#### VIDCIALIA

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

# DIVISION OF MINERAL RESOURCES

Bc 3667 C. lottesville, VA 22903 JAMES L. CALVER, COMMISSIONER

WATER WELL COMPLETION REPORT

OFFICE ADDRESS: McCormick Road Charlottesville, Virginia

W#: 3797

C#: 158

OWNER: Hanover County	Mailing Address: Hanover County CH. Hanover VA.
TENANT: Beaverdam Park Subdivision	
	Rt. 1. Box 110
DRILLER: Mitchell's Well & Pump Co.	
WELL LOCATION: County Hanover	Approx. 12 feet going South (direction) of
on Rt. #156 direction of Cold Harbor and	feet(direction) of
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TOURNTY HIGHWAY OR OTHER MAP.)	DV 0.9
DATE STARTED: November 1972	_DATE COMPLETED: December 1972 08
TYPE OF DRILL RIG USED: Cable Tool	TOTAL DEPTH 320 3/4 feet
WATER LEVEL: Stands 162 feet below	
has <u>NATURAL</u> flow of_	gallons per minute. 041 081
YIELD TEST: Method Pumped	HOLE SIZE: 12 inches from 0 to 50 feet
Drawdown80feet	Love 50 to 320 3/4
Rate 128 gal. per min.	inches_fromtofeet
Duration 86 hrs., 25 min.	SCREEN SIZE: 5 inches from 276'7" to 318'7" feet
WATER ZONES: from 276 to 318 feet	inches from to feet
fromfeet	inches fromtofeet
fromtofeet	CASE SIZE: 6 inches from 0 to 288 3/Aeet
WATER: Color Clear Toste good	inches fromtofeet
OdorNoneTemp°F	feet
WELL TO SUPPLY: (check one) Home	GROUTING: Method <u>pumped under pressure</u>
FarmTownSchool	Material Cement & waterepth 50 feet
IndustryOther_Subdivision	PUMP: Type
WATER ANALYSIS AVAILABLE: YesNo _XX	Capacitygal. per min
DRILL CUTTINGS SAVED: Yes XX No	Depth of intakefeet
(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS HED FREE OF CHARGE UPON REQUEST.)
R RKS:	
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FURNISHED BY: Mitchell's Well & Pump Company

December 28, 1972

(fe	TH CALL	TYPE OF ROCK OR SOIL PENETR	ATED REMARKS				
FROM	TO <sub>SH</sub>	( gravel, clay, etc., hardness, color,					
		assunA princip	NANT: Resverdem Perk Subsilvision				
		Pt. 1, Box 110					
0	10000	S .AV .zdpH .lpP	THER Mitchell's Well & Pump Co.				
250	220	Top Soil					
10 20	7.330.0	Red Clay	LL LOCATION CORNE Manovar				
	30	Ditto					
30 40	40		Rt. #156 direction of Cold Harlor				
50	50	Blue Mud Ditto	VE OPROFION AND SENANCE OF RELET OR MILET FROM				
60	60 70	Ditto	CHAN BELLEVE BY ARMITTA TENER				
5,50	100	H. d. and and a					
70	80	LUATE COMPLETED: Decombur	IE STARTED November 1972				
80	90						
90 1	100	White clay	PE OF DRILL RIGHTED Cable Tool				
100	110	Blue mud	15 % E				
110	120	Ditto Romana de la companio de la co	(TER LEVEL: Stande 162 cal Delto-				
120	130						
130	140	stores two explications	To wort JARUTAN FOR				
140	150	Black mud & shell	E CONTRACTOR				
150	160	Ditto an SI SIS BUON	ELD TEST Melnon Pumped				
160	170	u a					
170	180	Green clay - gravel	(44)080				
180	190	White mud-gravel	128				
190	200	Ditto	10 to				
200	210	White sand	9.61				
210	220	Ditto Sala V33938	Duration 26 tra 25 pm				
220	230	"	276 318				
230	240	Sand & gravel	TER ZONES: from 276 10 318 16+1				
240	250	Ditto					
250	260	u ·	1 8 9 7				
260	270	CASE SIZE:					
270	280		101				
280	290	Sand	TERTONIA CLERK TERMS CORD				
290	300	Sand & gravel	16102 . 71.2 1				
300	310	Sand & gravel	7° 4meT 9000 1660				
310	320	Ditto					
10/56	HODANA WAS	GROUTING, Market 920 ed uni	L. TO SUPPLY Trainer and dome.				
	n or a constant		22				
0.01	50	Margaret Cement & water	Form fower School				
			Jedestry Other Subdivision				
100	100		NER ANALYSIS AVAILABLETYGNO XX_				
e 6 1,			LI GUTTINGS SAVED VAR OF NO.				
THIS	7 0794INE		TORE OF THE USE OF AN ARMOUNT REPORTED OF				
	0.7		SIGE EXPRESS OF LEVEL SAMPLE BASE ARE FURNIS				
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			Q.				

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

#### INTERVAL SHEET

	Рa	ıge	1		of	1			Well Re	epository No	
	Da	ιte	e rec'd	l: 1/22/7	73	Date	Processed:	9/10/73	Sample	Interval: f	C#: 158 rom: to: 0 320
	PF	ROE	PERTY:	Hanover	Cou	inty			Number	of samples:	
	COMPANY:		(Beaver Mitchel	dam 1's	Park :	Sub.) P. Co.		Total 1	Depth: 320 3/	4	
	CC	UU	TTY:	Hanover (Mechan		ille)			Oil or	Gas: Water:	Exploratory:
	Fr	on	n-To		Fro	m-To		From-To		From-To	
	0	_	10	25	50 -	60		-		_	
	10	-	20	26	50 -	70		5 <del>=-</del> 0			
	20	-	30	2	70 -	80		-			
	30	-	40	28	30 -	90		/ <u></u> /		/ <del>***</del>	
	40	-	50	29	90 -	300		-		-	90
	50		60		00 -			-		-	**
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23			30					_		25.	
			40					_		-	
24	U	-	50					1200		<del></del> .0	

All intervals have washed and unwashed samples.

OWNER: E.A. Dixon

(Beaverdam Park Sub.)

DRILLER: Mitchell's W. & P. Co.

COUNTY: Hanover

(Mechanicsville)

W#: 3797 C#: 158

TOTAL DEPTH: 320 3/4

QUAD: Seven Pines

## GEOLOGIC LOG

Depth (feet)	
0 - 10	Sand very dark yellowish orange; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
10 - 20	Sand pale yellowish orange; slightly clayey; medium to coarse grained, 10% granules, 5% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques.
20 - 30	As above except some pebbles; few flakes of muscovite.
30 - 40	Sand dark yellowish orange; slightly clayey; medium grained to granular, some fine grains, 5% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.
40 - 50	Clay light olive gray; moderate sand; fine grained; subangular to sub-rounded; well sorted; quartz; few flakes of muscovite.
50 - 60	As above plus few grains of glauconite.
60 - 70	As above except slightly sandy.
70 - 80	As above plus some olive light gray clay.
80 - 90	Sand olive light gray; moderate clay; fine to medium grained, some very coarse grains, some granules; subangular to rounded; moderately well sorted; 50% glauconite; quartz; 5% black phosphatic material inc. shark's tooth; few flakes of muscovite.
90 - 100	Sand olive light gray; moderate clay; fine to medium grained; subangular to rounded; well sorted; quartz; 20% glauconite; 2% muscovite; few black phosphatic fragments.
100 - 110	Limestone fragments - light gray; moderate clay; abundant sand; fine to coarse grained; subangular to rounded; moderately sorted; 70% limestone fragments; 20% glauconite; quartz; few flakes of muscovite.
110 - 120	Clay light gray; abundant sand; fine to medium grained; subangular to rounded; well sorted; glauconite, 70% of sand sized fraction; quartz; few flakes of muscovite; few limestone fragments.

Depth	
(feet	١

- 120 130 Sand light gray; abundant clay; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; 5% glauconite; some black phosphatic material; some limestone fragments; few flakes of muscovite.
- 130 140 Clay olive light gray, light gray; moderate sand; fine to medium grained; subangular to rounded; well sorted; quartz; glauconite, 15% of sand sized fraction; 2% muscovite; few limestone fragments.
- 140 150 Sand olive light gray; moderate clay; fine grained; subangular to subrounded; well sorted; quartz; 10% shell fragments; 5% glauconite; forams common (inc. Robulus); few flakes of muscovite; bone fragment; ostracode.
- 150 160 Sand olive light gray; abundant clay; fine to medium grained; subangular to subrounded; well sorted; quartz; 10% glauconite; 7% shell fragments; forams common (inc. Robulus); few flakes of muscovite.
- 160 170 Sand and shell fragments light olive gray, off white; fine to medium grained, some coarse grains; subangular to rounded; moderately well sorted; 40% shell fragments; quartz; 20% glauconite; bone fragment.
- 170 180 Sand and clay pale olive; moderate clay; abundant sand; coarse grained to gravel; subangular to subrounded; poorly sorted; quartz; 2% glauconite; few shell fragments.
- 180 190 Sand light olive gray; slightly clayey; medium grained to granular, 7% pebbles; subrounded; poorly sorted; quartz; feldspar; 3% glauconite; some shell fragments; few flakes of muscovite.
- 190 200 Sand yellowish gray; moderate clay; coarse grained to granular, some medium grains, some pebbles; subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite; glauconite.
- 200 210 As above plus some olive gray clay; few shell fragments.
- 210 220 Sand moderate orange pink; moderate clay moderate orange pink, yellowish gray; medium to coarse grained, 15% granules; subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite; glauconite; garnet.
- 220 230 Sand yellowish gray; moderate clay; coarse grained to granular, 5% pebbles; subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite; glauconite.
- 230 240 Sand and gravel off white; coarse grained to granular, 50% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite.

# Depth (feet)

- 240 250 As above except 40% pebbles; some glauconite.
- 250 260 Sand -- off white; coarse grained to granular, some pebbles; sub-rounded; moderately sorted; quartz; feldspar; few flakes of muscovite; glauconite.
- 260 270 Sand -- off white; very coarse grained to gravel (35%): subrounded; poorly sorted; quartz; feldspar; few flakes of muscovite.
- 270 280 As above except 20% pebbles; few grains of garnet; no muscovite.
- 280 290 As above except grayish red due to staining.
- 290 300 Sand -- off white; coarse grained to granular. 15% pebbles; sub-angular to su \_\_\_\_ swrounded; moderately sorted; guartz; feldspar; few grains of garnet.
- 300 310 As above except 10% pebbles.
- 310 320 As above except 20% pebbles.
- 320 320 3/4 No sample.

Logged by: Michael T. Currie Feb 8, 1979 OWNER: Harrower County (Beaverdam Park Subdivision)

W#3797

Depth Thickness
(Seet) (Seet) Rock Unit Time Rock Unit
0-40 40 Columbia Group Pleistocene
40-80 40 Eastoner For mation (Clare) Miscene
80-170 50 Nanjemon Matapani Formation Excene-Cretucous
170-320 150 Patricest Formation Cretoceous
320-32034 34 No Sample

VIRGINA DIVISION OF MINERAL RESOURCES David A. Hubbard, Jr., Geologist February 12, 1979