

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

VDMR: 2327  
WWCR: 178

MAILING ADDRESS:  
R 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES  
JAMES L. CALVER, COMMISSIONER  
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:  
McCormick Road  
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: County Chesterfield Approx. 2 <sup>feet</sup> miles west of St. Rt. 10 (direction) of  
and 2 miles north of Hopewell City Limits and \_\_\_\_\_ feet miles \_\_\_\_\_ (direction) of \_\_\_\_\_

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: 9/10/68 DATE COMPLETED: 9/17/68

TYPE OF DRILL RIG USED: cable tool TOTAL DEPTH 194 feet

WATER LEVEL: Stands 44 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method pumped  
Drawdown 86 feet  
Rate 150 gal. per min.  
Duration 19 hrs., 15 <sup>not continually</sup> min.

HOLE SIZE: 10 inches from 0 to 20 feet  
6 inches from 20 to 194 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 174 to 194 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 6 inches from 174 to 194 feet  
with 5' blank above  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color clear Taste good  
Odor none Temp. \_\_\_\_\_ °F

CASE SIZE: 6 inches from 0 to 169'4" feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry xx Other \_\_\_\_\_

GROUTING: Method poured  
Material cement - water Depth 20 feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No x

PUMP: Type Submersible  
Capacity 147 gpm @ 60# pressure gal. per min  
Depth of intake from 150' depth feet

DRILL CUTTINGS SAVED: Yes x No \_\_\_\_\_

(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.)

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# LOG

FURNISHED BY: Mitchell's Well & Pump Co.

DATE: 10/3/68

DEPTH (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	
10	20	red mud and sand	
20	30	red mud and sand	
30	40	mud and sand	
40	50	mud, sand and some gravel	
50	60	sand and gravel	
60	70	sand and gravel	
70	80	sand and gravel	
80	90	sand and gravel	
90	100	sand and gravel	
100	110	sand and gravel	
110	120	sand and gravel	
120	130	sand and gravel	
130	140	sand and gravel	
140	150	sand and gravel	
150	160	mud, little sand	
160	170	sand and gravel	
170	180	sand and large gravels	
180	194	sand and gravel	

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WATER WELL COMPLETION REPORT

W-2327

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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. 23834

WELL LOCATION: County Chesterfield Approx. 2 <sup>west</sup> miles west of St. Rt. 10 (direction) of and 2 miles north of Hopewell City Limits <sup>and</sup> feet miles \_\_\_\_\_ (direction) of \_\_\_\_\_

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

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WATER: Color clear Taste good  
Odor none Temp. \_\_\_\_\_ °F

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\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry XX Other \_\_\_\_\_

GROUTING: Method poured  
Material cement - water Depth 20 feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No X

PUMP: Type Submersible  
Capacity 147 gpm @ 60# pressure gal per min  
Depth of intake from 150' depth feet

DRILL CUTTINGS SAVED: Yes X No \_\_\_\_\_

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REMARKS: HOPEWELL QUADRANGLE

ELEV. : \_\_\_\_\_



OWNER: Process Plants Corporation (Well #1)  
DRILLER: Mitchell's Well and Pump Company  
COUNTY: Chesterfield (Hopewell)

VDMR: 2327  
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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 "

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)

PATUXENT FORMATION (40-194')

40-50 Sand and gravel — tan, slightly clayey (10%); 60% medium  
to very coarse, poorly sorted, angular to sub-  
rounded 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 sub-  
rounded; 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 feldspathic; 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
- 130-140 " 70% sand, 30% gravel
- 140-150 " "
- 150-160 Clay — dark-gray, sandy (25%); sand is fine, well-sorted, angular, micaceous
- 160-170 Gravel and sand — tan; 85% fine (2-30 mm) gravel; 15% coarse to very coarse, subangular sand; feldspathic; 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; feldspathic; minor garnet

OWNER: Process Plants Corporation (Well #1)

#2327

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-10'	Calvert Formation	Middle Miocene
10-40'	Mattaponi Formation	Paleocene
40-194'	Patuxent Formation	Early Cretaceous

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

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DRILLER: Mitchell's Well and Pump Company  
COUNTY: Chesterfield (Hopewell)

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fine, well-sorted sand, with minor weathered glau-  
conite and muscovite, and trace of magnetite; marine (TM)  
source rocks.

20-30 "

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-  
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to very coarse, poorly sorted, angular to sub-  
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