INTERVAL SHEET

Pa	ige_	1		WWCR 14 VDMR Well No.: Well No. 1297
Date		4	/14/65	Sample Interval: from 0 to 234
				Trailer Park) Total depth 234
	MP:		ydnor Pump &	
			hesterfield (
			11 No: W-129	
Fr	om-	-To	From-1	To From-To From-To From-To
0	-	10	-	· · · ·
10	-	20		
20	-	40	-	
40	-	50	-	
50	-		No sample -	
10		0.0		
60	-	80		
80	-	90	-	
87	-	97	-	
90	-	100	_	
100		110		
110	-	120	-	
120	-	130	-	
127	-	140	-	
140	-	150	-	
150	-	159	-	
159	-	161	No sample -	
			-	
175	-	185	-	
185	-	200	-	
200	-	215	-	
215		234		
	-			
	_		_	
	-		-	
	-		-	
	-		-	
	-		-	
			-	
	-		-	

.

OWNER: A. W. Flippo (Flippo Trailer Park) DRILLER: Sydnor Pump & Well Co., Inc. COUNTY: Chesterfield (Richmond) VDMR #1297 WWCR #148 TOTAL DEPTH: 234'

GEOLOGIC LOG

Columbia Group (0-40')

- 0-10 Clay orange-brown; very sandy; sand very-fine- to mediumgrained, moderately sorted, subangular to subrounded; quartz and small amounts of white, weathered chert, and magnetite; traces of alkaline feldspar (microperthite observed), and muscovite; much of pigment appears to be hematitic.
- 10-20 As above.
- 20-40 Sand orange-brown; medium- to very-coarse-grained, moderately sorted, subangular to subrounded; quartz, including some smoky and hyacinth grains, with subordinate (5-10%) dull white, somewhat abraded cleavage fragments of alkaline feldspar; small amounts magnetite, muscovite, and nodular hematite; trace of tourmaline.

Potomac Group (40-161')

- 40-50 Sand gray; very argillaceous (gray clay); coarse-grained, poorly sorted with variable roundness; some feldspar and magnetite; trace of pyrite.
- 50-60 No sample.
- 60-80 Sand gray; trace of clay; abundant subangular to rounded quartz gravel (2-8 mm); coarse- to very-coarse-grained (skewed coarse), moderately sorted, subrounded; quartz, with subordinate (about 5%) gray and white feldspar; and fresh, medium- to coarsegrained glauconite; traces of garnet, muscovite, nodular pyrite, and black, nodular to platey phosphorite.
- 80-90 As above but less glauconitic.
- 87-97 Sand and Gravel gray and yellow-brown; gravel (2-8 mm in diameter) consists of subangular to rounded quartz, and a subordinate amount of subrounded to rounded, dull-white to yellowish, highly decomposed microcline and microperthite (35-40% of sample, by volume); sand medium- to very-coarsegrained, moderately sorted, subangular to rounded; iron-stained quartz and hyacinth quartz are common; feldspar common and varies from gray and relatively fresh to white or yellow and highly decomposed microcline and microperthite; small amount fresh glauconite, finer grained than major components; brown chert, traces of muscovite and red and pink garnet.

OWNER: A. W. Flippo (Flippo Trailer Park)

- 90-100 Sand gray; slightly argillaceous (coatings on sand grains); coarse- to very-coarse-grained, moderately sorted, subangular to subrounded; quartz, with small amount feldspar; minor garnet, and trace of pyrite.
- 100-110 Sand and Gravel gray; slightly argillaceous; gravel (2-10 mm in diameter), consists of subrounded quartz, much of it yellow stained, and a few pebbles of feldspar and brown chert (45-50% of sample by volume); sand very-fine- to very-coarsegrained, poorly sorted, angular to subrounded; quartz, and small amounts of feldspar, brown chert, muscovite, glauconite, phosphorite, magnetite, pyrite, and garnet; trace of chloritized biotite.
- 110-120 As above.
- 120-130 As above.
- 127-140 As above but with a much lower gravel content consisting of scattered pebbles (10-15 mm) of quartz and a few of brown chert.
- 140-150 Sand gray; very-coarse-grained, moderately sorted, subangular to subrounded; quartz (90%), feldspar (10%); small amounts garnet and muscovite.
- 150-159 Clay and Sand grayish-green clay containing abundant verycoarse-grained sand and granules of subrounded quartz and gray potassium feldspar; small amounts of garnet, muscovite, pyrite, and woody-textured carbonaceous fragments infilled with pyrite.

159-161 No sample.

Petersburg Granite (161-234')

- 161-175 Saprolite bluish-green; derived from fine-grained phaneritic rock consisting of feldspar, ferromagnesian silicate, and minor quartz; only recognizable minerals are pyrite and magnetite.
- 175-185 As above.
- 185-200 As above.
- 200-215 As above.
- 215-234 As above.

OWNER: A. W. Flippo (Flippo Trailer Park)

GEOLOGIC SUMMARY

ROCK UNIT

Columbia Group

Potomac Group

TIME ROCK UNIT

Quaternary

Lower Cretaceous

161-234 Petersburg Granite

0-40

40-161

Paleozoic

Virginia Division of Mineral Resources Robert H. Teifke, Geologist May 5, 1965

#1297

OWNER: A. W. Flippo (Flippo Trailer Park) DRILLER: Sydnor Pump & Well Co., Inc. COUNTY: Chesterfield (Richmond) VDMR #1297 WWCR #148 TOTAL DEPTH: 234'

GEOLOGIC LOG

Columbia Group (0-40')

- 0-10 Clay orange-brown; very sandy; sand very-fine- to mediumgrained, moderately sorted, subangular to subrounded; quartz and small amounts of white, weathered chert, and magnetite; traces of alkaline feldspar (microperthite observed), and muscovite; much of pigment appears to be hematitic.
- 10-20 As above.
- 20-40 Sand orange-brown; medium- to very-coarse-grained, moderately sorted, subangular to subrounded: quartz, including some smoky and hyacinth grains, with subordinate (5-10%) dull white, somewhat abraded cleavage fragments of alkaline feldspar; small amounts magnetite, muscovite, and nodular hematite; trace of tourmaline.

Potomac Group (40-161')

- 40-50 Sand gray; very argillaceous (gray clay); coarse-grained, poorly sorted with variable roundness; some feldspar and magnetite; trace of pyrite.
- 50-60 No sample.
- 50-80 Sand gray; trace of clay; abundant subangular to rounded quartz gravel (2-8 mm); coarse- to very-coarse-grained (skewed coarse), moderately sorted, subrounded; quartz, with subordinate (about 5%) gray and white feldspar; and fresh, medium- to coarsegrained glauconite; traces of garnet, muscovite, nodular pyrite, and black, nodular to platey phosphorite.
- 80-90 As above but less glauconitic.
- 87-97 Sand and Gravel -- gray and yellow-brown; gravel (2-8 mm in diameter) consists of subangular to rounded quartz, and a subordinate amount of subrounded to rounded, dull-white to yellowish, highly decomposed microcline and microperthite (35-40% of sample, by volume); sand medium- to very-coarsegrained, moderately sorted, subangular to rounded; iron-stained quartz and hyacinth quartz are common; feldspar common and varies from gray and relatively fresh to white or yellow and highly decomposed microcline and microperthite; small amount fresh glauconite, finer grained than major components; brown chert, traces of muscovite and red and pink garnet.

OWNER: A. W. Flippo (Flippo Trailer Park)

- 90-100 Sand gray; slightly argillaceous (coatings on sand grains); coarse- to very-coarse-grained, moderately sorted, subangular to subrounded; quartz, with small amount feldspar; minor garnet, and trace of pyrite.
- 100-110 Sand and Gravel gray; slightly argillaceous; gravel (2-10 mm in diameter), consists of subrounded quartz, much of it yellow stained, and a few pebbles of feldspar and brown chert (45-50% of sample by volume); sand very-fine- to very-coarsegrained, poorly sorted, angular to subrounded; quartz, and small amounts of feldspar, brown chert, muscovite, glauconite, phosphorite, magnetite, pyrite, and garnet; trace of chloritized biotite.
- 110-120 As above.
- 120-130 As above.
- 127-140 As above but with a much lower gravel content consisting of scattered pebbles (10-15 mm) of quartz and a few of brown chert.
- 140-150 Sand gray; very-coarse-grained, moderately sorted, subangular to subrounded; quartz (90%), feldspar (10%); small amounts garnet and muscovite.
- 150-159 Clay and Sand grayish-green clay containing abundant verycoarse-grained sand and granules of subrounded quartz and gray potassium feldspar; small amounts of garnet, muscovite, pyrite, and woody-textured carbonaceous fragments infilled with pyrite.

159-161 No sample.

Petersburg Granite (161-234')

- 161-175 Saprolite bluish-green; derived from fine-grained phaneritic rock consisting of feldspar, ferromagnesian silicate, and minor quartz; only recognizable minerals are pyrite and magnetite.
- 175-185 As above.
- 185-200 As above.
- 200-215 As above.
- 215-234 As above.

W-12.97

41.40

南

OWNER: A. W. Flippo (Flippo Trailer Park)

GEOLOGIC SUMMARY

ROCK UNIT

0-40 Columbia Group

- - -

- 40-161 Potomac Group
- 161-234 Petersburg Granite

TIME ROCK UNIT

Quaternary

Lower Cretaceous

Paleozoic

Virginia Division of Mineral Resources Robert H. Teifke, Geologist May 5, 1965