W - 2943

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road

7	VELL CO	The latest the second			ormick Road lottesville, V	
(water, coving, shal, screen, sample, etc.)		, hordness color	P. O. Box 6	664	nia	FROM
TENANT: Rappahannock Beach		Mailing Address:				
DRILLER: Douglas & Dickinson, Inc.		Mailing Address	Warsaw, V	irginia		
						on) o
	and	6				
(GIVE DIRECTION AND DISTANCE IN FEET OR COUNTY HIGHWAY OR OTHER MAP.)						
DATE STARTED:		DATE COMPL	ETED: Sept	. 2, 1969		
TYPE OF DRILL RIG USED: Rota	ry		TOTAL D	EPTH_	460	feet
WATER LEVEL: Stands 25 f	eet below	surface <u>OR</u>				
has NATURAI	_ flow of	gallon	s per minut	e.		
YIELD TEST: Method	1	HOLE SIZE	E: 6inches	from 0	_to _168	feet
Drawdown75fe	et		5 7/8 inches	from ¹⁶⁸	_to 460	feet
Rate 50 gal. per m			inches	from	_to	feet
Duration hrs., m	in.	SCREEN SIZ	E: 2inches	from 420	_to <u>435</u>	feet
WATER ZONES: from 420 to 4	435feet		inches	from	_to	feet
fromto			inches	from	to	feet
fromto	feet	CASE SIZE	: <u>4</u> inches	from_0	_to_168	feet
WATER: ColorTaste	-		2inches	from 168	_to_420	feet
OdorTemp	°F		2inches	from435	_to_460	feet
WELL TO SUPPLY: (check one) Home		GROUTING	: MethodTr	emmie		
Farm Town School_			riol Neat		100	_ feet
IndustryOther_subdivis	sion	PUMP:	TypeSubn	nersible		
WATER ANALYSIS AVAILABLE:Yes	N o		Capacity4	0	gal. pe	r min
DRILL CUTTINGS SAVED: Yes 44 (DRILL CUTTINGS SHOULD BE COLLECTED OFFICE EXPRESS COLLECT. SAMPLE BAGS	AT 10 FOOT IN ARE FURNISHE	TERVALS. THES D FREE OF CH		AY BE SHI		feet

VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

	INTERV	AL SHEET		
Page l	of 1	Well Repo	C-120 sitory No: W-294	3
Date rec'd: 3/2	4/70 ; processed 10/9/	70 Sample In	terval; from 0	to: 460'
PROPERTY: J. C. Haden		Number o	f samples: 44	
COMPANY:	(Rappahannock Beach) Douglas & Dickinson, Inc	Total Dep	th: 460'	
COUNTY:	Essex (Tappahannock)	Oil or Gas	s: Water:x Explor	ratory:
/ From-To	From-To	From-To	From-To	
0 _ 10 10 _ 21 21 _ 31 31 _ 42 42 _ 52	262 _ 273 273 _ 283 283 _ 294 294 _ 304 304 _ 315	- - - -	- - -	1
52 _ 63 63 _ 73 73 _ 84 84 _ 94 94 _ 105	315 _ 325 325 _ 336 336 _ 346 346 _ 357 357 _ 367	- - - -	-	
105 - 115 115 - 126 126 - 136	367 _ 378 378 _ 388 388 _ 399	- - -	-	
136 - 147	399 - 409	<u>=</u>	-	

409 - 420

420 - 430

430 - 441 441 - 451

451 - 460

147 - 157

157 - 168 168 - 178

178 - 189 189 - 199

199 - 210

(Rappahannock Beach)

OWNER : J. C. Haden

DRILLER: Douglas and Dickinson

COUNTY: Essex

W# : 2943 C# : 120

TOTAL DEPTH: 460'

QUAD : Mount Landing

GEOLOGIC LOG

Depth (feet)

- 0-10 Sand- olive light gray; slightly clayey; slightly silty; fine to medium grained, some coarse grains, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; 3% glauconite; some limestone and shell fragments; few black phosphatic fragments.
- As above except moderate clay; fine to medium grained, few granules; moderately well sorted; few shell fragments; no limestone.
- 21-31 Sand- light olive gray; moderate silt; fine grained; subangular to subrounded; well sorted; quartz; few grains of glauconite; few black phosphatic fragments; muscovite.
- 31-42 As above.
- Sand- yellowish-gray; slightly clayey; abundant silt; fine grained; subangular to subrounded; well sorted; quartz; few black phosphatic fragments; forams (inc. <u>Bulimina</u>, <u>Uvigerina</u>, and Nonion); few diatoms.
- 52-63 Sand- yellowish-gray; moderate clay; moderate silt; very fine grained; subangular; well sorted; quartz; few black phosphatic fragments; forams (inc. Uvigerina); few diatoms.
- 63-73 As above except light olive gray; forams rare (inc. Nonion).
- 73-84 As above except forams (inc. <u>Nonion</u>, <u>Bulimina</u>, and <u>Textularia</u>); few echinoid spines.
- 84-94 As above except no Bulimina; few bone fragments.
- 94-105 As above except forams (inc. Nonion).
- 105-115 Sand- olive light gray; slightly clayey; moderate silt; medium to coarse grained, some fine grains; subangular to subrounded; moderately sorted; quartz; some black phosphatic material; some shell fragments; few flakes of muscovite; forams scarce (inc. Bulimina and Nonion).
- 115-126 As above plus few echinoid spines; bone fragment.

OWNER: J. C. Haden

Depth (feet)

- 126-136 Sand- light olive gray; slightly silty; fine to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; 25% sandy limestone and shell fragments; 3% glauconite; few black phosphatic fragments; few echinoid spines; forams rare (inc. Robulus).
- 136-147 As above except 5% glauconite; forams (inc. <u>Buccella</u>, <u>Robulus</u>, and Guttulina).
- 147-157 Sand- light olive gray; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 40% glauconite; 7% sandy limestone and shell fragments; forams common (inc. Buccella, Robulus, and Cibicides); few echinoid spines.
- 157-168 Sand- light olive gray; medium to coarse grained, some fine grains, 2% granules; subangular to rounded; moderately sorted; quartz; 15% glauconite; 10% sandy limestone and shell fragments; forams common (inc. <u>Buccella</u>, <u>Guttulina</u>, and <u>Siphogenerina</u>); few black phosphatic fragments; few echinoid spines; muscovite.
- 168-178 Sand- olive gray; medium grained, some coarse grains; rounded; well sorted; 80% glauconite; quartz; 3% shell fragments; few flakes of muscovite.
- 178-189 Sand- light olive gray; medium to coarse grained; subrounded to rounded; moderately well sorted; 50% glauconite; quartz; 10% rotten limestone and shell fragments; few flakes of muscovite; forams rare (inc. Robulus).
- 189-199 Sand- light olive gray; medium to coarse grained, some granules; subrounded to rounded; moderately well sorted; quartz; 30% glauconite; 7% rotten limestone and shell fragments; few black phosphatic fragments; ostracode.
- 199-210 As above except 15% rotten limestone and shell fragments.
- 210-220 Sand- olive light gray; slightly clayey; medium grained, some coarse grains; subrounded to rounded; well sorted; 75% glauconite; quartz; few shell fragments; muscovite.
- 220-231 Clay and sand- olive light gray; abundant clay; moderate sand; medium to coarse grained; subrounded to rounded; moderately well sorted; 60% glauconite; quartz; some muscovite; few shell fragments; forams rare (inc. Robulus).
- 231-241 As above plus some fine grains; moderately sorted; forams scarce (inc. Robulus and Buccella?).

Depth (feet)

- 241-252 As above except 70% glauconite; no Buccella?.
- 252-262 Clay- light olive gray, olive light gray, grayish-orange-pink; abundant sand, fine to medium grained; subangular to rounded; moderately well sorted; glauconite 60% of sand fraction; quartz; few flakes of muscovite; few shell fragments.
- 262-273 Clay- grayish-orange-pink; yellowish-gray; moderate sand; fine to medium grained; subangular to rounded; moderately well sorted; glauconite 60% of sand fraction; quartz; few flakes of muscovite.
- 273-283 Sand- olive light gray; slightly clayey; medium to coarse grained; subrounded to rounded; moderately well sorted; 70% glauconite; quartz; some limestone and shell fragments; few flakes of muscovite; foram.
- 283-294 As above except abundant clay (olive light gray, grayish-orange-pink); no forams.
- 294-304 As above except moderate clay; some stained grains; 60% glauconite.
- 304-315 As above.
- 315-325 Sand- olive light gray; abundant clay- olive light gray, grayish-orange-pink; medium to coarse grained; subrounded to rounded; moderately well sorted; 50% glauconite; quartz; some shell fragments; few flakes of muscovite; forams scarce (inc. Nodosaria).
- 325-336 As above.
- 336-346 Clay- olive light gray; some stained grains; abundant sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 35% glauconite; few shell fragments; forams (inc. Buccella, Robulus, and Cibicides?).
- 346-357 As above except 60% glauconite; forams common (inc. $\underline{\text{Buccella}}$ and Nodosaria).
- 357-367 Sand- olive light gray; abundant clay- olive light gray, yellow-ish-gray; medium grained, some coarse grains; subrounded to rounded; well sorted; 65% glauconite; quartz; few shell fragments; forams (inc. Buccella); ostracode.

Depth (feet)

367-378 Clay- pale yellowish-brown, olive light gray; abundant sand; medium to coarse grained; subrounded to rounded; moderately well sorted; 60% glauconite; quartz; few shell fragments; muscovite; forams (inc. Buccella and Nodosaria).

378-388 As above except moderate sand; forams rare (inc. Nodosaria).

388-399 As above except 35% glauconite.

399-409 Sand- off-white; medium to coarse grained; subangular to subrounded; well sorted; quartz; feldspar; 3% muscovite; few flakes of muscovite.

409-420 As above.

420-430 As above.

430-441 As above except slightly silty.

441-451 As above.

451-460 Sand- off-white; moderate clay (clasts)- grayish-orange-pink; slightly silty; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 5% glauconite; few flakes of muscovite.

Logged by: Michael T. Currie August 2, 1979 OWNER: J. C. Haden (Rappahannock Beach)

VDMR # 2943 WWCR # 120

DRILLER: Douglas & Dickinson COUNTY: Essex (Tappahannock)

TOTAL DEPTH: 460'

GEOLOGIC SUMMARY

DEPTH (feet)	ROCK UNIT	AGE
0-143	Calvert Formation	Middle Miocene
143-273	Nanjemoy Formation	Middle Eocene
273-399	Mattaponi Formation	Paleocene-Late Cretaceous
399-460	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources Robert H. Teifke - Geologist November 6, 1970