		INTERVAL SHEET	
Page		VDMR Well No.: 583	
Date 10/25/61		Sample Interval: from <u>3</u> to <u>280</u>	
PROP: Canterbury Hills #2 (Williamsburg) COMP: Mitchell's COUNTY: James City		Total depth	
		OilGasWater_X_Exploratory	/
		Cuttings X Core Other	
		WASHED SAMPLES	
From-To	From-To	From-To From-To	From-To
-	3-14		
-	14-27	85. BU	58 109
	27-54	105 mil	645
-	54-62	- Complete set of sampled interva	ls
-	62-66		( was
-	66-75	529 (90)	
**	75-104		-
	104-138	50 Sta	-
	138-172 172-222	19 C3	-
$\bigcirc$	172 222		-
( <u>-</u> ,	222-272	142 · · · · · · ·	
**	272-280	50 KK	
-	-	-	-
-		547 549 549	
- <sup>-</sup> · · · · ·		65 NA	8
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10	83		-
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0-	_	EA EA	
		64 KS	DRI UNG
-	-	60 60 F	53

(112

OWNER: Canterbury Hills #2 DRILLER: Mitchell's COUNTY: James City (Williamsburg)

W#: 583 C#: 112 TOTAL DEPTH: 280'

## GEOLOGIC LOG

Depth (feet)

BACONS CASTLE FORMATION (0-54)

- 0-3 No Sample.
- 3-14 Sand dark orange; abundant clay; very fine to fine grained; subangular to subrounded; well sorted; quartz; feldspar; opaques inc.ilmenite; few weathered shell fragments; few grains of glauconite.
- 14-27 Sand cream; abundant clay; fine w/some medium grains; subangular to subrounded; moderately well sorted; quartz; feldspar; opaques inc. ilmenite; few weathered glauconite grains.
- 27-54 Sand light brown; abundant clay; some gray clay bleebs; fine w/some medium grains; subangular to subrounded; moderately well sorted; quartz; feldspar; 3% weathered glauconite; opaques inc. ilmenite; some muscovite.

YORKTOWN FORMATION (54-104)

- 54-62 Sand and clay light gray; abundant clay; fine w/some medium and coarse grains; subangular; moderately well sorted; quartz; some feldspar; 3% weathered glauconite; opaques inc. ilmenite; some muscovite.
- 62-66 Sand light gray; moderate clay; fine sand to pebbles; subrounded to rounded; poorly sorted; quartz; feldspar; few grains of glauconite.
- 66-75 Sand and pebbles orangish brown; heavily iron stained; slightly clayey; medium sand to pebbles; subangular to rounded; poorly sorted; quartz; feldspar; fragments of ferricrete.
- 75-104 Sand and coquina gray; moderately clayey; fine w/some medium sand to pebbles; subangular to rounded; moderately sorted; 40% shell and coquina fragments; quartz; some opaques; some black phosphatic material; forams (inc. Buccella); spines.

CALVERT FORMATION (104-272)

104-138 Sand - greenish gray; moderate clay; fine grained; subangular; well sorted; quartz; 3% shell fragments; some opaques; some black phosphatic material; trace of glauconite; muscovite; abundant diatoms; spines; ostracode. Depth (feet)

- 138-172 As above except light gray; abundant clay; 2% glauconite; some shell fragments; forams (inc. Buccella).
- 172-222 Clay light gray; 15% shell fragments; 5% gypsum crystal and needles; some phosphatic material.
- 222-272 Clay and sand dark browinsh gray; 30% medium to coarse sand; subangular to rounded; 20% shell fragments; some black phosphatic material; gypsum crystals; abundant forams (inc. <u>Bolivina</u>, Nonion, Uvigerina and Robulus.

NANJEMOY FORMATION (272-280+)

272-280 Sand and limestone - gray; clean; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 30% limestone fragments; 15% shell fragments; some black phosphatic material; few grains of glauconite; pyrite; forams rare (inc. Loxostomum (sp)). ostracode.

Note: Sp - sample taken.

## GEOLOGIC SUMMARY

Thickness (feet) Rock Unit Time Rock Unit 54 Bacons Castle Formation Pleistocene 50 Yorktown Formation Pliocene-Miocene 168+ Calvert Formation Miocene-Eocene 8+ Nanjemoy Formation Eocene

> Virginia Division of Mineral Resources David A. Hubbard, Jr., Geologist June 7, 1978