

INTERVAL SHEET

Page 1 Date 10/25/61 PROP: Canterbury Hills #2 (Williamsburg) COMP: Mitchell's		VDMR Well No.: 583 Sample Interval: from 3 to 280 Total depth 250 [†] Oil Gas Water X Exploratory						
					COUNTY: James C	City	Cuttings X Core Other	
							WASHED SAMPLES	
					From-To	From-To	From-To From-To	From-
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-	104-138	w0 644	-					
	138-172	est. C3	***					
-	172-222	102						
-	222-272	NO 100	THE PARTY					
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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.
- 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. Bolivina, 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