COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

4889

204

W#:

C#:

JAMES L. CALVER, COMMISSIONER Br 3667 McCormick Road C. lottesville, VA 22903 WATER WELL COMPLETION REPORT Charlottesville, Virginia George Christofferson 3508 Oaklawn Blvd. OWNER: L. S. Building Contractor Mailing Address: Hopewell, Va. 23860 TENANT: _____ _____ Mailing Address:__ 16815 Happy Hill Rd. DRILLER: J. J. Mitchell, III Mailing Address Colonial Heights, Va. 23834 WELL LOCATION: County Prince George Approx feet office (direction) of Prince George Country Club Estates ____and_____feet___miles ____(direction) of ___ Lot 8, Block A, Section 1 _ miles __ (GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.) DATE STARTED: June 1977 DATE COMPLETED: June 1977 TYPE OF DRILL RIG USED: Combination _____TOTAL DEPTH 168'6" feet WATER LEVEL: Stands 44 feet below surface CR has NATURAL flow of_____gallons per minute. YIELD TEST: Method Pumped HOLE SIZE: 72 inches from 0 to 14 feet $5\frac{1}{2}$ inches from 14 to 146 feet Drawdown ____ 88 ____ feet pump pipe 12^{took} no air ____ gal. per min. Duration 8 hrs., min. SCREEN SIZE: 4 inches from 147'4" to 168'6" feet WATER ZONES: from ______to _____feet _____inches from _____to ____feet ____inches from _____to____feet from _____feet CASE SIZE: 4 inches from +1 td68'6" feet from _____to____feet WATER: Color_____Taste___ ____inches from____to____feet Odor_______°F ____inches from ____to___feet WELL TO SUPPLY: (check one) Home X GROUTING: Method _____ Farm _____ Town ____ School ____ Material _____ Depth _____ 14 ____ feet Industry____Other__ PUMP: Туре _____ WATER ANALYSIS AVAILABLE Yes _____No ____ Capacity_____gal. per min DRILL CUTTINGS SAVED: 17 Yes_x__No____ Depth of intake __ (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT, SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.) R ARKS:

FURNISHED BY: Mitchell's Well & Pump

DATE

FROM TO Orange 10 Orange 20 Ditto 30 Gray n 40 130 Gray n 168'6" Gray s	and & shell sand & gravel sand & shell	or, etc.) AT AT Called a Countractor AT AT Called a Countractor Called a Countractor Called a Countractor Called a Countractor Called a Country Club Estator By Block A, Section 1 Called a Countractor Called
20 Ditto 30 Gray m 40 130 Gray m 140 150 Gray s 168'6" Gray s	mud & shell sand & gravel sand & shell	J. J. Mitchell, III LOCATION TRINGS COURTS S. BLOCK A. Section 1 S. BLOCK A. Section 2 Later C. Section 2
10 Orange 20 Ditto 30 Gray n 40 130 Gray n 140 150 Gray s 168'6" Gray s	mud & shell sand & gravel sand & shell	J. J. Mitchell, III LOCATION TRINGS COURTS S. BLOCK A. Section 1 S. BLOCK A. Section 2 Later C. Section 2
30 Gray n 40 130 Gray n 140 150 Gray s 168'6" Gray s	and & shell sand & gravel sand & shell	C TEST Manner Durch States OF CREE RES COUNTY Club Estates SIARTED: June 1977 OF CREE RES USER: Gombination OF CREE RES
30 Gray 10 130 Gray 10 140 150 Gray 10 168'6" Gray	and & shell sand & gravel sand & shell	C TEST Manner Durch States OF CREE RES COUNTY Club Estates SIARTED: June 1977 OF CREE RES USER: Gombination OF CREE RES
140 150 Gray s 168'6" Gray s	sand & gravel sand & shell	STARTED: June 1977 OF DRILL RIG URED: Combination OF TEST Manual Pumped
168'6" (Gray s	sand & shell	STARTED: June 1977 OF DRIVE RIG USEC: Combination OF TEST Manual Pumped Test as a SS and pump pike 12 took no aix
DEPI 168'6" 168'	TATOL STATE THE TATOL STATE THE TATOL STATE THE TATOL STATE	O TEST Manual Pumped 12 took no aix
14 15 15 16 16 16 16 16 16	E sochward met verstry	No. 12 took no aix
Tem 146 Tem	NOTE THE SECTION OF T	O 7EST Manag Pumped Tunped Tuning pike 12 took no six
Tem 14 14 14 15 15 15 15 15	NOTE THE SECTION OF T	O 7EST Manag Pumped Tunped Tuning pike 12 took no six
Total	**************************************	C 783T Manuary Dumped Pumped Pump pike Research no air
	4	2 teok no air
		tis on soot
14744 168 168 169 169 169 169 169 169 169 169 169 169		
1991	SCREEN AND A COLUMN	
83L33L James 1		
		3 20MSS nom
		1497
	-HP 3216 3590	1897
(9) 1 1 1 1 1		P1010
		EEmail time Mannistry_MANNE OF .
		Form Fact Fact
		16 0 10
5 31 199 25		a charasta avaltagi s ni
(41,		CUTTINGS SAVED 17 101x
and it moved by you		THE POST OF THE PROPERTY OF THE MUNICIPAL CONTROLS.
		288

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

INTERVAL SHEET

Page 1 of

Well Repository No: W#: 4889

C#: 204

Date rec'd: 8/29/77 Date Processed: 9/19/77

Sample Interval: from:0to:160

PROPERTY: Prince George Country Club Est.

Number of samples: 17

(G. Christofferson)

COUNTY: Prince George (Pr. Geo. C. H.)

Total Depth: 1682'

COMPANY: J. J. Mitchell

Oil or Gas: Water: XExploratory:

From-To	From-To	From-To	From-To
- 0	-	_	-
- 10	-	-	-
- 20	-	-	-
- 30		-	· ·
- 40	_	_	-
- 50	-	1 <u>—</u> 1	-
- 60		-	=
- 70	-	_	_
- 80	=	_	=
- 90	_	_	_
- 100	U -	_	_
- 110	-	=	
- 120		-	-
- 130	-	_	
- 140	-	_	_
- 150	-	_	_
-160	(a)	¥	-
_	¥	-	-
	a —	-	-
-	a =	_	_
5	-	=	-
-	- ·	<u>~</u>	_
-	_	1 -	
_	-	_	-
-	<u> </u>		

Washed and unwashed samples.

OWNER: Prince George Country Club Est.

DRILLER: Mitchell's

COUNTY: Prince George W#: 4889 C#: 204

TOTAL DEPTH: 168'6" QUAD .: Prince George

GEOLOGIC LOG

Depth (feet)	
0-10	Sand — dark yellowish orange; moderate clay; silty; very fine to medium grained, some coarse grains; subangular to subrounded; poorly sorted; quartz; some feldspar; some opaques.
10-20	Clay — dark yellowish orange; slightly sandy; medium to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; few grains of glauconite.
20-30	Clay — dark yellowish orange, light gray, light olive gray; few grains of quartz.
30-40	Sand — light olive gray; moderate clay-light olive gray, dark yellowish orange; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; some glauconite; few black phosphatic fragments; biotite; muscovite.
40-50	Shell hash — light grayish brown; slightly clayey; abundant sand; fine to medium grained; subangular to subrounded; moderately well sorted; 60% shell fragments; quartz; 3% glauconite (black, green); 3% black phosphatic material; some spines; few flakes of biotite.
50-60	Sand — olive light gray; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 25% shell fragments; 3% glauconite; 2% black phosphatic material; some spines; forams (inc. <u>Buccella</u>).
60-70	Sand — olive light gray; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 35% shell fragments; 3% black phosphatic material; some glauconite; spines; ostracodes; foram.
70-80	Shell hash and sand-light olive gray; slightly clayey; fine to medium grained; well sorted; 50% shell fragments; quartz; 5% glauconite; some black phosphatic material; spines.
80-90	As above plus some coarse grains; moderately sorted; 45% shell fragments.
90-100	Shell hash — olive light gray; slightly clayey; abundant sand;

fine to coarse grained, some granules; subangular to subrounded; poorly sorted; 65% shell fragments; quartz; 3% glauconite; 2%

black phosphatic material; some spines.

W#: 4889

Depth (feet)

> Sand - olive light gray; slightly clayey; fine grained to gravel; 100-110 subangular to subrounded; poorly sorted; quartz; 20% shell fragments; 3% glauconite (black, green); 2% black phosphatic material; feldspar; spines; garnet.

-2-

- 110-120 Sand — olive light gray; slightly clayey; fine to coarse grained, 5% granules; some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 7% shell fragments; 5% glauconite; some black phosphatic material; spines; garnet.
- 120-130 Sand — light brownish gray; slightly clayey; granular, some coarse grains, some pebbles; angular to subrounded; moderately sorted; quartz; feldspar; some shell fragments.
- 130-140 As above except coarse grained to granular; subrounded.
- 140-150 Sand — off white; slightly clayey; medium to coarse grained, few granules, some pebbles; subrounded; moderately sorted; quartz; feldspar; some glauconite.
- 150-160 Sand - white; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some pyrite; garnet.

160-168'6" As above except slightly clayey; few grains of garnet.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

Depth (<u>feet</u>)	Thickness (feet)	Rock Unit	Time Rock Unit
0-30	30	Moorings "Unit"	Pleistocene
30-120	90	Calvert Formation	Miocene-Eocene
120-168'6"	48'6"+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES David A. Hubbard, Jr., Geologist September 15, 1978