INTERVAL SHEET

Page	1	VDMR Well No.:	. 750 WWCR #62	2
Date11-19-62		Sample Interval: from 2 to 320		
PROP:	Brandy Creek Estates	Total depth	320	
COMP:	Mitchell's	OilGas_	Water_XExp	oloratory
COUNTY	(: Hanover (Mechanicsville)	CuttingsX_	CoreOtł	ner
From-T - - - -	From-To 0-2 No sample 2 - 10 10 - 20 20 - 30 30 - 40 40 - 50		From-To - - - -	From-To Complete set of sample intervals - - -
	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 - 170 180 - 190 190 - 200			
	200 - 210 210 - 220 220 - 230 230 - 240 240 - 250			
)	250 - 260 260 - 270 270 - 280 280 - 290 290 - 300	-		

OWNER:	Brandy Creek Estates	VDMR # 750
	(Mitchell Water Supply)	WWCR # 61 62
DRILLER:	Mitchell's Well and Pump Company	TOTAL DEPTH: 320
COUNTY:	Hanover (Mechanicsville)	

SAMPLE DESCRIPTION (Washed samples)

PLEISTOCENE (0'-90')

- 0-2 No samples
- 2-10 Sand light brown, clear to milky quartz, fine grained to granules, angular to rounded, trace of white feldspar.
- 10-20 Sand clean, clear to milky quartz, fine to course grained, angular to subrounded, traces of white feldspar, and iron oxide.
- 20-30 Sand clear to milky quartz, fine grained to granules, subangular to rounded, traces of white feldspar, and of blue quartz.
- 30-40 Sand clear to milky quartz, fine grained to granules, subangular to subrounded, traces of white feldspar, iron staining, and blue quartz.
- 40-50 Sand clear to milky quartz, fine grained to pebbles, angular to subangular, traces of white feldspar, blue quartz and iron staining.
- 50-60 Sand clean, clear to milky quartz, fine to coarse grained, subangular to subrounded,
- 60-70 Sand clean, clear to milky quartz, fine grained to granules, angular to subrounded, trace of blue quartz,
- 70-80 Sand light brown, clear to milky quartz, fine grained to pebbles, subangular to subrounded, traces of iron staining and feldspar.
- 80-90 Sand and gravel clear, milky and rose quartz, fine grained to pebbles, subangular to rounded, trace of iron staining.

OWNER: Brandy Creek Estates (Mitchell Water Supply) (continued)

CALVERT FORMATION (90'-110')

- 90-100 Sand light gray, quartz, very fine to coarse grained, rounded to subrounded.
- 100-110 Sand light gray, quartz, very fine to coarse grained, rounded to subrounded.

NANJEMOY FORMATION (1101-1501)

- 110-120 Sand black and white with some light green, quartz, glauconitic, very fine grained to granules, subangular to well rounded, 60% glauconite.
- 120-130 As above
- 130-140 Sand black and white, quartz, glauconitic, fine to course grained, subangular to subrounded, 2% fossil fragments, trace of pyrite.
- 140-150 Siltstone light gray, glauconitic, fine grained, subangular, argillaceous, slightly micaceous, poorly sorted, poorly consolidated.

AQUIA FORMATION (150'-220')

- 150-160 Sand light gray, quartz, glauconitic, micaceous, course grained, rounded to subangular, poorly sorted.
- 160-170 Sand light gray, quartz, glauconitic, micaceous, fine to coarse grained, rounded to subangular, heavy trace of shell fragments, trace of pyrite.

170-180 As above

180-190 Sand - light gray, argillaceous, slightly micaceous, fine to coarse grained, rounded to subangular, heavy trace of shell fragments, traces of pyrite, iron oxide and microfossils.

190-200 As above

200-210 Sand - light gray, glauconitic, slightly micaceous, fine to coarse grained with granules of black glauconite, subangular, 5% glauconite, heavy trace of shell fragments.

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	ndy Creek Estates (continued) #750 tchell Water Supply)				
210-220	Marl - light gray, slightly calcareous, micaceous and silty, very fine grained with trace of pebble-size quartz, poorly sorted, poorly consolidated, trace of glauconite, slight trace of shell fragments.				
PATUXENT FORMATION (220'-320')					
220-230	Sand - clear, milky and rise quartz, argillaceous, arkosic, silty, fine grained to pebbles, compacted, poorly consolidated, trace of iron staining.				
230-240	As above				
240-250	Sand - clear to milky quartz, arkosic, medium grained to pebbles, rounded to subrounded, compacted.				
250-260	Sand - clear and milky quartz with trace of rose quartz, arkosic, medium grained to pebbles, compacted, subangular to subrounded.				
260-270	Sand - clear and milky quartz with some rose quartz, arkosic, argillaceous, fine grained to granules, subangular to subrounded, compacted.				
270-280	Sand - clear and milky quartz with some rose quartz, arkosic, fine grained to granules, subangular to subrounded, compacted.				
280-290	As above				
290-300	Sand and gravel - clear, milky and rose quartz, arkosic medium grained to gravel, subangular to sub- rounded, compacted.				
300-310	As above				
310-320	Sand - clear to milky quartz, arkosic, medium grained to gravel, subangular to subrounded, compacted.				

(Continued)

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GEOLOGIC SUMMARY

	AGE	FORMATION OR UNIT	
0-90	Pleistocene	Columbia group	
90-110	Miocene	Calvert formation	
110-150	Eocene	Nanjemoy formation	
150-220	Eocene	Aquia formation	
220-320	Lower Cretaceous	Patuxent formation	

Virginia Division of Mineral Resources Merrick S. Whitfield, Geologist December 3, 1962