

INTERVAL SHEET

WWCR 959

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VDMR Well No.: Well No. 1334

Date 7/20/65

Sample Interval: from 10 to 240

PROP: James E. Lewis

Total depth 240

COMP: C. R. Moore

Oil Gas Water Exploratory

COUNTY: Albemarle (Free Union)

Cuttings Core Other

VDMR Well No: W-1334

Washed samples

From-To	From-To	From-To	From-To	From-To
-	-	0 - 10	No sample	-
-	-	10 - 13		-
-	-	13 - 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		-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

OWNER: James E. Lewis
DRILLER: C. R. Moore
COUNTY: Albemarle (Free Union)

VDMR #1334
WWCR #959
TOTAL DEPTH: 240'

GEOLOGIC LOG

0-10 No sample.

Lovingston Formation (10-160')

- 10-13 Augen Gneiss — black, white, and pale-brown, very-coarse-to fine-grained; perthite, microcline, quartz, biotite; minor epidote, albite, garnet, pyrrhotite, pyrite, muscovite, trace calcite, minor iron-stain; two different but poorly developed schistositys intersect and surround the augen; the feldspar augen occasionally contain rounded, frosted sand grains; mylonitized areas are apparently both post and are augen.
- 13-20 As above.
- 20-30 As above — less iron-oxide stain.
- 30-40 As above.
- 40-50 Sheared Gneiss — medium-green-gray to medium-dark-gray; as augen gneiss that has been deformed an augen smeared out; medium-coarse- to very-fine-grained; perthite, microcline, albite, oligoclase, quartz, biotite, chlorite; minor pyrite, garnet and hornblende; porous in part.
- 50-60 Augen Gneiss — cream to dark-gray; coarse- to medium-grained; alkali feldspar, quartz, biotite, plagioclase, garnet, epidote, chlorite; slightly foliated ground mass with augen of feldspar, quartz, and garnet. The largest augen (15 mm) are alkali-feldspar and are often pale pink; all the augen appear to be authigenic and are transected by relict foliation; small rounded grains of quartz are included in some augen.
- 60-70 As above — fewer large augen, slightly more garnet, minor pyrite.
- 70-80 As above — more epidote.
- 80-90 As above — more biotite, less feldspar.
- 90-100 Sheared Gneiss — pale-gray-green, dark-gray, salmon-gray, and cream; medium-grained biotite gneiss with minor large augen of alkali feldspar that have been sheared, deformed and recrystallized; epidote and zoisite, biotite, chlorite, feldspar, quartz, and minor garnet.

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- 100-110 Sheared Gneiss — pale-gray-green, dark-gray, salmon-gray, and cream; medium-grained biotite gneiss with minor large augen of alkali-feldspar that have been sheared, and recrystallized; biotite, epidote, and zoisite, chlorite, feldspar, quartz, and minor garnet.
- 110-120 Augen Gneiss — medium-greenish-gray; fine-grained; biotite, chlorite, quartz, feldspar; schistose rock with large augen (up to 20 mm) of alkali-feldspar, probably anorthoclase.
- 120-130 As above.
- 130-140 As above — some of the feldspar altered to epidote and zoisite.
- 140-150 As above — more feldspar augen.
- 150-160 As above — minor garnet augen.

Leucocratic-Amphibolite Dike (160-180')

- 160-170 Actinolite Amphibolite — medium-light-gray-green, fine-grained, slight-lineation; tremolite, epidote; muscovite, quartz, biotite, sphene and feldspar; vein albite with siderite and trace fluorite.
- 170-180 Quartz Semischist — medium-dark-greenish-gray, fine- to coarse-grained; epidote, quartz, biotite, feldspar, pyrite, and garnet; minor actinolite and sphene.

Lovingston Formation (180-240')

- 180-190 Mica Schist — very-pale-green to dark-gray, medium-grained, contorted foliation; biotite, muscovite, quartz, feldspar, epidote; siderite in veins and irregular fillings; minor slickensides coated with epidote.
- 190-200 Gneiss — medium- to dark-green-gray, medium- to coarse-grained; layers of mica schist with contorted foliation; biotite, muscovite, quartz, feldspar, epidote, and siderite interbedded with layers of quartzitic alkali-feldspar bearing rock; minor slickensides.
- 200-210 Biotite Schist — very-dark-gray to green-gray; minor pyrite; veins of quartz and alkali-feldspar.
- 210-220 Sheared Augen Gneiss — medium-gray-green, medium- to coarse-grained; potash feldspar, quartz, albite, biotite, epidote, garnet and pyrite.

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- 220-230 Sheared Augen Gneiss — medium-gray-green, medium- to coarse-grained; potash feldspar, quartz, albite, epidote, garnet and pyrite; abundant schistose layers of biotite.
- 230-240 As above — with only minor biotite schist and more feldspar.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-10	No sample	
10-160	Lovingston Formation	Precambrian
160-180	Leucocratic-Amphibolite Dike	?
180-240	Lovingston Formation	Precambrian

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
August 16, 1965