, amphibole, and epidote; numerous fractures recemented with calcite, trace pyrite.
90-100	As above - more purple stain
100-110	As above - less purple stain
110-120	Metamorphosed Flow Breccia - medium-greenish-gray and medium-purplish-gray; very-fine-grained; angular fragments of greenstone with dark-red-gray cement of metamorphosed basalt; minor calcite and dolomite, trace pyrite.
120-130	Greenstone - medium-red-gray to medium-green-gray, very-fine-grained, stringers of dark chlorite.
130-140	As above - more-red-gray; trace serpentine on fractures.
140-150	As above - less red-gray
150-160	As above

OWNER: M. W. Williams

#1350

160-170	Greenstone - medium-gray-green, very-fine-grained, stringers and fracture fillings of dark chlorite; occasional fragments of vein calcite.
170-180	Greenstone - light-pinkish-green-gray; very-fine-grained, numerous fractures; amygdules and fracture fillings of dark-green chlorite and iron oxides.
180-190	Metamorphosed Basalt - medium gray-green to dark-red- gray; very-fine-grained; many fractures recemented with iron oxides, feldspar and calcite.
190-200	Metamorphosed Scoria - medium-pink-gray, green-gray and orange-gray, very-fine grained mottled uneven texture, most vesicles filled with chalcedony or zeolites.
200-210	Greenstone - medium-light-greenish gray, very-fine-grained, minor veins of calcite.
210-220	As above - vein calcite is pale pink, brecciation is evident.
220-230	As above - no veins.
230-240	As above - with minor dark-reddish-gray basalt.
240-250	As above
250-260	Metamorphosed Basalt - medium-dark-red-gray, very-fine-grained, needles of amphibole in a cryptofelsitic matrix of feldspar, epidote, sphene and chlorite.
260-270	As above
270-280	Metamorphosed Basalt - dark-red-gray, aphanitic, microlites of plagioclase in a dark, glassy matrix, numerous fractures recemented by iron oxides, cherty material or calcite.

GEOLOGIC SUMMARY

ROCK UNIT

TIME ROCK UNIT

0-280 Metamorphosed extrusives

Triassic

Some of the greenstones may be metamorphosed fragmental volcanics; others may be flows or intrusives. The deep-red color is indicative of basalt, but the origin of the lighter-green greenstones is unknown.

VIRGINIA DIVISION OF MINERAL RESOURCES Hollis N. Walker - Geologist August 31, 1965