INTERVAL SHEET

age	1		VDMR Well No	o.: 757 WWCR # 143	
Date	12-6-62			rval: from 0 to 252½	-
PROP:	River's Edge	Sub.	Total depth252½		
COMP:	Mitchell		OilGas	Water XExplorator	гу
COUNTY:	Y: Prince George (Hopewell)		Cuttings	X Core Other	
				Washed Samples	
From-To	From-	То	From-To	From-To	From-To
=	0- 10-		-	Complete set of sampled intervals	-
_	20-		-	-	_
-	30-		#	=	-
-	40- !	50	-	=	-
=	50-	60	_	_	
-	60-		5 <u>20</u> 70 3	<u> </u>	* =
(-)	70 - 80-		-	=	
	90-			-	_
	,				
	100-		=	=	-
-	110- 120-		- .		: = :
=	130-		, <u>-</u>	-	· I
-	140-	150	-	¥	-
-	150-	160	-	_	:-
-	160-		-	-	-
-	170 - 180-		-	<u>.</u>	=
-	190-		-	-	_
20	200-		-		- v
-	210-		-	=	
-	220 - 230-			-	
-	240-		_	-	
		~			
-	Ψ.		_	_	-
	3 101		=	= "	
			-	-	12
_	_		_		=

OWNER: River's Edge Subdivision
DRILLER: Mitchell's Well and Pump Co.
COUNTY: Prince George (Hopewell)

VDMR # 757 WWCR # 143 TOTAL DEPTH : 252

SAMPLE DESCRIPTION (Washed Samples)

Columbia Group (0-30)

- O-10 Sand light orange, clear and milky quartz, fine to coarse grained, rounded to subangular, argillaceous, trace of white feldspar, slight trace of rounded magnetite grains
- 10-20 As above
- 20-30 Sand and gravel light yellow, clear and milky quartz, fine grained to pebble size, subangular to subrounded, heavy trace of white feldspar, slight trace of rounded magnetite grains

Calvert Formation (30-80)

- 30-40 Sand light gray, clear quartz, fine to medium grained, rounded to subangular, argillaceous, trace of rounded magnetite grains
- 40-50 As above
- 50-60 Sand light gray, clear quartz, fine to medium grained, rounded to subangular, very argillaceous, calcareous, heavy trace of shell fragments and rounded magnetite grains
- 60-70 Sand light gray, clear quartz, fine to medium grained, rounded to subangular, highly argillaceous and calcareous, 10% shell fragments
- 70-80 Sand light gray, clear quartz, fine to medium grained, rounded to subangular, highly argillaceous and calcareous, heavy trace of shell fragments

Nanjemoy Formation (80-140)

- 80-90 Sand dark green, 45% glauconite, 45% clear and milky quartz, fine to coarse grained, rounded to subangular, 8% shell fragments, slightly calcareous, slight trace of pyrite
- 90-100 As above

- 100-110 Sand dark green, 45% glauconite, 45% clear and milky quartz, fine to coarse grained, rounded to subangular, 8% shell fragments, argillaceous, slightly calcareous, slight trace of pyrite
- 110-120 Sand dark brown and green, 50% glauconite, 30% clear and milky quartz, fine to coarse grained, rounded to subangular, 15% clay
- 120-130 Sand light brown, gray and green, 40% quartz, fine to medium grained, rounded to subangular, 30% glauconite, 20% clay, 8% shell fragments, sericitic, trace of pyrite

130-140 As above

Aquia Formation (140-180)

- 140-150 Sand light gray and dark green, 60% glauconite, 30% quartz, fine to medium grained, rounded to subrounded, 5% shell fragments, argillaceous, trace of sericite, slight trace of pyrite
- 150-160 Sand dark green, 45% glauconite, 40% quartz, medium to large grained, subrounded to subangular, 10% shell fragments
- 160-170 As above
- 170-180 Sand dark green, 50% quartz, clear, fine grained to granules, rounded to subangular, 30% glauconite, 15% shell fragments

Patuxent Formation

- 180-190 Sand light gray, 90% clear and milky quartz with some smokey quartz, medium grained to granules, rounded to subrounded, 5% clay, slight trace of dark minerals and iron oxide
- 190-200 As above
- 200-210 As above
- 210-220 Sand light gray, 90% clear and milky quartz with some smokey quartz, medium grained to granules, rounded to subrounded, 5% clay, trace of white feldspar, slight trace of dark minerals and iron oxide
- 220-230 As above

230-240

As above

240-252¹/₂

0-30

30-80

80-140

As above

GEOLOGIC SUMMARY

AGE UNIT

Pleistocene Columbia group
Miocene Calvert formation
Eocene Nanjemoy formation

140-180 Eocene $180-252\frac{1}{2}$ Lower Cretaceous

Virginia Division of Mineral Resources

Aquia formation

Patuxent formation

Merrick S. Whitfield - Geologist November 28, 1962 OWNER: River's Edge Subdivision
DRILLER: Mitchell's Well and Pump Co.
COUNTY: Prince George (Hopewell)

VDMR # 757 WWCR # 143 TOTAL DEPTH : 252

SAMPLE DESCRIPTION (Washed Samples)

Columbia Group (0-30)

0-10 Sand - light orange, clear and milky quartz, fine to coarse clay lenses grained, rounded to subangular, argillaceous, trace of white feldspar, slight trace of rounded magnetite grains

10-20 As above

20-30 Sand and gravel - light yellow, clear and milky quartz, fine grained to pebble size, subangular to subrounded, heavy trace of white feldspar, slight trace of rounded magnetite grains

Calvert Formation (30-80)

30-40 Sand - light gray, Clear quartz, fine to medium grained, rounded to subangular, argillaceous, trace of rounded magnetite grains v. s/. g/suconitic

As above

F-M, moderately sorted;

pale greenish-gray, very clayer; clear quartz and bluish-gray

50-60

Sand - light gray, clear quartz, fine to medium grained,

rounded to subangular; very argillaceous, calcareous (heavy blaish pay

trace of shell fragments and rounded magnetite grains

boolests, graded) bioclasts; with smaller % chalky bioclasts (?) and spine.

60-70 Sand light gray, clear quartz, fine to medium grained, rounded to subangular, highly argillaceous and calcarous, 10% shell fragments finely divided bone ROs common's slightly glauconitic.

60-70 - As above except: with 10 percent coarse shell, mainly blue; bone more abund 70-80 Sand light gray, clear quartz, fine to medium grained,

rounded to subangular, highly argillaceous and calcareous;

heavy trace of shell fragments.

As above (50-60') 50-80': blue bioclasts range sl. coarser than quartz.

Nanjemoy Formation (80-140) 125

√ 80-90 Sand - dark green, 45% glauconite, 45% clear and milky quartz, fine to coarse grained, rounded to subangular, 8% shell fragments, slightly calcareous, slight trace of pyrite

√ 90-100 As above

- 100-110 Sand dark green, 45% glauconite, 45% clear and milky quartz, fine to coarse grained, rounded to subangular, 8% shell fragments, argillaceous, slightly calcareous, slight trace of pyrite
- 110-120 Sand dark brown and green, 50% glauconite, 30% clear and milky quartz, fine to coarse grained, rounded to subangular, 15% clay

TN/TNMC/ -

120-130 Sand - light brown, gray and green, 40% quartz, fine to medium grained, rounded to subangular, 30% glauconite, 20% clay, 8% shell fragments, sericitic, trace of pyrite; pint clay in interval.

130-140 As above Sand - bluish-gray, very clayer, with lenses of black

51. clayer, micaceous; fine - to very fine - (to medium-) grained;
well sorted; quartz-glauco; hybrid sediment; trace of chalky

Aquia Formation (140-180) shells; Robulus common, Nadosaria present.

140-150 Cond. Light group and don't appear (0% aloves it 2000 appears.)

140-150 Sand - light gray and dark green, 60% glauconite, 30% quartz, fine to medium grained, rounded to subrounded, 5% shell fragments, argillaceous, trace of sericite, slight trace of pyrite

150-160 Sand - dark green, 45% glauconite, 40% quartz, medium to large grained, subrounded to subangular, 10% shell fragments

160-170 As above

170-180 Sand - dark green, 50% quartz, clear, fine grained to granules, rounded to subangular, 30% glauconite, 15% shell fragments

Patuxent Formation

/85 180-190 Sand - light gray, 90% clear and milky quartz with some smokey quartz, medium grained to granules, rounded to subrounded, 5% clay, slight trace of dark minerals and iron oxide

190-200 As above

200-210 As above

210-220 Sand - light gray, 90% clear and milky quartz with some smokey quartz, medium grained to granules, rounded to subrounded, 5% clay, trace of white feldspar, slight trace of dark minerals and iron oxide

220-230 As above

230-240

As above

240-252

As above

GEOLOGIC SUMMARY

AGE

UNIT

0-30 30-80 80-140 140-180 180-252

Pleistocene Miocene Eocene Eocene

Lower Cretaceous

Columbia group Calvert formation Nanjemoy formation Aquia formation Patuxent formation

Virginia Division of Mineral Resources Merrick S. Whitfield - Geologist November 28, 1962