

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667  
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Mr. E. M. Blake Mailing Address: Rt. 4, Box 396 Mechanicsville, VA

TENANT: Dianne Ridge Mailing Address: \_\_\_\_\_

DRILLER: Mitchell's Well & Pump Co., Inc. Mailing Address: Rt. 1, Box 110 Colonial Heights, VA.

WELL LOCATION: County Hanover County Approx. 7 <sup>feet</sup>/<sub>miles</sub> East (direction) of Mechanicsville, turn left on St. Rd. 606 <sup>feet</sup>/<sub>miles</sub> (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: March 1973 DATE COMPLETED: April 1973

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 439 feet

WATER LEVEL: Stands 156 feet below surface OR has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Pumped  
Drawdown 220 feet  
Rate 69 gal. per min.  
Duration 24 hrs., \_\_\_\_\_ min.

HOLE SIZE: 12 inches from 0 to 50 feet  
6 inches from 50 to 439 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 419 to 439 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 5 inches from 419 to 439 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color Clear Taste good  
Odor None Temp. \_\_\_\_\_ °F

CASE SIZE: 6 inches from 0 to 396'5" feet  
5 inches from 396 to 419 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

GROUTING: Method pumped under pressure  
Material Cement & water Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No XX  
44

PUMP: Type SC-500B6 5 HP 230 volts  
Single phase submersible  
Capacity \_\_\_\_\_ gal per min  
Depth of intake \_\_\_\_\_ feet

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

Mitchell's Well & Pump Co., Inc.

April 23, 1973

FURNISHED BY: \_\_\_\_\_

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	Tan-orange dirt	
10	20	Ditto	
20	30	"	
30	40	"	
40	50	Yellow dirt-some grit	
50	60	Gray dirt	
60	70	Gray dirt & Shell fragments	
70	80	Gray dirt	
80	90	Ditto	
90	100	"	
100	110	"	
110	120	"	
120	130	"	
130	140	"	
140	150	"	
150	160	Dark gray dirt	
160	170	Gray dirt	
170	180	Dark gray dirt	
180	190	Gray dirt	
190	200	Ditto	
200	210	Gray & tan dirt	
210	220	Ditto	
220	230	"	
230	240	Dark gray dirt	
240	250	Dark gray dirt with small rocks	
250	260	Small rocks & gravel	
260	270	Gravel	
270	280	Ditto	
280	290	"	
290	300	"	
300	310	"	
310	320	"	
320	330	"	
330	340	"	
340	350	"	
350	360	"	
360	370	Gray dirt with gravel	
370	380	Gray dirt	
380	390	Ditto	
390	400	Gray sand & gravel	
400	410	Ditto	
410	420	"	
420	430	"	
430	439	"	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No: W#: 3848

Date rec'd: 5/21/73 Date Processed: 3/11/74

C#: 161  
 Sample Interval: from: to:  
 0 439

PROPERTY: E. Blake  
 (Dianne Ridge)  
 COMPANY: Mitchell's Well & Pump Co.

Number of samples: 44

COUNTY: Hanover  
 (Atlee)

Total Depth: 439'

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 60	-	-
10 - 20	260 - 70	-	-
20 - 30	270 - 80	-	-
30 - 40	280 - 90	-	-
40 - 50	290 - 300	-	-
50 - 60	300 - 10	-	-
60 - 70	310 - 20	-	-
70 - 80	320 - 30	-	-
80 - 90	330 - 40	-	-
90 - 100	340 - 50	-	-
100 - 10	350 - 60	-	-
110 - 20	360 - 70	-	-
120 - 30	370 - 80	-	-
130 - 40	380 - 90	-	-
140 - 50	390 - 400	-	-
150 - 60	400 - 10	-	-
160 - 70	410 - 20	-	-
170 - 80	420 - 30	-	-
180 - 90	430 - 39	-	-
190 - 200	-	-	-
200 - 10	-	-	-
210 - 20	-	-	-
220 - 30	-	-	-
230 - 40	-	-	-
240 - 50	-	-	-

Unwashed only

OWNER: E. Blake  
(Dianne Ridge)  
DRILLER: Mitchell's W & P Co.  
COUNTY: Hanover  
(Atlee)

W#: 3848  
C#: 161  
TOTAL DEPTH: 439'  
QUAD: Yellow Tavern

GEOLOGIC LOG

Depth  
(feet)

- 0 - 10 Sand -- dark yellowish orange; moderate clay; fine to medium grained, some coarse grains, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 10 - 20 As above except slightly clayey; no granules.
- 20 - 30 Sand -- dark yellowish orange; slightly clayey; coarse to very coarse grained, some medium grains, subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 30 - 40 As above plus few grains of glauconite.
- 40 - 50 Sand -- grayish orange; moderate clay - grayish orange, white; fine to medium grained, some granules, few pebbles, subangular to subrounded; moderately well sorted; quartz; feldspar; few flakes of muscovite.
- 50 - 60 Clay -- light olive gray; abundant sand; very coarse grained to granular, some pebbles; subangular to subrounded; moderately sorted; quartz; few flakes of muscovite; few black phosphatic fragments.
- 60 - 70 As above except moderate sand; few shell fragments.
- 70 - 80 Clay -- light olive gray; slightly sandy; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; few flakes of muscovite, few shell fragments.
- 80 - 90 Clay -- light olive gray; moderate sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; few flakes of muscovite; few black phosphatic fragments.
- 90 - 100 As above.
- 100 - 110 As above plus few granules; few grains of glauconite.
- 110 - 120 Clay -- light olive gray; slightly sandy; fine to medium grained, some coarse grains, few granules; subangular to subrounded; moderately sorted; quartz; few flakes of muscovite; few shell fragments.
- 120 - 130 As above plus some olive light gray clay; no shell fragments.
- 130 - 140 As above plus few black phosphatic fragments.
- 140 - 150 As above.

Depth  
(feet)

- 150 - 160 Clay -- olive light gray; abundant sand; fine to medium grained; sub-angular to rounded; moderately well sorted; quartz; 15% glauconite; some black phosphatic material; few flakes of muscovite.
- 160 - 170 Clay -- light olive gray; some quartz sand; few grains of glauconite; few flakes of muscovite.
- 170 - 180 Sand -- olive light gray; abundant clay; fine grained; subangular to rounded; well sorted; quartz; 10% glauconite; 2% muscovite; some black phosphatic material; some shell fragments.
- 180 - 190 Clay -- light olive gray; some quartz sand; few grains of glauconite; few black phosphatic fragments; muscovite.
- 190 - 200 As above.
- 200 - 210 Clay -- moderate orange pink, very light gray, olive light gray; moderate sand; medium grained; subrounded to rounded; well sorted; glauconite, 75% of sand sized fraction; quartz; few flakes of muscovite; few shell fragments.
- 210 - 220 As above plus few limestone fragments.
- 220 - 230 Clay -- light olive gray, moderate orange pink, very light gray; slightly sandy; medium grained; rounded; well sorted; glauconite, 85% of sand sized fraction; quartz; few flakes of muscovite.
- 230 - 240 Sand -- olive gray; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 20% glauconite; 7% shell fragments; few flakes of muscovite.
- 240 - 250 Sand and gravel -- olive gray; moderate clay; fine to medium grained, 10% granules, 50% pebbles; subrounded; poorly sorted; quartz; 10% glauconite; 3% shell fragments; few flakes of muscovite; few black phosphatic fragments.
- 250 - 260 Sand and gravel -- off white; very coarse grained to granular, 40% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar.
- 260 - 270 Sand -- off white; coarse grained to gravel (20%); subangular to subrounded; moderately sorted; quartz; feldspar.
- 270 - 280 Sand -- off white; coarse to very coarse grained, some medium grains, 15% granules; subangular to subrounded; moderately sorted; quartz; feldspar.
- 280 - 290 Sand and gravel -- off white; coarse grained to granular, 35% pebbles; subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 290 - 300 Sand -- yellowish gray; coarse grained to gravel (25%); subrounded; moderately sorted; quartz; feldspar.

Depth  
(feet)

- 300 - 310 Sand and granules -- off white, moderate orange pink; coarse to very coarse grained, 40% granules, 15% pebbles; subangular to subrounded; moderately sorted; quartz (some pink); feldspar (inc. pink microcline); few flakes of muscovite.
- 310 - 320 Sand -- off white; coarse grained to granular, 7% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar.
- 320 - 330 As above except slightly clayey; 10% pebbles.
- 330 - 340 Sand -- off white; coarse to very coarse grained, some medium grains, 10% granules, 10% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar.
- 340 - 350 Sand -- white; coarse to very coarse grained, some medium grains, some granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar.
- 350 - 360 As above plus few grains of hornblende.
- 360 - 370 Clay and sand -- yellowish gray; abundant clay; moderate sand; coarse grained to granular, 10% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 370 - 380 Clay -- yellowish gray, light gray; moderate sand; medium grained; subangular to subrounded; well sorted; quartz; feldspar; some muscovite; few flakes of biotite.
- 380 - 390 Clay -- medium gray, yellowish gray; moderate clay; coarse grained to granular; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 390 - 400 Sand -- white; coarse to very coarse grained, some granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar.
- 400 - 410 Sand -- white; coarse grained to granular (30%), some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar.
- 410 - 420 Sand -- white; medium to very coarse grained, 3% granules; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques.
- 420 - 430 As above.
- 430 - 439 As above.

NOTE: All samples are unwashed.

Logged by: Michael T. Currie  
Feb. 13, 1979