

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4503  
C#: 184

MAILING ADDRESS:  
Box 3667  
Charlottesville, VA 22903

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

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

OWNER: Jeter Brothers, Inc. Mailing Address: Rt. #4, Box 21, Mechanicsville, VA 23111

TENANT: High Point Farm #3 Mailing Address: \_\_\_\_\_

DRILLER: Mitchell's Well & Pump Co. Mailing Address: 16815 Happy Hill Rd., Colonial Hts., VA 23834

WELL LOCATION: County Hanover (St. Rd. 643) Approx. 1/2 <sup>feet</sup> miles North (direction) of U.S. Hwy. 360 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: June 1975 DATE COMPLETED: October 1975

TYPE OF DRILL RIG USED: cable tool TOTAL DEPTH 365 1/2 feet

WATER LEVEL: Stands 188 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute

YIELD TEST: Method pumped  
Drawdown \_\_\_\_\_ feet  
Rate 124 gal. per min.  
Duration 24 hrs., \_\_\_\_\_ min.

HOLE SIZE: 12 inches from 0 to 50 feet  
6 inches from 50 to 365 1/2 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 5 inches from 345 1/2 to 365 1/2 feet

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

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
CASE SIZE: 6 inches from 0 to 332' 10" feet  
5 inches from 333 to 345 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

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

GROUTING: Method \_\_\_\_\_  
Material \_\_\_\_\_ Depth 50 feet

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

PUMP: Type \_\_\_\_\_  
Capacity \_\_\_\_\_ gal. per min.  
Depth of intake \_\_\_\_\_ 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: J. J. Mitchell, Jr.

DATE: October 1975

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	reddish soil	
10	20	orangeish dirt	
20	30	orangeish dirt & gravel	
30	40	ditto	
40	50	tan dirt	
50	110	gray dirt	
110	130	black dirt	
130	140	gray dirt	
140	150	gray dirt-shell fragments	
150	160	light gray dirt	
160	170	tan dirt	
170	180	gray dirt	
180	210	dark gray dirt & shells	
210	230	light gray dirt	
230	240	brownish dirt	
240	260	gray dirt	
260	280	tan dirt	
280	290	tan dirt-some gravel	
290	310	gray & tan dirt	
310	365' 6"	tan sand & gravel	

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

INTERVAL SHEET

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Well Repository No.: W#: 4503  
 C#: 184

Date rec'd: 11/18/75 Date Processed: 11/16/76

Sample Interval: from 0 to: 365½'

PROPERTY: Jeter Brothers, Inc. (High Point #3)

Number of samples: 36

COMPANY: Mitchell's Well and Pump Co.

Total Depth: 365½'

COUNTY: Hanover

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To	From-To
0 - 10	50 - 65.5	-	-	-
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 - 190	-	-	-	-
190 - 200	-	-	-	-
200 - 210	-	-	-	-
210 - 220	-	-	-	-
220 - 230	-	-	-	-
230 - 240	-	-	-	-
240 - 250	-	-	-	-
250 - 260	-	-	-	-
260 - 270	-	-	-	-
270 - 280	-	-	-	-
280 - 290	-	-	-	-
290 - 300	-	-	-	-
300 - 310	-	-	-	-
310 - 320	-	-	-	-
320 - 330	-	-	-	-
330 - 340	-	-	-	-
340 - 350	-	-	-	-

Washed and unwashed samples

OWNER: Jeter Brothers, Inc.  
(High Point Farm #3)  
DRILLER: Mitchell's Well and Pump Co.  
COUNTY: Hanover

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TOTAL DEPTH: 365.5'  
QUAD: Seven Pines

GEOLOGIC LOG

Depth  
(feet)

- 0 - 10 Sand - moderate yellowish brown; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques; few grains of glauconite.
- 10 - 20 Sand - dark yellowish orange; moderately stained, medium to coarse grained, some fine grains, few granules; subangular to subrounded, moderately sorted; quartz; feldspar; some opaques.
- 20 - 30 Sand - dark yellowish orange; moderately stained; slightly clayey; coarse grained to granular, some medium grains, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 30 - 40 As above except coarse to very coarse grained, some medium grains, 3% granules.
- 40 - 50 Sand - dusky yellow; moderate clay; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; muscovite.
- 50 - 60 Clay - light olive gray; moderate sand; fine grained; subangular to subrounded; well sorted; quartz, some muscovite; few flakes of boitite.
- 60 - 70 As above.
- 70 - 80 As above.
- 80 - 90 As above.
- 90 - 100 As above.
- 100 - 110 Clay - light olive gray; some glauconite; some quartz; few flakes of muscovite.
- 110 - 120 Sand - olive light gray; abundant clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 40% glauconite; 7% black phosphatic material; some shell fragments; muscovite.
- 120 - 130 Clay - light gray, olive light gray; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; glauconite 20% of sand fraction; some muscovite; few shell fragments.
- 130 - 140 As above except olive light gray, light gray; 10% black phosphatic material.

Depth  
(feet)

- 140 - 150 Clay and sand - olive light gray, light gray; abundant clay; moderate sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; glauconite 25% of sand sized fraction; 3% shell fragments; 2% muscovite; few black phosphatic fragments.
- 150 - 160 Clay - light gray; some quartz; some glauconite; few shell fragments; muscovite.
- 160 - 170 Clay - moderate orange pink, light gray; some quartz; some glauconite; few flakes of muscovite; shark's tooth.
- 170 - 180 Clay - light gray, moderate orange pink; some quartz, some glauconite; few flakes of muscovite; few black phosphatic fragments.
- 180 - 190 Sand - olive light gray; abundant clay; fine grained; subangular to subrounded; well sorted; quartz; 5% shell fragments; 5% glauconite; some muscovite.
- 190 - 200 Sand and clay - olive light gray; moderate clay - olive light gray, white; abundant sand; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; 5% glauconite; 3% shell fragments, few flakes of muscovite.
- 200 - 210 As above.
- 210 - 220 Sand - white; slightly clayey; medium grained to granular, few pebbles; subangular to subrounded; poorly sorted, quartz; feldspar; few grains of glauconite.
- 220 - 230 As above except coarse grained to granular, some medium grains; moderately sorted.
- 230 - 240 Sand - light brown; moderate clay - light brown, grayish orange; coarse grained to gravel; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 240 - 250 Sand - grayish yellow; moderate clay; coarse grained to granular, few pebbles; subangular to subrounded; moderately sorted, quartz; feldspar; few flakes of muscovite.
- 250 - 260 As above except slightly clayey; no pebbles.
- 260 - 270 Sand - dusky yellow; moderate clay; coarse grained to gravel; subangular to subrounded; poorly sorted; quartz; feldspar; some muscovite.

Depth  
(feet)

- 270 - 280 As above except sand and gravel; 35% pebbles.
- 280 - 290 As above
- 290 - 300 Clay and sand - medium dark gray; abundant clay - medium dark gray, dusky yellow; moderate sand; coarse grained to gravel; subangular to subrounded; poorly sorted; quartz; feldspar; few flakes of muscovite.
- 300 - 310 As above except medium gray, dusky yellow.
- 310 - 320 Sand and granules - white; very coarse grained, 50% granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar.
- 320 - 330 As above except sand; 20% granules; some coarse grains.
- 330 - 340 As above.
- 340 - 350 Sand and granules - white; very coarse grained, 60% granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar.
- 350 - 360 Sand - white; coarse grained to granular, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar.
- 360 - 365.5 No sample.

Logged by: Michael T. Currie  
May 31, 1979

OWNER: Jeter Brothers, Inc.  
(High Point Farm #3)

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GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0 - 50	50	Columbia Group	Pleistocene
50 - 100	60	Calvert Formation	Miocene
110 - 150	40	Nanjemoy Formation	Eocene
150 - 180	30	Marlboro Clay	Eocene
180 - 210	30	Mattaponi Formation	Eocene-Cretaceous
210 - 360	150	Patuxent Formation	Cretaceous
360 - 365.5	5.5	No Sample	

VIRGINIA DIVISION OF MINERAL RESOURCES  
David A. Hubbard, Jr., Geologist  
July 6, 1979