INTERVAL SHEET

WWCR 855 VDMR Well No.: Well No. 814 1 Page_ 4/22/63 Sample Interval: from 40 200 Date to Dr. G. L. Johnson Total depth 200 PROP: Oil___Gas___Water_X_Exploratory_____ COMP: C. R. Moore COUNTY: Albemarle Cuttings X Core Other VDMR Well No: W-814 Washed samples From-To From-To From-To From-To From-To Complete set of 40 sampled intervals. 50 60 70 80 90 95 100 105 110 115 115 - 120 125 - 130 120 125 130 130 135 140 145 150 155 160 170 175 180 190 200

OWNER: Dr. G. L. Johnson (Brinnington Farm)

DRILLER: C. R. Moore (Gibson)
COUNTY: Albemarle (Free Union)

VDMR #814 WWCR#855 TOTAL DEPTH: 200'

GEOLOGIC LOG

40	Overburden — light-brown, fine-grained; quartz, feldspar, biotite, sericite, clay, chlorite, and iron oxides.	
50	As above — medium-brown, less clay, blue quartz noted.	
60	Biotite Gneiss — light-bluish-gray, fine-grained, lineation of biotite, no real foliation could be observed in the cuttings, much of the quartz is blue due to minute inclusion. X-ray examination showed that 2/3 of rock is quartz; chlorite, biotite, muscovite, and plagioclase are present in about equal amounts. Optical methods showed the plagioclase to be andesine, and showed that garnet, ilmenite, and minor calcite are present. (Top of bedrock in this interval).	
70	As above - biotite more abundant and more general oxidation.	
80	Biotite Gneiss — blue-gray; light minerals segragated from dark minerals; blue quartz abundant in fragments rich in biotit quartz, sericite, biotite, feldspar; minor garnet, zircon, and pyrite.	
90	Metamorphosed Arkose — white with black spots, white quartz, blue quartz, potash feldspar, sericite, biotite.	
95	Metamorphosed Arkose — As above with increase in X-ray examination showed 40% each of quartz and potash feldspar, the remainder being biotite and muscovite.	
100	As above.	
105	As above — more biotite, more oxides, more blue quartz, minor garnet and pyrite.	
110	Gneiss — dark-gray, foliated, fine-grained; biotite, quartz (much blue), and muscovite, (X-ray examination; 50% biotite, 25% quartz, remainder muscovite and plagioclase).	
115	As above.	
115-120	As above — more quartz.	
125	Gneiss — medium-gray; fine-grained dark material, and equal amounts of coarse-grained light material; dark Gneiss and	

metamorphosed arkose.

OWNER: Dr.	. G. L. Johnson (Brinnington Farm)	#814
120-130	Gneiss — dark-gray, foliated; biotite, quartz, mu and plagioclase.	scovite,
125-130	Gneiss - medium-gray; equal amounts of dark gne metamorphosed arkose.	eiss and
130	Metamorphosed Sandstone — blue-white, medium-quartz (some blue), sericite, potash feldspar, mir	
135	Gneiss — dark-gray and white - a mixture of dark metamorphosed sandstone.	gneiss and
140	Gneiss — medium-dark-gray; dark minerals are flighter minerals are medium-grained. (X-ray exa 30% biotite, 25% quartz, 25% muscovite, and 20%)	amination:
145	As above.	
150	As above — medium-gray, increase in light mater	rial.
155	Metamorphosed Sandstone — light-gray, medium- no foliation; quartz (some blue), feldspar, muscov in minor amounts well disseminated, trace of pyri	ite, biotite
160	As above — with minor amounts of dark gneiss.	
170	As above.	
175	Metamorphosed Arkose — light-gray, medium- to no foliation, some blue quartz. (X-ray examination equal parts, plagioclase, potash feldspar, and quarts amounts of biotite.	on showed
180	Gneiss — medium-gray, segregated, fine-grained gneiss and light-gray metamorphosed arkose; quarfeldspar, plagioclase, sericite, biotite, minor ilm pyrite.	tz, potash
190	As above — more biotite and pyrite.	
200	As above — less segregation.	
GEOLOGIC SUMMARY		
	FORMATION AGE	

Mechum River

Virginia Division of Mineral Resources Hollis N. Walker, Geologist October 5, 1964

Precambrian