INTERVAL SHEET

Page	1	VDMR Well No.: 586	
Date	10/27/61	Sample Interval: from 0 to 364	
PROP:	Petersburg State Colony #1	Total depth 395/2	
COMP:	Sydnor	OilGasWater_X_Exploratory	
COUNTY:	Charles City	Cuttings X Core Other	
		WASHED SAMPLES	
From-To	From-To	From-To From-To	From-To
-	0-14 14-18 18-20 20-35 35-45	- Complete set of sample intervals.	600 600 600 600
-	45 - 55	ear up	
-	55 - 70	-	***
_	70- <u>100</u> 100- <u>140</u>	en con	-
	155-160		***
-	160-190	MR. JARO	
was.	190 <u>-209</u> 209 - 213	504 555	
	211-213	507 set	
544	213-233		609
·	233-250	par set	200
***	261-267	-	-
	280 - 283 283 - 285		***
-	360-364	N3 Sel	***
-		-	143
_	Ξ.	-	***
um	-	MA DATE	tot
_	· · · · · · · · · · · · · · · · · · ·	_	100
_	- w	90	decis Sector
	_	0.W 5.C2	see .
-		68 50	test
	-	55 m	444

OWNER:

Petersburg State Colony # 2

DRILLER: COUNTY:

Sydnor

Charles City

W#: 586 C#: 108

TOTAL DEPTH: 364'

GEOLOGIC LOG

Depth (feet)

MOORINGS "UNIT" (0-35)

- 0 14Clay-dark yellowish orange; moderate sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques.
- 14-18 Clay-white; abundant sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 20% opaques; some muscovite.
- 18-20 As above
- 20-35 Sand and clay - dark orange; heavily stained; moderate clay; abundant sand; coarse grained to granular, 10% pebbles; subrounded; moderately sorted; quartz; feldspar.

YORKTOWN FORMATION (35'-55')

- 35 45Sand-olive light gray; abundant clay; coarse grained with some medium grains; subrounded; well sorted; quartz; some feldspar; few black phosphatic fragments.
- 45-55 Sand-olive light gray; abundant clay; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% shell fragments; black phosphatic material; few spines.

CALVERT FORMATION (55' - 100')

- Clay-light olive gray; moderate sand; very fine grained; subangular 55-70 to subrounded; well sorted; quartz; spines; few shell fragments; forams (inc. Buccella).
- 70-100 Clay-light olive gray; sandy; coarse to very coarse grained with some medium grains, some granules; subrounded to rounded; poorly sorted; quartz; 77% glauconite; 3% shell fragments; forams (inc. Robulus and Buccella); ostracodes.

Depth (feet)

NANJEMOY FORMATION (100'-190')

- 100-140 Clay-light olive gray; moderate sand; fine to coarse grained, some granules; subangular to rounded; poorly sorted; quartz (some green); 35% glauconite; 10% shell fragments; forams (inc. Robulus, Dentalina, Discorbis, and Bolvina); garnet; estrocodes; black phospahtic bone fragment.
- 140-155 No sample.
- 155-160 Clay-grayish orange, red; sandy; medium to coarse grained, few granules; subrounded; moderately sorted; quartz; 10% glauconite; forams (inc. Robulus); ostracode.
- 160-190 Clay-light olive gray; abundant sand; fine grained; subangular; well sorted; quartz; 3% glauconite; shell fragments inc. gastropods; few spines; forams scarce (inc. Globulina).

MATTAPONI FORMATION (190'-213')

- 190-209 Clay-olive gray; abundant sand; fine to medium grained with some coarse grains; few granules; few pebbles; subangular to rounded; poorly sorted; 50% glauconite; 25% quartz; 25% shell fragments; 3% gypsum crystals and aggregates; forams (inc. <u>Buccella</u>); ostracodes; sandy limestone fragments; bone fragment.
- 209-213 Gravel-greenish gray; sandy; coarse grained to gravel; subrounded to rounded; moderately sorted; quartz; glauconite 50% of sand-sized fraction; feldspar; sandy limestone fragments; garnet.
- 211-213 Gravel-white; 30% granules; subangular to subrounded; moderately well sorted; quartz; feldspar; 10% sandy limestone fragments.

PATUXENT FORMATION (213'-364')

- 213-233 Clay-dark yellowish orange, red, yellow; moderate sand; very fine grained to fine grained with some medium grains, some granules, 15% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 2% muscovite.
- 233-250 Sand-white; slightly clayey-yellow, red; coarse to very coarse grained with some medium grains, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few black phosphatic fragments.
- 250-261 No sample.

Depth (feet)

261-267 Sand-white; very slightly clayey; coarse grained to granular, few pebbles; subrounded; moderately well sorted; quartz; feldspar; sandy limestone fragment.

267-280 No sample.

280-283 Sand-white; very slightly clayey; granular with some very coarse grains, some pebbles; subrounded; moderately well sorted; quartz-various colors; feldspar.

283-285 Sand-white; slightly clayey; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet.

285-360 No sample

360-364 Sand and gravel-white; very slightly clayey; very coarse grained to gravel; subrounded; moderately sorted; quartz; feldspar.

Logged by: Michael T. Currie

Thickne			
(feet) GEOLOG		GIC SUMMARY	
	ROCK UNIT	TIME ROCK UNIT	
35	Moorings "Unit"	Pleistocene	
20	Yorktown Formation	Pliocene - Miocene	
45	Calvert Formation	Miocene - Eocene	
90	Nanjemoy Formation	Eocene	
23	Mattaponi Formation	Eocene-Cretaceous	
151*	Patuxent Formation	Cretaceous	

VIRGINIA DIVISION OF MINERAL RESOURCES David A. Hubbard, Jr., Geologist July 26, 1978