COMMONWEALTH DEPARTMENT OF CONSERVATION	OF VIRGINIA VDMR: 2327 WWCR: 178
MAILING ADDRESS: DIVISION OF MIN	IERAL RESOURCES OFFICE ADDRESS:
B 3667 JAMES L. CALVE	R, COMMISSIONER McCormick Road
C Nottesville, VA 22903 WATER WELL CO	OMPLETION REPORT Charlottesville, Virginia
OWNER: Process Plants Corporation	Mailing Address: 112-20 14th Ave., College Point, NY
TENANT: Same Well #1	Mailing Address: P.O. Box 337, Hopewell, VA 23860
DRILLER:Mitchell's Well & Pump Company	Mailing Address: R-1, Box 110, Col. Hgts., Va.
WELL LOCATION: CountyChesterfield	Approx. 2 miles west of St. Rt. 10 (direction) of
and 2 miles north of Hopewell City Limits	feet(direction) of
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T COUNTY HIGHWAY OR OTHER MAP.)	WO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED:9/10/68	DATE COMPLETED:9/17/68
TYPE OF DRILL RIG USED: cable tool	TOTAL DEPTH194feet
WATER LEVEL: Stands <u>44</u> feet below	surface <u>OR</u>
has <u>NATURAL</u> flow of	gallons per minute.
YIELD TEST: Method	HOLE SIZE: 10 inches from 0 to 20 feet
Drawdown <u>86</u> feet	<u>6</u> inches from <u>20</u> to <u>194</u> feet
Rate <u>150</u> gal. per min.	inches fromtofeet
Duration <u>19</u> hrs., <u>15</u> min.	SCREEN SIZE: 6 inches from 174 to 194 feet
WATER ZONES: from <u>174</u> to <u>194</u> feet	inches fromtofeet
fromtofeet	inches fromtofeet
fromtotofeet	CASE SIZE: 6 inches from 0 to 169'4'' feet
WATER: Color_clearToste_good	inches fromtofeet
Odor <u>none</u> Temp°F	inches fromtofeet
WELL TO SUPPLY: (check one) Home	GROUTING: Method _ poured
Farm Town School	cement - Material <u>water</u> Depth <u>20</u> feet
Industry_XXOther	PUMP: Type_Submersible
WATER ANALYSIS AVAILABLE Yes No	Capacity 147 gpm @ 60# pressure min
DRILL CUTTINGS SAVED: Yes_X_No (DRILL CUTTINGS SHOULD BE COLLECTED AT IO FOOT I OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHE	Depth of intake <u>from 150' depth</u> feet NTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS ED FREE OF CHARGE UPON REQUEST.)
ARKS:	17.

# LOG

# FURNISHED BY: Mitchell's Well & Pump Co. DATE: 10/3/68

DEF (fe	PTH et)	TYPE OF ROCK OR SOIL PENETRATED	REMARKS
FROM	то	(gravel, clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, etc.)
0	10	red mud	
10	20	red mud and sand	
20.	30	red mud and sand	and a second second second second second
30	40	mud and sand	
40	50	mud, sand and some gravel	
50	60	sand and gravel	
60	70	sand and gravel	Real of anel an shirt equipment of an
70	80	sand and gravel	
80	90	sand and gravel	
90	100	sand and gravel	a sector states a
100	110	sand and gravel	
110	120	sand and gravel	
12.0	130	sand and gravel	
130	140	sand and gravel	
140	150	sand and gravel	
150	160	mud little sand	
160	170	sand and gravel	the second se
170	180	sand and large gravele	
180	194	sand and gravel	5
100	1/1	Sand and graver	

C DEVELOPMENT URCES OFFICE ADDRESS: McCormick Road REPORT Charterspitte, Virginia 2-20 14th Ave., College Point, N 11356 C. Box 337, Hopewell, VA 23860 -1, Box 110, Col. Hgts., Va. 23834 West of St. Rt. 10 (direction) of (direction) of (direction) of TTS - ROADS, TOWNS, RIVERS, ETC ON ED: 9/17/68 OTAL DEPTH 194 feet per minute. 10 inches from 0 to 20 feet 6 inches from 20 to 194 feet
URGES       OFFICE ADDRESS: McCormick Road         REPORT       Charterszitte, Virginia         2-20 14th Ave., College Point, N         11356         C. Box 337, Hopewell, VA 23860         -1, Box 110, Col. Hgts., Va.         23834         illes west of St. Rt. 10 (direction) o        (direction) of        (direction) of         ITS - ROADS, TOWNS, RIVERS, ETC ON         ED:       9/17/68         OTAL       DEPTH         194       feet         6inches from       20feet
REPORT Contractions in the virginia 2-20 14th Ave., College Point, N 11356 C. Box 337, Hopewell, VA 23860 -1, Box 110, Col. Hgts., Va. 23834 iles west of St. Rt. 10 (direction) of (direction) of (direction) of TTS - ROADS, TOWNS, RIVERS, ETC ON ED: 9/17/68 OTAL DEPTH 194 feet per minute. 10 inches from 0 to 20 feet 6 inches from 20 to 194 feet
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<u>6</u> inches from <u>20</u> to <u>194</u> feet
inches from <u>20</u> to <u>194</u> feet
inches fromtofeet
6inches from <u>174to194</u> feel with 5' blank above
inches fromtofee
inches fromtofeet
6 inches from 0 to 1691411 fee
inches fromtofeel
tofee
athod poured
cement -
Colore Depth Tee
LAZ come 6 60 <sup>#</sup> procession
pacity gorn @ 60# pressure min
pth of intake <u>from 150' depth</u> fee SAMPLES MAY BE SHIPPED TO THIS
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## INTERVAL SHEET

Page 1 of 1	WWCR: 178 VDMR Well No: 2327
Date rec'd: 11/25/68	Sample Interval: from 0 to: 194'
PROP: Process Plant Corp., Well #1	Number of samples: 19
COMP: Mitchell's Well & Pump Co.	Total Depth: 194'
COUNTY: Chesterfield (Hopewell)	Oil or Gas: Water:XExploratory:

From-To

From-To

From-To - - -- -

0		10	- ÷	-
10	Ξ.	20		-
20	-	30		-
30	-	40		-
40	-	50		-
10		50		
50	-	60		-
60	-	70	·	-
70	_	80		_
80	22	90		2
90		100		_
90		100		
100	-	110		2
110		120		
120		120		57 57
120	-	140		-
130	7	140		-
140	-	150	- , - , - , - , - , - , - , - , - , - ,	-
150		1/0	8	
150	-	160		-
160	1	170		-
170	-	180		-
180	-	194		-
	-			-
	-			-
	-			-
	-			-
	-			-
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	-			-
	-			-
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All intervals have both washed and unwashed samples.

OWNER: Process Plants Corporation (Well #1) DRILLER: Mitchell's Well and Pump Company COUNTY: Chesterfield (Hopewell) VDMR: 2327 WWCR: 178 TOTAL DEPTH: 194'

#### GEOLOGIC LOG

Depth in feet

#### CALVERT FORMATION (0-10')

0-10 Clay — yellowish-brown, 15% coarse silt and fine sand; goethite pellets common

#### MATTAPONI FORMATION (10-40')

10-20	Clay and sand — 65% reddish-brown clay; 35% fine to very fine, well-sorted sand, with minor weathered glau- conite and muscovite, and trace of magnetite
20-30	U
30-40	Gravel, clay, and sand — 40% slightly feldspathic and moderately lithic quartz gravel; 40% orange-brown and bluish-green clays; 20% fine to coarse, moder- ately feldspathic sand (glauconite is concentrated in blue-green clay)
PATUXEN	T FORMATION (40-194 <sup>1</sup> )

# 40-50 Sand and gravel — tan, slightly clayey (10%); 60% medium to very coarse, poorly sorted, angular to subrounded sand; 30% fine (2-12 mm) rounded gravel; coarse and very coarse sand grades and gravel fraction contain abundant, intensely decomposed feldspar

- 50-60 " subequal amounts of sand and gravel
- 60-70 Sand orange-brown, slightly clayey (10%); medium to very coarse, moderately sorted, angular to subrounded; feldspathic (white, intensely decomposed feldspar)
- 70-80 Sand and gravel brownish-gray, moderately clayey (15%); 55% medium to very coarse, moderately sorted, angular to subrounded sand; 30% fine (2-10 mm) subrounded gravel; feldspathic (decomposed feldspar)

OWNER:	Process Plants Corporation (Well #1) #2327	
80-90	Sand — tan, with 10% fine gravel and trace of clay; medium to very coarse, moderately sorted; feldspathic (fresh and decomposed feldspar); trace of garnet	
90-100	Sand and gravel — light-gray, slightly clayey (10%); 50% medium to very coarse, moderately sorted, subangular to rounded sand; 40% fine (2-20 mm), moderately sorted, rounded gravel; very felds- pathic; trace of garnet	
100-110	" 75% sand, 15% gravel	
110-120	Sand and gravel — tan; 60% medium to very coarse, moderately sorted, angular to subangular sand; 40% fine (2-20 mm) gravel; feldspathic in sand fraction	
120-130	Sand and gravel — gray; subequal amounts of medium to very coarse subangular sand, and fine (2-10 mm subangular gravel; feldspathic	1)
130-140	" 70% sand, 30% gravel	
140-150	н п	
150-160	Clay — dark-gray, sandy (25%); sand is fine, well-sorted angular, micaceous	d,
160-170	Gravel and sand — tan; 85% fine (2-30 mm) gravel; 15% coarse to very coarse, subangular sand; felds- pathic; abundant coarse garnet	
170-180	" 60% gravel, 40% medium to very coarse sand	
180-194	Sand and gravel — gray; 80% medium to very coarse, moderately sorted, subrounded sand; 20% fine (2-6 mm), well-sorted, rounded gravel; felds- pathic; minor garnet	

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# OWNER: Process Plants Corporation (Well #1)

#2327

### GEOLOGIC SUMMARY

# Rock Unit

## Age

0-10 <sup>1</sup>	Calvert Formation	Middle Miocene
10-40'	Mattaponi Formation	Paleocene
40-194 <sup>1</sup>	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources Robert H. Teifke, Geologist December 9, 1968 OWNER: Process Plants Corporation (Well #1) DRILLER: Mitchell's Well and Pump Company COUNTY: Chesterfield (Hopewell) VDMR: 2327 WWCR: 178 TOTAL DEPTH: 194'

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Sand and gravel — tan, slightly clayey (10%); 60% medium to very coarše, poorly sorted, angular to subrounded sand; 30% fine (2-12 mm) rounded gravel; coarse and very coarse sand grades and gravel fraction contain abundant, intensely decomposed feldspar

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# OWNER: Process Plants Corporation (Well #1)

#2327

## GEOLOGIC SUMMARY

# Rock Unit

### Age

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4

Middle Miocene Paleocene Early Cretaceous

Virginia Division of Mineral Resources Robert H. Teifke, Geologist December 9, 1968