

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

B-3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

WATER WELL COMPLETION REPORT

OFFICE ADDRESS:

McCormick Road
Charlottesville, Virginia

11356

OWNER: Process Plants Corporation Mailing Address: 112-20 4th Ave., College Point, NY

TENANT: Well #2 Mailing Address: P.O. Box 337, Hopewell, VA 23860

DRILLER: Mitchell's Well & Pump Co. Mailing Address: R-1, Box 110, Col. Hgts., Va. 23834

WELL LOCATION: County Chesterfield Approx. 2 ^{feet}/_{miles} west of St. Rt. 10 (direction) of
& 2 miles north of Hopewell City Limits ^{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: Nov. 1968 DATE COMPLETED: Nov. 1968

TYPE OF DRILL RIG USED: cable tool TOTAL DEPTH 225 feet

WATER LEVEL: Stands 45 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pumped

Drawdown 95 feet

Rate 160 gal. per min.

Duration 36 hrs., 30 min.
not continually

WATER ZONES: from 195 to 225 feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color clear Taste good

Odor none Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry X Other _____

WATER ANALYSIS AVAILABLE: Yes _____ No X

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: _____

HOLE SIZE: 10 inches from 0 to 20 feet

6 inches from 20 to 225 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 5 inches from 195 to 225 feet
with 4'4" blank above

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from 0 to 190'8" feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method poured
cement -

Material water Depth 20 feet

PUMP: Type Submersible

Capacity _____ gal. per min

Depth of intake 175 feet

LOG

FURNISHED BY: Mitchell's Well & Pump Co.

DATE: 11/11/68

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	top soil and red mud	
10	20	red mud and sand	
20	30	red sand and gravel	
30	40	ditto	
40	50	ditto	
50	60	blue-gray mud, sand and some gravel	
60	70	white sand	
70	80	sand and gravel	
80	90	ditto	
90	100	sand and gravel, some large gravels	
100	110	ditto	
110	120	sand and gravel	
120	130	ditto	
130	140	ditto	
140	150	ditto	
150	160	gray red mud and sand	
160	170	sand and gravel	
170	180	sand and gravel	
180	195	sand and gravel	
195	197	mud and sand	
197	200	sand	
200	210	white sand and small gravel	
210	225	ditto	

(Use additional forms if necessary)

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
B 3667
Charlottesville, VA 22903

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

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia
11356
W-2328

OWNER: Process Plants Corporation Mailing Address: 112-20 4th Ave., College Point, NY

TENANT: Well #2 Mailing Address: P.O. Box 337, Hopewell, VA 23860

DRILLER: Mitchell's Well & Pump Co. Mailing Address: R-1, Box 110, Col. Hgts., Va. 23834

WELL LOCATION: County Chesterfield Approx. 2 ^{feet}/_{miles} west of St. Rt. 10 (direction) of
& 2 miles north of Hopewell City Limits ^{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: Nov. 1968 DATE COMPLETED: Nov. 1968

TYPE OF DRILL RIG USED: cable tool TOTAL DEPTH 225 feet

WATER LEVEL: Stands 45 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pumped

Drawdown 95 feet

Rate 160 gal. per min.

Duration 36 hrs., 30 min.
not continually

WATER ZONES: from 195 to 225 feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color clear Taste good

Odor none Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry X Other _____

WATER ANALYSIS AVAILABLE: Yes _____ No X

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: HOPEWELL QUADRANGLE

ELEV. :

HOLE SIZE: 10 inches from 0 to 20 feet

6 inches from 20 to 225 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 5 inches from 195 to 225 feet
with 4'4" blank above

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from 0 to 190'8" feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method poured
cement -

Material water Depth 20 feet

PUMP: Type Submersible

Capacity _____ gal per min

Depth of intake 175 feet

INTERVAL SHEET

Page 1 of 1

WWCR: 179
VDMR Well No: 2328

Date rec'd: 11/25/68

Sample Interval: from 0 to 225'

PROP: Process Plants Corporation (Well #2)

Number of samples: 23

COMP: Mitchell's Well & Pump Company

Total Depth: 225'

COUNTY: Chesterfield (Hopewell)

Oil or Gas: Water: XExploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 195	-	-	-
195 - 197	-	-	-
197 - 200	-	-	-
200 - 210	-	-	-
210 - 225	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Process Plants Corporation (Well #2)
DRILLER: Mitchell's Well and Pump Company
COUNTY: Chesterfield (Hopewell)

VDMR:2328
WWCR: 179
TOTAL DEPTH: 225'

GEOLOGIC LOG

Depth in
feet

CALVERT AND MATTAPONI FORMATIONS (0-30')

- 0-10 Clay — yellowish-brown, with 10-15% fine to very fine sand
- 10-20 Clay and sand — 50% reddish-brown clay; 50% fine to medium, well-sorted, angular sand; traces of muscovite, magnetite, and weathered glauconite
- 20-30 Gravel and sand — brown; 50% fine (2-15 mm) rounded, iron-stained gravel; 50% medium to very coarse, moderately sorted, subrounded, slightly feldspathic sand

PATUXENT FORMATION (30-225')

- 30-40 Sand — brown; with 10% fine (2-10 mm) gravel; medium to very coarse, moderately sorted, subangular to subrounded; intensely decomposed feldspar moderately abundant
- 40-50 "
- 50-60 Sand and gravel — 20% matrix of dark-gray micaceous clay; subequal amounts of fine (2-15 mm) rounded gravel, and coarse to very coarse, slightly to moderately feldspathic sand
- 60-70 Sand — tan, 5% granule gravel; medium to very coarse, fairly well-sorted, subangular, moderately feldspathic sand
- 70-80 " with 20% fine (2-10 mm) rounded gravel
- 80-90 Sand and gravel — gray; 50% fine (2-10 mm) gravel; 50% medium to very coarse sand; both fractions are feldspathic; garnet common
- 90-100 "

OWNER: Process Plants Corporation (Well #2)

#2328

- 100-110 Sand and gravel — gray; 50% fine (2-10 mm) gravel; 50% medium to very coarse sand; both fractions are feldspathic; garnet common
- 110-120 Gravel and sand — tan; 70% fine (2-20 mm), rounded gravel; 30% medium to very coarse, angular sand; moderately feldspathic, slightly lithic
- 120-130 Sand — gray; with 10% fine (2-5 mm), rounded gravel; medium to very coarse, fairly well-sorted, angular to subrounded; slightly to moderately feldspathic
- 130-140 Sand — gray, with 5-10% granule gravel; coarse to very coarse, fairly well-sorted, subangular to subrounded; feldspathic; garnet common
- 140-150 "
- 150-160 Clay — dark-gray, silty, slightly sandy (10%)
- 160-170 Sand and gravel — gray; 30% fine (2-8 mm), subrounded gravel; 70% medium to very coarse, moderately sorted, slightly feldspathic sand
- 170-180 Sand — gray, with 5-10% fine (2-6 mm) gravel; medium to very coarse, fairly well-sorted, subangular to subrounded; feldspathic
- 180-195 Gravel — gray, with 15% very coarse sand; fine (2-10 mm), moderately sorted, subrounded, moderately feldspathic
- 195-197 Clay and sand — 50% greenish-gray clay; 50% coarse to very coarse, slightly feldspathic sand; garnet and pyrite common
- 197-200 Sand — gray, with 5% granule gravel; coarse to very coarse, fairly well-sorted, subangular to subrounded; feldspathic
- 200-210 " medium to very coarse, moderately sorted; very feldspathic

OWNER: Process Plants Corporation (Well #2)

#2328

210-225 Sand and gravel — gray; 65% medium to very coarse, moderately sorted, subrounded sand; 35% fine (2-5 mm), well-sorted, subrounded to rounded gravel; feldspathic

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-30'	Calvert and Mattaponi formations	Middle Miocene & Paleocene
30-225'	Patuxent Formation	Early Cretaceous

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