COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

B 3667

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS: McCormick Road

C. Hottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Tidewater Construction Corporation	Mailing Address:	CT L	FROM
TENANT:	_ Mailing Address	-96	-0
DRILLER: R. L. Magette Company	Mailing Address Smithfield, Va.	Ob	05
WELL LOCATION: County Surry	Approxfeet	(directi	on) of
Hog Island VEP Station and and	miles (direction) of	100	08
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM COUNTY HIGHWAY OR OTHER MAP.)	TWO REFERENCE POINTS - ROADS, TOWNS, R	IVERS, ETC	
DATE STARTED: 3-30-70	DATE COMPLETED: 4-4-70	140	120
TYPE OF DRILL RIG USED: Hydraulic Rotary	TOTAL DEPTH_	415	1.40 fee1_
WATER LEVEL: Stands 67 feet below	surface <u>OR</u>	200	
has <u>NATURAL</u> flow of_	gallons per minute.	220	
YIELD TEST: MethodPump	HOLE SIZE: 10 rinches from 0	to50	feet
Drawdown3feet	Fine bla-e sand w/some grave 50 morth senon be beavy (no same)	to415	feet
	The on west to heavy (no sair.	200	feet
Duration 48 hrs., 0 min.	SCREEN SIZE: 4 inches from 405		_feet
WATER ZONES: from 405 to 415 feet		320 0t	008 _feet
fromtofeet	Multi colored clay	340 	feet
fromtofeet	CASE SIZE: 4 brainches if riom 0		feet
WATER: ColorTaste	inches from	400	feet
	Sentse sand	415	400
Odor°F	inches from	to	feet
WELL TO SUPPLY: (check one) Home	GROUTING: Method Pressure		
Farm Town School	Material <u>Cement</u> Dept	h50	feet
IndustryXOther	PUMP: Type Deming 60 cycle	Sub.	
WATER ANALYSIS AVAILABLE:YesNo	Capacity 1 1/2- I	IP get pe	- min
DRILL CUTTINGS SAVED: Yes No	HED FREE OF CHARGE UPON REQUEST.)		

FURNISHED BY:______DATE:_____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENET	RATED REMARKS
FROM	TO	(gravel, clay, etc., hardness, color	7507110 (1000)
0	20	Light brown & blue clay	TMAMT
20	40	Gray clay & shell	l l
40	60	и и	
60	80	Blue clay	THE LEGENTION COUNTY TRANS
80	100	Blue clay w/shell	og Island VEP Station
100	120	AD FERRARE POURTS ROADS, TOWNS,	7 NOTE LEAVE GO LYTE WE SOMATRIC DWG WOTTON BY BY THE PROPERTY OF CAMPACE MEMORY OF THE PROPERTY OF THE PROPER
120	140	DATE COMPLETED 4-4-70	
140	160	U " "	1
160	180	HI 430 "TOIS!	PE OF DRILL PIG USED_ Bydras Lic Fotary
180	200	<u>й</u> и и <u>100</u> втотно	ATER LEVEL Standal 67 Less billow
200	220	Hard zone (no sample)	LIS NOTE DEPOSITS OF STREET
220	240	Blue clay	ELD TEST, Walled Pump
240	260	Fine black sand w/some gravel Drilling mud to heavy (no samp	The second secon
260	280	Drilling mud to heavy (no samp	ole)
280	5 00E 41	OA Ditto A BEER MEERS 400	Durglian 48 are 0 vic
300	320	Ditto	
320	340	Multi colored clay	TER ZONES: ************************************
340	360	Ditto	1 sq. (1 mo.) 1
360	380	Medium sand	1 a 2 4 a 4 a 4 a 4 a 4 a 4 a 4 a 4 a 4 a
380	400	Ditto	
400	415	Coarse sand	
10 m2 h	- 21		70.00
		GROUTING Manked Pressure	amolt (kna mana) TV, 19902 (OT JJ)
test0	3	puresus Cement De	Force Power
		PUMP! Topy Deming 60 cycl	The state of the s
	ries TH	-\$2	TER ANALYSIS AVAILABLETVA
0.51	0.5	I :e kutu = 1 p = 450 y C	LL CUTTINGS SAVED VILL NO.
2197			HELE COTTRACT COUNTY BUTCHLUSS CONTRACTOR AND TORNING MINES STREET
			2XAA

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

INTERVAL SHEET

Page 1 of 1 Well Repository No: W-2799 C-132
Date rec'd: 4/20/70 Date Processed: 4/21/70 Sample Interval: from: to: 20 415'
PROPERTY: Tidewater Const. Co. (Vepco) Number of samples: 16

COMPANY: Magette Total Depth: 415'

COUNTY: Surry (Hog Island) Oil or Gas: Water X Exploratory:

From-To	From-To	From-To	From-To
- 20		-	_
- 20	_		-
- 40 - 60	_	-	=
	_	_	· -
- 80 - 100	_	_	-
100			
- 120	<u>-</u>	-	-
- 140	_	_	-
- 160	-	-	-
- 180	_	<u>=</u>	-
- 200	_	-	-
,			
- 240	-		-
_	_	-	-
_	-	=	_
	_	1€	-
_	i_	2 	-
- 340	-	-	=
- 360	-	-	-
- 380	-) -	:
- 400	-	_	_
- 415	. -	-	-
-	-	-	_
-	-	-	_
-	-	-	_
-	- /	-	_
-	-	-	. = :

All intervals have both washed and unwashed samples.

OWNER: Tidewater Construction Co.

DRILLER: Magette

COUNTY: Surry (Hog Island)

W#: 2799 C#: 132

TOTAL DEPTH: 415'

GEOLOGIC LOG

Depth (feet)

- 0-20 Clay grayish orange; moderate sand; medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; ferracrete; few grains of glauconite; few opaques; black phosphatic material.
- 20-40 Clay light olive gray; silty; sandy; fine grained, few pebbles; subangular to subrounded; well sorted; quartz; few shell fragments; black phosphatic material; few opaques; muscovite; forams (inc. Bulimina, Nonion, and Textularia); bone fragments; ostracode; spines rare.
- 40-60 Clay light olive gray; abundant sand; fine to medium grained, few granules; subangular to subrounded; moderately sorted; quartz; black phosphatic material; some vivianite (bladed and balls); few opaques; shell fragments; few grains of glauconite.
- 60-80 Clay yellowish gray; sandy; fine to medium grained, few pebbles; subangular to subrounded; moderately sorted; quartz; black phosphatic material; some vivianite (bladed and balls); forams (inc. Nonion, and Bulimina); glauconite.
- 80-100 Clay yellowish gray; sandy; fine to medium grained, pebbles; subangular to subrounded; poorly sorted; quartz; black phosphatic material; vivianite; forams (inc. Nonion, Textularia, and Bulimina); glauconite.
- 100-120 Clay yellowish gray; sandy; fine to medium grained; subangular to subrounded; moderately sorted; quartz; black phosphatic material; forams (inc. Bulimina, Nonion, Textularia, Siphigenerina, Uvigerina, and Buccella); shell fragments; glauconite, spines; vivianite.
- 120-140 Clay yellowish gray; sandy; fine to medium grained, pebbles; subangular to subrounded; moderately sorted; quartz; black phosphatic material; shell fragments; forams (inc. <u>Bulimina</u>, <u>Textularia</u>, and <u>Nonion</u>); spines; glauconite; ostracodes; vivianite.
- 140-160 Clay yellowish gray; minor pinkish clay; sandy; fine to medium grained, granules, pebbles; subangular to subrounded; moderately sorted; quartz; shell fragments; glauconite; forams (inc. Nonion, Bulimina, Buccella, Quinqueloculina, Textularia, and Robulus); ostracodes; shark's tooth.

Depth (feet)

- 160-180 Clay yellowish gray; sandy; medium grained, few granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; shell fragments inc. gastropod; black phosphatic material; muscovite; forams (inc. Nonion, Bulimina, Siphigenerina and Textularia); ostracodes; teeth; glauconite; spines.
- Clay yellowish gray; sandy; fine to medium grained, granules, pebbles; subangular to subrounded; moderately sorted; quartz; black phosphatic material; muscovite; shell fragments; forams (inc. Nonion, Bulimina, and Textularia) bone fragments; glauconite.
- 200-220 No sample.
- 220-240 Clay yellowish gray; sandy; medium grained, pebbles; subangular to subrounded; moderately sorted; quartz; shell fragments; black phosphatic material; forams (inc. Nonion, Bulimina, and Textularia); spines.
- 240-320 No sample.
- 320-340 Clay yellowish gray; sandy; fine to medium grained, few granules, pebbles; subangular to subrounded; moderately sorted; quartz; shell fragments; black phosphatic material; some muscovite; forams (inc. Nonion, Bulimina, and Textularia); glauconite; ostracode; vivianite.
- Clay yellowish gray with pale yellowish orange bleebs; sandy; medium grained, granules, pebble; subangular to subrounded; moderately well sorted; quartz; glauconite; shell fragments; forams (inc. Nonion, Bulimina, Textularia, Buccella, and Siphogenerina); black phosphatic material.
- 360-380 Sand light gray; slightly clayey; medium to very coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few grains of garnet; sandy limestone fragment.
- 380-400 Sand light gray; moderate clay; medium to very coarse grained, subangular to subrounded; moderately sorted; quartz; feldspar; glauconite; garnet; muscovite.
- 400-415 Sand light gray; moderate clay; medium to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; glauconite; garnet; sandy limestone fragment.

Logged by: Michael T. Currie

Vivianite verified by X-ray diffraction occurs as bladed matrix and finer grained bluish balls.

GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Rock Unit	Time Rock Unit
0-20	20	alluvium & Norfolk For.	Recent-Pleistocene
20-240 ⁺	220+	Calvert Formation	Miocene-Eocene
240-320	80	No Sample	
320 ⁺ -415	95 [†]	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES David A. Hubbard, Jr., Geologist July 7, 1978