INTERVAL SHEET

Pagel			VDMR W	Vell	No: Well No.	WWCR 69
Date <u>12/20/65</u>			Sample	a Int	erval: from	54_to_260
PROP: Va. Dept	. of Highways		Total	Dept	h260	11 or 16 or
(State Res COMP: C. R. M	sident Shop, Lot oore	#42)	0i1	_Gas_	Water <u>X</u> Exp	loratory
COUNTY: Louis:	a (Louisa)		Cuttir	ngs	X_Core	Other
VDMR Well No:	W-1441		Wash	ed s	amples	
From-To	From-To	F	rom-To		From-To	From-To
-	-	C) - 54	: No	samples -	-
-	-	54	- 70)	-	-
1	-	70	- 80)	-	-
_	-	80) _ 90)	_	-
_	-	90	0 100)	-	_
_	_	100	_ 110)	_	_
-	-	110	_ 120)	_	-
-	-	120	- 130)	-	-
-	-	130	- 140)	-	-
-	-	140	- 150)	-	-
-	-	150	_ 160)	-	-
-	-	160	- 170)	-	-
-	-	17(- 180)	-	-
-	-	180	- 190)	-	
-	-	190	200)	1	-
		200	n 210	1		
-	-	210	-220))	-	-
-	-	220	0 = 220)	-	
-	-	230	-240)	-	
-	-	24	0 - 250	5	-	-
-	-	25	0 _ 260	С	-	· ·
-	-		-		-	-
-	-		-		-	-
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-	-		5		-	-
-	-		-		-	

WWCR 69

OWNER: Virginia Department of Highways (State Resident Shop, Lot #42)

DRILLER: C. R. Moore COUNTY: Louisa (Louisa)

GEOLOGIC LOG

0-54 No samples.

- 54-70 Quartz Schist very pale-brown, fine-grained with minor coarse-grained; fissile, good lineation; quartz, muscovite, minor feldspar and biotite.
- 70-80 As above less brown color, slightly coarser grained.
- Quartz Gneiss very light to dark-gray, average grain-size
 0.25 mm; finely banded; quartz, muscovite, biotite, minor
 feldspar; augen and veins of quartz.
- 90-100 Quartz Biotite Schist medium to dark-gray, lusterous, finegrained, well-foliated; quartz, biotite, sericite; minor pyrite and feldspar, veins and laminae of coarse quartz; trace magnetite.
- 100-110 Quartz Gneiss medium-gray, fine-grained, good lineation; quartz, sericite, biotite; minor pyrrhotite; trace magnetite.
- 110-120 As above less pyrrhotite, trace pyrite.
- 120-130 As above more massive.
- 130-140 Quartz Gneiss medium-gray, fine-grained; massive; quartz, sericite, biotite; minor pyrite; minor dark-gray, schistose, biotite-rich laminae.
- 140-150 Quartz-Sericite Schist very pale-green-gray, fine-grained; good foliation and lineation; minor biotite and pyrite.
- 150-160 As above slightly more biotite.
- 160-170 Quartz Schist medium light-gray, fine to coarse-grain; quartz, sericite, biotite, minor garnet, pyrite and pyrrhotite.
- 170-180 As above very minor dark-amphibole schist: good lineation and foliation; amphibole, calcite, biotite, quartz, and chlorite.
- 180-190 Amphibole Schist medium dark-greenish-gray, average grain size 0.2 mm x 1.0 mm; good lineation and foliation; amphibole, calcite, biotite, quartz, and chlorite.

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- 190-200 Amphibole Schist and Quartz Schist amphibole schist: as above with more quartz and biotite and longer needles of amphibole; quartz schist: very light-gray, fine grained; quartz, sericite, minor biotite and pyrrhotite.
- 200-210 As above more biotite, less amphibole.
- 210-220 Quartz Gneiss light-gray, fine-grained, banded; minor small rounded augen of quartz; quartz, sericite, biotite; minor pyrite and pyrrhotite.
- 220-230 As above with minor medium grayish-green, fine-grained amphibole schist, with amphibole, quartz, biotite, and muscovite.
- 230-240 As above more amphibole schist, trace vein calcite.
- 240-250 Quartz Schist medium light-gray, fine-grained, poorly foliated; quartz, sericite, minor biotite and pyrite; biotiterich partings; minor vein quartz.
- 250-260 Amphibole Schist medium dark-green-gray, fine-grained; foliated, poor lineation; amphibole, quartz; minor biotite and chlorite; minor quartz schist as above.

GEOLOGIC SUMMARY

These samples are mostly metamorphosed sedimentary rocks of uncertain age. The amphibole-rich phases may be metamorphosed tuffs, lavas, or intrusives, or may have been hydrothermally formed.

> Virginia Division of Mineral Resources Hollis N. Walker, Geologist December 21, 1965