

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:  
B 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Spencer Transfer, Inc. Mailing Address: 16516 Happy Hill Rd. Colonial Heights VA. 23834

TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

DRILLER: J.J. Mitchell Mailing Address: 16815 Happy Hill Rd. Colonial Heights VA. 23834

WELL LOCATION: County Chesterfield Approx. \_\_\_\_\_ feet miles \_\_\_\_\_ (direction) of \_\_\_\_\_ 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: 12/75 DATE COMPLETED: 12/75

TYPE OF DRILL RIG USED: \_\_\_\_\_ TOTAL DEPTH 240 feet

WATER LEVEL: Stands 16 feet below surface OR \_\_\_\_\_ has NATURAL flow of \_\_\_\_\_ gallons per minute

YIELD TEST: Method Pumped  
Drawdown 65 feet pump pipe took no air  
Rate 20 gal. per min.

HOLE SIZE: 12 inches from 0 to 50 feet  
6 inches from 50 to 113 feet  
4 3/4 inches from 113 to 240 feet

Duration 3 hrs. 30 min.  
WATER ZONES: from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
from \_\_\_\_\_ feet to \_\_\_\_\_ feet

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

CASE SIZE: 6 inches from 0 to 79 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

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

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No XX  
DRILL CUTTINGS SAVED: Yes XX No \_\_\_\_\_

PUMP: Type \_\_\_\_\_  
Capacity \_\_\_\_\_ gal per min  
Depth of intake 65 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.)

REMARKS: \*Changed to 4 3/4" because had hard time cutting mud off. Thought might be possibility of crack in rock. With this size could reline with 4" casing. After quite a few times of driving casing in it was sealed in rock.

LOG

FURNISHED BY: J.J. Mitchell

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	Gray dirt	
	10	Grayish tan dirt	
	20	Ditto	
	30	gray mud	
	40	Gray dirt	
	50	Gray dirt	
	60	Light tan dirt	
	70	Ditto	
	80	Tan rock	
	90	Ditto	
	100	"	
	110	"	
	120	Gray rock	
	130	Gray and tan rock	
	140	Ditto	
150	200	Gray rock	
	210	Dark gray rock	
	220	Gray rock	
	230	Ditto	
	240	"	

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

INTERVAL SHEET

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Well Repository No: W#: 4540  
 C#: 214

Date rec'd: 3/12/76 Date Processed: 12/28/76

Sample Interval: from: to:  
 0 240

PROPERTY: Spencer Transfer, Inc.

Number of samples: 24

COMPANY: Mitchell Well & Pump

Total Depth: 240

COUNTY: Chesterfield  
 (Col. Heights)

Oil or Gas: Water: Exploratory:

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 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 200	-	-	-
200 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
-	-	-	-

Unwashed samples only

OWNER: Spencer Transfer, Inc.  
DRILLER: Mitchell W & P  
COUNTY: Chesterfield  
(Col. Heights)

W#: 4540  
C#: 214  
TOTAL DEPTH: 240'  
QUAD: Chester

GEOLOGIC LOG

Depth  
(feet)

- 0 - 10 Sand -- pale yellowish orange; abundant clay - pale yellowish orange, white; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite; few opaques.
- 10 - 20 Clay -- grayish orange, dark yellowish orange, olive light gray; abundant sand; coarse grained to granular; subrounded; moderately sorted; quartz; feldspar; some muscovite.
- 20 - 30 As above except light olive gray; no muscovite.
- 30 - 40 Sand -- very pale orange; moderate clay; medium grained to granular, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few flakes of muscovite.
- 40 - 50 Granite (heavily weathered) -- yellowish gray; moderate clay; quartz; feldspar; few flakes of biotite; muscovite.
- 50 - 60 As above except some biotite; some muscovite.
- 60 - 70 Granite (weathered) -- yellowish gray; slightly clayey; quartz; feldspar; few flakes of biotite; muscovite.
- 70 - 80 Granite (weathered) -- dusky yellow; moderate clay; quartz; feldspar; 2% biotite; some muscovite.
- 80 - 90 Granite (weathered) -- pale yellowish orange; moderate clay; quartz; feldspar; 3% biotite; some muscovite.
- 90 - 100 As above except yellowish gray.
- 100 - 110 Sand -- yellowish gray; coarse to very coarse grained; subangular to subrounded; well sorted; quartz; feldspar; few grains of garnet; glauconite. (Sample appears to be out of place).
- 110 - 120 Granite -- salt and pepper; quartz; feldspar; 5% biotite; some muscovite.
- 120 - 130 Granite -- white, dark yellowish orange; some fragments heavily iron stained; quartz; feldspar; 3% biotite; 2% muscovite.

Depth  
(feet)

130 - 140 Granite -- salt and pepper; quartz; feldspar; 5% biotite; some muscovite.

140 - 150 Granite -- white; quartz; feldspar; 10% muscovite; some biotite.

150 - 160 Granite -- white, quartz; feldspar; 3% biotite; some muscovite.

160 - 170 Granite -- white; quartz; feldspar; 10% muscovite; 3% biotite.

170 - 180 As above except 20% muscovite; some biotite.

180 - 190 Granite -- white; quartz; feldspar; 3% biotite; 2% muscovite.

190 - 200 As above except 5% biotite; some muscovite.

200 - 210 Granite -- salt and pepper; quartz; feldspar; 10% biotite; 2% muscovite.

210 - 220 Granite -- white; quartz; feldspar; 5% biotite; some muscovite.

220 - 230 Granite -- salt and pepper; quartz; feldspar; 20% muscovite; 15% biotite.

230 - 240 Granite -- white; quartz; feldspar; 3% muscovite; 2% biotite; few grains of pyrite.

NOTE: All samples are unwashed.

Logged by: Michael T. Currie

OWNER: Spencer Transfer, Inc.

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W#: 4540

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0 - 40	40	Columbia Group	Pleistocene
40 - 240	200	Petersburg Granite	Paleozoic (?)

VIRGINIA DIVISION OF MINERAL RESOURCES  
David A. Hubbard, Jr., Geologist  
December 26, 1978