COMMONWEALTH OF VIRGINIA

MAILING ADDRESS: DIVISION OF MIN	NERAL RESOURCES OFFICE ADDRESS: OFFICE ADDRESS: OMPLETION REPORT Charlottesville, Virginia
OWNER: Jeter Brothers (S.P. & R.R., Jr.)	Mailing Address: Hanover, Virginia
TENANT: Aspen Hill Farm Subdivision	
DRILLER: Mitchell's Well & Pump Company	Mailing Address: R #1, Bx 110, Col. Hgts., Va. 238
	Approx. 2 1/4 * miles Northeast (direction) of
Mechanicsville on State Road #643 and 1/2	feet mile North (direction) of St. Rd. 360
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T	WO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: February 1972	
TYPE OF DRILL RIG USED: cable tool	TOTAL DEPTH 330 feet
WATER LEVEL: Stands 175 feet below	surface OR
has <u>NATURAL</u> flow of_	gallons per minute.
YIELD TEST: Methodpumped	HOLE SIZE: 12 inches from 0 to 50 feet
Drawdown73feet	_6inches from _50to _330feet
Rate 120 gal. per min.	inches fromtofeet
Duration 72 hrs., 40 min not continu	ouscreen SIZE: 5 inches from 307 to 327 feet
WATER ZONES: from 307 to 327 feet	inches_fromtofeet
fromtofeet	tnches fromtofeet
fromtofeet	CASE SIZE: 6 inches from 0 to 295 1/2 feet
WATER: ColorclearTostegood	inches from 295 1/2 307 feet
Odornoneremp°F	inches from 327 to 330 feet
WELL TO SUPPLY: (check one) Home	GROUTING: Methodpumped in
Farm Town School	Material water Depth 50 feet
IndustryOther_subdivision	PUMP: Type unknown
WATER ANALYSIS AVAILABLE:YesNo	Capacitygal. per min
OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	
ARKS: * SUGGESTED DEPTH SETTING F	OR PUMP 280'.

FURNISHED BY: Mitchell's Well & Pump Company DATE: February 1972

oldigriDEPTHasticlic (feet)		TYPE OF ROCK OR SOIL PENETRATED		REMARKS AV , SILVESTION	
FROM	то	(gravel, clay, etc., hardness, color	r, etc.)	(water, caving, shot, screen, sample, etc	
0	10	red clay sand sees by pullon	601	SHANT: Aspen HIII Faym Bublivia	
10	20				
20	30	II II II Assibb A sample	Ownepany	RILLER: Mitchell's Well & Pump	
30 1	I	tanadan Name Name		ELL COCATION County Hamover	
40	50	1 10 00 10	I		
50	60	to u(norther thank (direction) of	5 ond	Mechanicsville on State Road 🖟	
60 - 0	3 .2870 R	WO REFERENCE POINTY - ROAUS, TUWNS,	MUES FROM TI	VE DIRECTION AND DISTANCE IN PEET OR	
70	80	и и и		DUNTY HIGHWAY OR OTHER MAP!	
80	90	yellow sand ara Jamoo araq		WIE STARTED: February 1972	
90	100	white sand	1		
100	110	red clay	Loof o	ARE OF DRILL RIG USED Cab	
110	120	gray mud			
120	130	m m HO society	w (c) a d / (s)	ATER LEVEL: Stonds_175	
130	140	H H etunin red anollop	Xan mark i	ALBORATION OF SERVICE	
140	150	white clay	woll 2		
150	160	HOLE SIZE 12 Mon		ELD TEST Method Dumped	
160	170	11 11			
170	180	mon seasu	Tae		
180	190	black mud		Rote 120 gal per i	
190	200	11 11			
200	210	PUSCREEN SIZELE	un not continu	Duration 72 hrs. ±0 r	
210	220	gray mud			
220	230	white clay	leelle	ATER ZONES: from 307 ro 3	
230	240	gray gravel	1997	irom——to—	
240	250	11 11	1.0.0.1	mg rj	
250	260	CASE SIZE: 0 mBres fign.	1991	otmort	
260	270	red and white sand			
270	280	white and red sand	E000	TER Color Clear Tosin	
280	290	gray sand	51		
290	300	- WH (, 194Hu)		1007	
300	310	GROUTING, Method "Pumped I			
310	320	n wantenses			
320	330	a u u o se u u o o o o o o o o o o o o o o o o o		FarmTownSchoo	
		PUMP Type Huknown	* mole	tvibdus vegro vrtsubni	
nim neg	***	Capacity	011	TER ANALYSIS AVAILABLE: Yes	
561		Depth of intake #	3_N 5	ILL CUTTINGS SAVED. YELL	
1415	T DESIGNED T	VIEWVALS THESE SAMPLES MAY BE	n Tool of the	NEL COTTINGS SHOULD BE 201: SOTED	
		D FREE OF CHARGE UPON REQUEST	ARE FURNISHE	FFIGE EXPRESS COLLECT SAMPLE BAG	
		OR PUMP 280'.	I SETTING F	ARRS * SUGGESTED DEPT	
			1		

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MAILING ADDRESS:

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT W-3401

OF ANIALEDAL RESOLUTIONS

OFFICE ADDRESS:

REPORT

JAMES L. CALVER, COMMISSIONER

McCormick Road

B 3667 C__.lottesville, VA 22903

WATER WELL COMPLETION Charlottesville, Virginic

OWNER: Jeter Brothers (S.P. & R.R., Jr.)	Mailing Address: Hanover, Virginia	
TENANT: Aspen Hill Farm Subdivision Mailing Address Hanover, Virginia		
DRILLER: Mitchell's Well & Pump Company	Mailing Address: $R \# 1$, $Bx 110$, $Col. Hgts., Va. 238$	
WELL LOCATION: County Hanover	Approx 2 1/1 Mest Northeast (direction) o	
Mechanicsville on State Road #643 and 1/2	feet mile North (direction) of St. Rd. 360	
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TY COUNTY HIGHWAY OR OTHER MAP.)	NO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC - ON	
DATE STARTED: February 1972	DATE COMPLETED: February 1972	
TYPE OF DRILL RIG USED: cable tool	TOTAL DEPTH 330fee1	
WATER LEVEL: Stands 175 feet below	surface <u>OR</u>	
has <u>NATURAL</u> flow of	gallons per minute	
YIELD TEST: Methodpumped	HOLE SIZE. 12 inches from 0 to 50 feet	
Drawdown feet		
Rate 120 gal. per min.	tofeet	
Duration 72 hrs., 40 min not continu	ouscreen SIZE: 5 inches from 307 to 327 feet	
WATER ZONES: from 307 · to 327 feet	inches fromtofee	
fromtofeet	inches fromtofeet	
fromtofeet	CASE SIZE: 6 inches from 0 to 295 1/2 feet	
WATER: Color clear Toste good	inches from 295 1/2 307 feet	
Odor none Temp. °F	inches from 327 to 330 feet	
WELL TO SUPPLY: (check one) Home	GROUTING: Method <u>pumped in</u> cement &	
Farm Town School	Material water Depth 50 feet	
IndustryOther_subdivision	PUMP: Type unknown	
WATER ANALYSIS AVAILABLE: YesNo	Capacitygal per min	
DRILL CUTTINGS SAVED: Yes 33 No (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT IN OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHE		
REMARKS: * SUGGESTED DEPTH SETTING FO	OR PUMP 280'.	
SEVEN PINES QUADRANGLE		
ELEV. : 170'	late.	

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

INTERVAL SHEET

Page 1 of 1 Well Repository No: 3401

Date rec'd: 3/20/72 ; processed 3/22/72 Sample Interval; from 0 to: 330'

PROPERTY: Jeter Brothers Number of samples: 33

(Aspen Hill Farm)

COMPANY: Mitchell's W & P Co. Total Depth: 330'

COUNTY: Hanover (Mechanicsville) Oil or Gas: Water:x Exploratory:

1				
	From-To	From-To	From-To	From-To
	0 - 10	250 -260	=	
	10 - 20	260 -270	¥	Ξ.
	20 - 30	270 -280	_	-
	30 - 40	280 -290	-	
	40 - 50	290 -300	-	-
1	50 - 60	300 -310		
1	60 - 70	310 - 320	=	-
	70 - 80	320 - 330	_	
	80 - 90		_	_
	90 - 100	-	-	
	90 - 100	3 	**	.5
	100 - 110	-	-	_
	110 - 120	-	_	
	120 - 130	-	-	\E
	130 - 140	_	_	s=s
	140 - 150	1-1	-	y=c
	150 - 160	=		-
	160 - 170	=	- 1	S=8
	170 - 180	-	-	-
	180 - 190	-	-	5 9
	190 -200			-
	200 -210	~	÷	840
	210 -220		-	-
	220 -230	, 1 2	-	(=)
	230 -240	Ħ	Ξ	(=)
)	240 -250			-
1				

All intervals have both washed and unwashed samples.

OWNER: Aspen Hill Farm (Jeter Bros.) DRILLER: Mitchell's Well & Pump Co.

COUNTY: Hanover (Mechanicsville)

W-3401 C-146

TOTAL DEPTH: 330'

GEOLOGIC LOG

Depth (feet)

COLUMBIA GROUP (0-110')

COLUMBIA GROUP (0-110)			
0-10	Sand —	orange, slightly clayey; fine- to medium-grained, moderately sorted; iron-stained quartz with some feldspar	
10-20	11	except: fine- to coarse-grained, with 10 percent granule gravel	
20-30	Sand —	tan, very slightly clayey, with 10-15 percent fine- grained gravel (2-8 mm); fine- to coarse-grained, poorly sorted; slightly feldspathic; accessory magnetite	
30-40	11	except: medium- to very coarse-grained, moderately sorted	
40-50	Sand —	orange, very slightly clayey, a few small pebbles; medium- to coarse-grained, fairly well sorted; blue quartz common, feldspar rare	
50-60	Sand —	dark orange, very slightly clayey, with 25-30 percent fine-grained gravel; medium- to very coarsegrained, moderately sorted (skewed coarse); slightly feldspathic	
60-70	Sand —	light reddish-brown, trace of clay, trace of fine- grained gravel; fine- to coarse-grained, fairly well sorted; abundant blue quartz; moderately feldspathic	
70-80	Sand —	light greenish-yellow, clean; medium-grained, well sorted; very slightly feldspathic	
80-90	Sand —	light tan, very slightly clayey; medium- to coarsegrained, well sorted; quartz	

90-100 Sand — light tan, very slightly clayey; medium- to coarsegrained, well sorted; quartz

100-110 Sand — light tan with abundant matrix of bright orange-brown clay, a few fragments of ferricrete

CALVERT FORMATION (110-140')

110-120 Clay - gray, with orange mottles, slightly sandy; sand fraction consists of medium- to coarse-grained, subrounded clear quartz

120-130 Clay - gray, with orange mottles, moderately sandy; sand fraction consists of fine- to clarse-grained, angular to rounded clear quartz with minor amount of fragmental phosphorite; some very fine-grained glauconite

130-140

NANJEMOY FORMATION (140-180')

Clay - light greenish-gray, with trace of quartz sand; abundant dark- to light-green glauconite; fine-grained muscovite common; a few rounded nodules of phosphorite

150-160 " except: with lenses and pockets of greenish-brown clayey silt

160-170

170-180 Clay — light gray, with sparse quartz sand; 10 to 20 percent gray, silty, slightly-glauconitic limestone; porous bone (fragments?) common, appear not to have been reworked; a few pyrite concretions and plant remains

MATTAPONI FORMATION (180-220')

180-190	Sand —	dark greenish-gray, moderately clayey; fine- to very fine-grained, very well sorted; angular quartz with about 20 percent green glauconite, about 2 percent white mica and a few nodules of phosphorite; 5 percent chalky shell fragments; foraminifers (mainly Robulus and Nodosaria), ostracods and otoliths common
190-200	II.	except: abundant otoliths, and some pyrite
200-210		н
210-220		11
PATUXENT	FORM	ATION (220-330')
220-230	Sand –	yellowish-gray, clayey, a few pebbles of quartz and quartzite (up to 20 mm); mainly fine- to very fine-grained, well sorted; feldspathic (decomposed); muscovite common; traces of glauconite and garnet
230-240	Grave	l — fine-grained, fairly well sorted, angular; sub- ordinate amount of poorly sorted glauconite-bearing sand; gravel comprises too great a diversity of rock types and is too angular and shard-like to be considered a natural deposit
240-250		11
250-260		н
260-270	Sand —	tan, clean, with 10 to 20 percent fine-grained gravel; medium- to very coarse-grained, moderately sorted, poorly rounded; coarse-grained sand and gravel are stained orange; slightly to moderately feldspathic (feldspar content increases with grain size)
270-280		ш

280-290	Sand –	tan, clean, with 10 percent granule gravel; medium-grained, fairly well sorted; moderately feldspathic
290-300	Sand –	tan, clean, with trace of granule gravel; fine- to very coarse-grained, poorly sorted, poorly rounded; moderately feldspathic and lithic
300-310	Sand —	tan, clean, trace of granule gravel; medium- to very coarse-grained, moderately sorted, poorly rounded; moderately feldspathic
310-320	11	except: with 20 percent fine-grained (2-8 mm) quartzo-lithic gravel
320-330		п

GEOLOGIC SUMMARY

Depth (feet)	Rock Unit	Age
0-110	Columbia Group	post-Miocene
110-140	Calvert Formation	Miocene
140-180	Nanjemoy Formation	Eocene
180-220	Mattaponi Formation	Paleocene - Late Cretaceous
220-330	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources Robert H. Teifke - Geologist April 5, 1972