COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

DIVISION OF MINERAL RESOURCES MAILING ADDRESS: OFFICE ADDRESS: 3667 JAMES L. CALVER, COMMISSIONER McCormick Road C. rlottesville, VA 22903 WATER WELL COMPLETION REPORT Charlottesville, Virginia Contractor: Hingley Well & Water System 19 1000 2000 Glen Allen, Va. 23060 OWNER: ____ _____ Mailing Address: _____ TENANT: Toto Potomoy Subdivision well #2 Mailing Address: Atlee Road, Hanover, Va. DRILLER: Mitchell's Well & Pump Company Mailing Address: Route #1, Box 110, Col. Hgts. sun amos .b feet jins bum bou ___(direction) of WELL LOCATION: County Hanover Approx. _ feet corner Atlee Road & Rt #556 (direction) of ___ __ and __ 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: October 1971 DATE COMPLETED: October 1971 TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH_ WATER LEVEL: Stands_____feet below surface OR base base burn years has NATURAL flow of_____gallons per minute HOLE SIZE: 12 inches from 0 to 50 YIELD TEST: Method ___ feet olade amos hun6leinches from 3 _to 300 Drawdown _____ feet inches from _ to Rate _____gal. per min. feet SCREEN SIZE:____inches from __ Duration _____hrs., ____min. to feet WATER ZONES: from ______to _____feet ____inches from __ to feet from_____to___ inches from to feet CASE SIZE: _____inches from_ from ______to_____feet WATER: Color_____Taste___ inches from feet House drive years winches from tofeet GROUTING: Method ___ WELL TO SUPPLY: (check one) Home _ feet WELL ABANDOMED AFTER Farm_____Town AIRET School O LAVOMES Industry____Other__ PUMP: Туре _____ WATER ANALYSIS AVAILABLE: Yes _____No ____ Capacity_____gal_per min Yes_30 No___ DRILL CUTTINGS SAVED: 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.

All materials was removed from well for future use & well abandoned.

FURNISHED BY: Mitchell's Well & Pump Company DATE: October 20, 1971

(feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)		REMARKS (water, caving, shot, screen, sample, etc.)	
FROM TO					
0	10	red mud and sand passing	C& Heav	ojajvihdo2 v	Toto Petom
10	20	11			
20	30	Molling Address Route #1, Tien 110		Vall & Pump	RILLER: Mischell's V
30	40	red mud and sand, some grave	1		
40	50	gray mud and sand, some shell	1		ELL LOCATION County
50	60	gray mud and sand		a Rt #556	corner Atlee Road &
60	70	gray mud and sand some shell	1	4	
70	80	gray mud and sand, some shell	T MORE SELIM		
80	90	marl and shell			
90	100	marl marl		1171 790	ATE STARTED Octo
100	110	marl and shell		Cable	YPE OF DRILL RIG L
110	120	marl		Ud ou	1 NOW TIME AD BAK
120	130	gray mud and sand so santing		810169	
130	140	11			
140	150	black and white sand	_in wolf _	has NATURA	
150	160	HOLE SIZE: 12 inches from			
160	170	The H saisti dr. 12 7 10 2 201			
170	180	sand, gravel and some shale			nwabwati .
180	190	11			
190	200	montreadon		ri ted lob	
200	210	SCREEN SIZE		N	
210	220	min commendate native			
220	230	mort asdon		of	ATER ZONES from
230	240	11			
240	250	TUIT asidon		01	
250	260	CASE SIZE:mehes 1chm_		0.1	
260	270	HILL SAUGHT TO TO NO.			
270	280	inches from		e la pT	ATERI Color
280	290	11			
290	300	mica along with rock	319	qmal	rob0
		GROUTING Method		email tene and	ELL TO SUPPLY! (cm
		WELL ABANDONED AFTER R	EMOVAL OI		
		PUMP! Type			
	/ñg	Capacity			ATER ANALYSIS AVA
				-	
	it daggare	Bupth of indice			NLL CUTTINGS SAV
	u de la	MTERVALS THESE SAMPLES MAY BE ED FREE OF CHARGE UPON REQUEST			
	.ba	ell for future use & well abando	w mort bavo	rials was ren	MARKS All mate
		Navo (Jaaw (Use additional forms			

COMMONWEALTH OF VIRGINIA

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MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

B 3667

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS: McCormick Road

WATER WELL Charlottesville, VA 22903 COMPLETION REPORT

Charlottesville, Virginia

Sontractor: Hingley Well & Water System OWNER:	Glen Alle		3060	NORT
TENANT: Toto Fotomoy Subdivision well #2	Mailing Address: Atlee Roa	d, Hanos	zer, V	a.
DRILLER: Mitchell's Well & Pump Company	. Mailing Address: Route #1,	Box 110,	Col. F	Igts.
WELL LOCATION: County Hanover	Approxfeet	ar ben !	(dire	ection) o
	feet(direct			
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T	The state of the state of the state of			6148
DATE STARTED: October 1971	DATE COMPLETED: Octo	ber 1971	17.7	0.6
TYPE OF DRILL RIG USED: Cable tool	TOTAL	EPTH_	300	feet
WATER LEVEL: Standsfeet below	surface OR	yan	021	120
has <u>NATURAL</u> flow of_	gallons per minu	e. 16	071	121
YIELD TEST: Method	HOLE SIZE: 12 inches	from 0	_to5	0 feet
Drawdownfeet	ulad a Hoa 6 unches	from	_to 30	0_feet
Rate gal. per min.	inches	from	_to	
Durationhrs.,min.	SCREEN SIZE:inches	from	_to	feet
WATER ZONES: fromtofeet	inches	from	_to	feet
fromtofeet	inches	from	_to	Des. feet
fromtofeet	CASE SIZE:inches	from	0085	feet
WATER: ColorTaste	inches	from	_t o	fe'e f
OdorTemp°F	ologic oliv≠ ol <u>a l</u> inches	from	_to	feet
WELL TO SUPPLY: (check one) Home	GROUTING: Method	REPAIR	4 14(3)	
FarmTown_I_School	Material	Depth_		feet
IndustryOther	PUMP: Type	90.46		Tariba Pari
WATER ANALYSIS AVAILABLE YesNo	Capacity		gal.	per min
DRILL CUTTINGS SAVED: Yes 30 No (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH		MAY BE SHI	PPED TC	feet
MARKS: All materials was removed from w	vell for future use & well	abandoned	1.	
ELEV.: 190' 4/73				N. J. Phase
YELLOW TAVERN QUADRANGLE				Will are
REFER : W-2221				

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

INTERVAL SHEET

C - 145

Page 1 of 1 Well Repository No: - 3367

Date rec'd: 11/18/71; processed 2/3/72 Sample Interval; from 0 to: 300'

PROPERTY: Toto Potomoy well #2 Number of samples: 30

COMPANY: Mitchell's W & P Co. Total Depth: 300'

COUNTY: Hanover (Poindexter) Oil or Gas: Water: Exploratory:

j.						
	From	m-	То	From-To	From-To	From-To
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	30	-	40	80 - 90	-	-
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	30	-	40	-	-	-
	40	_	50	-	~	-

OWNER: Totopotomoy Subdivision #2 DRILLER: Mitchell's Well & Pump Co.

COUNTY: Hanover (Poindexter)

W - 3367 C - 145 TOTAL DEPTH: 300

GEOLOGIC LOG

Depth (Feet)

COLUMBIA GROUP (0-401)

- 0-10 Sand abundant matrix of yellow clay; very fine- to coarse-grained, fairly well sorted (positively skewed), angular to subangular; mainly quartz, some feldspar
- Silt-Sand very abundant matrix of bright orangebrown clay, locally light-gray; coarse-grained silt to fine-grained sand, well sorted, angular; quartzose; traces of magnetite, muscovite, feldspar (?)
- 20-30 Sand orange-brown, slightly clayey, 5 to 10 percent granule gravel; fine- to very coarse-grained, poorly sorted, poorly rounded; less than 5 percent each of feldspar and blue quartz.
- 30-40 Sand orange-brown, slightly clayey, 15 to 20 percent fine-grained, rounded gravel (2 to 8 mm); very fine- to coarse-grained, fairly well sorted (positively skewed), angular; quartzose; traces of magnetite, garnet; some feldspar (mainly in gravel fraction).

CALVERT FORMATION (40-140^t)

- 40-50 Sand gray, moderately clayey; fine- to mediumgrained, moderately sorted, angular; quartz, with traces of magnetite, muscovite, feldspar.
- 50-60 Silt-Sand gray to greenish-gray, very locally tan or light-gray; very clayey; coarse-grained silt to very fine-grained sand, very well sorted, angular; very slightly micaceous and carbonaceous.

OWNER: Totopotomoy Subdivision #2 -2-

	60-70	Sand - gray, moderately clayey, 10 to 15 percent pelecypod shells and shell fragments and a few <u>Turritella</u> ; fine- to very fine-grained, very well sorted, angular; trace of muscovite		
	70-80	Clay and Shell - gray, compact clay with laminae or pockets of silty to sandy clay, and about 25 percent pelecypod shell fragments up to 15 mm; sand is generally fine-grained, well sorted, comprises quartz with traces of magnetite and muscovite		
	80-90	11		
	90-100	Silt-Sand - greenish-gray, abundantly and uniformly clayey, a very few fragments of chalky shell and bone phosphorite; coarse-grained silt to fine-grained sand, well sorted		
	100-110	or sandy; about 5 percent shell fragments, some of them iron-stained		
	110-12-	Clay - light-gray, moderately pulverulent; slightly diatomaceous		
	120-130	except: pulverulent, moderately diatomaceous		
	130-140	except: moderately diatomaceous to diatomaceous.		
MATTAPONI (?) FORMATION (140-150)				

Shattered Gravel (?) - mainly sand-size shards of
quartz -- clear, pale-yellow, and glauconitepigmented; glauconite-pigmented cleavage
fragments of feldspar fairly common; mediumgrained glauconite and garnet, rounded fragments
and splinters of phosphorite, and fragments of
pea-green glauconitic clay present in small amounts;
some evidence of re-angulation (broken rounds)

PATUXENT FORMATION (150-1701)

150-160	Sand - light-gray, clean; 5 to 10 percent discrete
	fragments of pale-green sectile clay; sand is medium- to very coarse-grained, moderately sorted, subangular; about 5 percent feldspar;
	trace of authigenic pyrite

160-170 " except: medium- to coarse-grained, fairly well sorted; without pale-green clay

PETERSBURG GRANITE (170-3001)

170-180	Biotite-microcline-granite saprolite - gray, gneissic;	
biotite partly decomposed; feldspar almo		
	completely decomposed	

180-190 "

190-200 " except: slightly less decomposed

200-210 Biotite-microcline granite - gray; feldspars altered, for the most part, to chalky white clay; biotite relatively unaltered

210-300 Biotite-microcline granite; except for appreciable muscovite in 250-260¹ interval, and downhole decrease in degree of decomposition only minor variations in relative proportions of biotite, feldspar, and quartz to bottom of well

GEOLOGIC SUMMARY

Depth (feet)	Rock Unit	Age
0-40	Columbia Group	post-Miocene
40-140	Calvert Formation	Miocene
140-150	Mattaponi Formation	Paleocene - Late Cretaceous
150-170	Patuxent Formation	Early Cretaceous
170-300	Petersburg Granite	Paleozoic (?)

VIRGINIA DIVISION OF MINERAL RESOURCES Robert H. Teifke - Geologist April 18, 1972