

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-2574  
C-126

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B-3667  
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: J. J. Mitchell, Jr. Mailing Address: R#1, Bx 110, Col. Hgts, Va. 23834

TENANT: Brandy Creek Estates, well #2 Mailing Address: \_\_\_\_\_

DRILLER: Mitchell's Well & Pump Company Mailing Address: R#1, Bx 110, Col. Hgts., Va. 23834

WELL LOCATION: County Hanover, on US Hwy. 360 Approx. 8 ~~x~~<sup>x</sup> miles north of \_\_\_\_\_ (direction) of  
Richmond, Va. and 2 ~~x~~<sup>x</sup> miles north (direction) of Mechanicsville

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

DATE STARTED: March 1969 DATE COMPLETED: March 1969

TYPE OF DRILL RIG USED: rotary and cable tool TOTAL DEPTH 324-1/2 feet

WATER LEVEL: Stands 165 feet below surface OR

has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method pumped  
Drawdown 80' when pumped @128gpm feet  
Rate 101-3/4 average gal. per min.  
Duration 28 (not continuous) hrs., \_\_\_\_\_ min.

HOLE SIZE: 10 inches from 0 to 50 feet

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

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

SCREEN SIZE: 5 inches from 304=1/2 324-1/2 feet  
with blank above

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

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

CASE SIZE: 6-1/4 inches from 0 to 304'3" feet

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

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

WATER ZONES: from \_\_\_\_\_ to \_\_\_\_\_ 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 \_\_\_\_\_ Other subdivision

GROUTING: Method poured

Material cement & water Depth 50' feet

PUMP: Type submersible

Capacity 10HP gal. per min

Depth of intake 252 feet

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

DRILL CUTTINGS SAVED: Yes xx 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: \_\_\_\_\_

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	"	
20	30	"	
30	40	"	
40	50	"	
50	60	"	
60	70	"	
70	80	"	
80	90	"	
90	100	"	
100	110	"	
110	120	red mud and sand	
120	130	black sand	
130	140	"	
140	150	black and red sand	
150	160	black sand, mud and gravels	
160	170	"	
170	180	"	
180	190	"	
190	200	black sand, mud, gravel and shell	
200	210	sand, gravel and shell	
210	220	"	
220	230	mud, sand and gravel	
230	240	sand, gravel and limestone	
240	250	"	
250	260	"	
260	270	"	
270	280	mud, sand and gravel	
280	290	sand and fine gravel	
290	300	sand	
300	310	"	
310	324-1/2	"	
		Samples 1 thru 29 were taken - rotary drilling	
		" 30 " 32 " " - cable tool drilling	

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DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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RHT  
OK

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JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

W-2574

OWNER: J. J. Mitchell, Jr. Mailing Address: R#1, Bx 110, Col. Hgts, Va. 23834

TENANT: Brandy Creek Estates, well #2 Mailing Address: \_\_\_\_\_

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Rate 101-3/4 average  
gal. per min.

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

Duration 28 (not continuous)  
hrs., \_\_\_\_\_ min.

SCREEN SIZE: 5 inches from 304=1/2 324-1/2 feet  
with blank above

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

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

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

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

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

CASE SIZE: 6-1/4 inches from 0 to 304 13" feet

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

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

WATER: Color clear Taste good

Odor none Temp. \_\_\_\_\_ °F

WELL TO SUPPLY: (check one) Home \_\_\_\_\_

GROUTING: Method poured

Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_

Material cement & water depth 50' feet

Industry \_\_\_\_\_ Other subdivision

PUMP: Type submersible

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

Capacity 10HP gal per min

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

Depth of intake 252 feet

(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.)

MARKS: SEVEN PINES QUADRANGLE

ELEV. : 175'

*Edwards*

BRANDY CREEK ESTATES S.D. #1 : W-750

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

INTERVAL SHEET

Page 1 of 1

Date rec'd: 6/27/69

PROPERTY: J. J. Mitchell Jr.  
 Brandy Creek Est. #2  
 COMPANY: Mitchell's Well & Pump Co.  
 COUNTY: Hanover (Mechanicsville)

Well Repository No: W-2574  
 C-126  
 Sample Interval: from 0 to: 324-1/2  
 Number of samples: 32  
 Total Depth: 324-1/2"  
 Oil or Gas: Water:  Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 260	-	-
10 - 20	260 - 270	-	-
20 - 30	270 - 280	-	-
30 - 40	280 - 290	-	-
40 - 50	290 - 300	-	-
50 - 60	300 - 310	-	-
60 - 70	310 - 324-1/2	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-

All intervals have both washed & unwashed samples



OWNER: J. J. Mitchell, Jr.  
(Brandy Creek Estates, well #2)  
DRILLER: Mitchell's Well & Pump Company  
COUNTY: Hanover (Mechanicsville)

W-2574

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TOTAL DEPTH: 324' 6"

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0 - 120'	Columbia Group	Pleistocene
120 - 195'	Nanjew <sup>may</sup> Formation	Middle Eocene
195 - 205'	Mattaponi Formation	Paleocene
205 - 324'6"	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources  
Robert H. Teifke - Geologist  
July 1, 1969

OWNER: J. J. Mitchell, Jr.  
(Brandy Creek Est. #2)  
DRILLER: Mitchell's W&P  
COUNTY: Hanover  
(Mechanicsville)

W#: 2574  
C#: 126  
TOTAL DEPTH: 324.5'  
QUAD: Seven Pines

GEOLOGIC LOG

Depth  
(feet)

- 0-10 Sand — light grayish orange; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 3% glauconite; few opaques.
- 10-20 As above except some opaques; some glauconite.
- 20-30 Sand — dark yellowish orange; moderately stained; slightly clayey; coarse to very coarse grained, some medium grains, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 30-40 As above except medium to very coarse grained; moderately sorted; some opaques.
- 40-50 As above plus some fine grains; few grains of glauconite.
- 50-60 Sand — dark yellowish orange; some moderately stained grains; slightly clayey; medium to coarse grained, some fine grains, 20% granules; subangular to subrounded; poorly sorted; quartz; feldspar; few fragments of ferricrete; few opaques.
- 60-70 As above plus 5% pebbles; few grains of glauconite.
- 70-80 As above.
- 80-90 Sand — dark yellowish orange; slightly clayey; medium to coarse grained, 5% granules, 7% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.
- 90-100 Sand — dark yellowish orange; slightly stained; slightly clayey; medium grained, some fine grains, some coarse grains, some granules, 7% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; few grains of glauconite.
- 100-110 Sand — yellowish orange; some slightly stained grains; medium grained, some fine grains; subangular to subrounded; well sorted; quartz; feldspar; few fragments of ferricrete; few opaques.
- 110-120 As above.

OWNER: J. J. Mitchell, Jr.  
(Brandy Creek Est. #2)

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W#: 2574

Depth  
(feet)

- 120-130 Sand — salt and pepper; medium grained; subangular to rounded; well sorted; 50% glauconite; quartz; few grains of pyrite.
- 130-140 Sand — salt and pepper; medium grained, some coarse grains; subangular to rounded; well sorted; quartz; 40% glauconite.
- 140-150 Sand — salt and pepper; slightly clayey — olive light gray, dark yellowish orange (clasts); fine to medium grained, some coarse grains, few granules; subangular to rounded; moderately sorted; quartz; 25% glauconite; few flakes of muscovite; few shell fragments.
- 150-160 Clay — olive light gray, light gray; moderate fine to medium grained sand; subangular to rounded; well sorted; quartz; glauconite 40% of sand sized fraction; 2% muscovite.
- 160-170 Sand — olive light gray; moderate clay — olive light gray, light gray (clasts); medium grained, some fine grains, some pebbles; subangular to rounded; well sorted; 50% glauconite; quartz; some muscovite; few shell fragments; few echinoid spines; bone fragments.
- 170-180 As above plus some ferricrete fragments.
- 180-190 Sand — olive light gray; moderate clay — olive light gray, light gray (clasts); very fine to medium grained, few pebbles; subangular to rounded; moderately sorted; quartz; 20% glauconite; some ferricrete; some muscovite; few shell fragments.
- 190-200 Clay — olive light gray, dark yellowish orange, light gray; moderate fine to medium grained sand, some pebbles; subangular to rounded; moderately well sorted; quartz; glauconite 20% of sand sized fraction; 2% muscovite; few fragments of ferricrete; few grains of feldspar.
- 200-210 Sand — light olive gray; slightly clayey; fine grained to granular, 7% pebbles; subangular to rounded; poorly sorted; quartz, 10% glauconite; feldspar; some shell fragments; some muscovite.
- 210-220 As above except 15% glauconite.
- 220-230 As above except 7% glauconite.
- 230-240 Sand — light olive gray; slightly clayey; medium to coarse grained, some fine grains, 10% granules, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 5% glauconite; some muscovite.

OWNER: J. J. Mitchell, Jr.  
(Brandy Creek Est. #2)

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W#: 2574

Depth  
(feet)

- 240-250 Sand — off-white; slightly clayey; medium to very coarse grained, 10% granules; subrounded; moderately sorted; quartz; feldspar; 5% glauconite; some muscovite.
- 250-260 Sand — light olive gray; slightly clayey; medium grained to granular, 10% pebbles; subrounded; poorly sorted; quartz; feldspar; 5% glauconite; some muscovite.
- 260-270 Sand — light olive gray; moderate clay (some clasts); medium to coarse grained, some fine grains, 7% granules, 3% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 3% glauconite; some muscovite.
- 270-280 As above.
- 280-290 Sand and granules — dusky yellow; 50% moderately to heavily stained grains; slightly clayey; coarse to very coarse grained, 50% granules; angular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few shell fragments; few flakes of muscovite.
- 290-300 Sand — white; some moderately stained grains; medium to coarse grains; angular to subrounded; moderately well sorted; quartz; feldspar; 3% glauconite; few flakes of muscovite.
- 300-310 As above plus 3% granules; some glauconite.
- 310-324.5 As above except some granules.

Logged by: Michael T. Currie  
January 4, 1979