

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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: USAR Reserve Center Mailing Address: \_\_\_\_\_

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

DRILLER: R. L. Magette Co. Mailing Address: \_\_\_\_\_

WELL LOCATION: County Norfolk Approx.          <sup>feet</sup>/<sub>miles</sub> (direction) of  
Churchland and          <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: 6/26/72 DATE COMPLETED: 6/30/72

TYPE OF DRILL RIG USED: \_\_\_\_\_ TOTAL DEPTH 602 feet

WATER LEVEL: Stands 60 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method \_\_\_\_\_  
Drawdown 10 feet  
Rate 32 gal. per min.  
Duration \_\_\_\_\_ hrs., \_\_\_\_\_ min.

HOLE SIZE: 6-7/8 inches from 0 to 602 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

SCREEN SIZE: 4 inches from 592 to 602 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

CASE SIZE: 4 inches from 0 to 592 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

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

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

PUMP: Type Submersible - Jacuzzi  
Capacity 32 gal per min  
Depth of intake 105 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: R. L. Magette 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	White and yellow sand	
10	20	Blue clay	
20	40	Brown sand and shell	
40	110	Coarse shell and fine blue gray sand	
110	140	Coarse shell and blue clay w/black sand	
140	320	Soft blue clay and coarse shell	
320	370	Blue clay and coarse shell	
370	540	Soft blue clay w/coarse shell and black sand	
540	580	Multi colored clay w/pebble and some medium sand	
580	600	Coarse gray sand	

(Use additional forms if necessary)

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

INTERVAL SHEET

Page 1 of 1 Well Repository No.: C-172 W-3610  
 Date rec'd: 10/2/72 Date Processed: 10/17/72 Sample Interval: from 0 to: 600  
 PROPERTY: U. S. Army Reserve Center Number of samples: 60  
 COMPANY: R. L. Magette Co. Total Depth: 600'  
 COUNTY: Norfolk (Churchland) Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
- 10	- 310	-	-	-
- 20	- 320	-	-	-
- 30	- 330	-	-	-
- 40	- 340	-	-	-
- 50	- 350	-	-	-
- 60	- 360	-	-	-
- 70	- 370	-	-	-
- 80	- 380	-	-	-
- 90	- 390	-	-	-
- 100	- 400	-	-	-
- 110	- 410	-	-	-
- 120	- 420	-	-	-
- 130	- 430	-	-	-
- 140	- 440	-	-	-
- 150	- 450	-	-	-
- 160	- 460	-	-	-
- 170	- 470	-	-	-
- 180	- 480	-	-	-
- 190	- 490	-	-	-
- 200	- 500	-	-	-
- 210	- 510	-	-	-
- 220	- 520	-	-	-
- 230	- 530	-	-	-
- 240	- 540	-	-	-
- 250	- 550	-	-	-
-260	-560	-	-	-
-270	-570	-	-	-
-280	-580	-	-	-
-290	-590	-	-	-
-300	-600	-	-	-

All intervals have both washed and unwashed samples.

OWNER: US Army Reserve Centre  
DRILLER: Magette  
COUNTY: Norfolk (Grt. Bridge)

W # 3610  
C # 172  
TOTAL DEPTH - 602'  
QUAD - Bowers Hill  
ELEV - 25'

DEPTH  
(FEET)

WELL LOG

0-20	Sand	- grayish orange (10YR 7/4); medium to granule, subangular, moderately well sorted; 5% shell fragments.
20-30	Sand	- light olive gray; abundant clay; fine to coarse, subangular, moderately sorted.
30-50	Sand	- pale yellowish brown (10YR 6/2); fine to very coarse, subangular, moderately sorted; 5% phosphate fragments; 3% shell fragments at 40-50'; rose quartz; feldspar.
50-60	Sand	- light and dark gray; 50% fine shell fragments - <u>Mulinia</u> , <u>Opalia</u> , <u>Turritella</u> , <u>Crepidula</u> , <u>Policines</u> , <u>Dentalium</u> ; sparse clay; fine to very coarse, subangular, moderately sorted; echinoid plates; 5% phosphate fragments; forams - <u>Quinqueloculina</u> .
60-90	Sand	- light and dark gray; 60% shell fragments - bryozoa, <u>Yoldia</u> , snail, <u>Phacoides</u> , sponge; sparse clay; fine to very coarse, subangular, moderately sorted; echinoid plates and spines; forams - <u>Discorbis</u> , <u>Eponides</u> , <u>Nonion</u> ; ostracod.
90-100	Sand, Shelly	- light and dark gray; 50% shell fragments; sparse clay; fine to granule, subangular, poor sorting; echinoid spines and plates; 5% glauconite; forams; ostracods.
100-110	Sand	- light olive gray; very fine to very coarse, subangular, moderately sorted; echinoid spines and plates; 5% glauconite; 40% shell fragments; forams - <u>Discorbis</u> , <u>Nonion</u> .
110-120	Sand, Glauconitic	- light and dark gray; 50% glauconite; very sparse clay; very fine to coarse, subangular, moderately sorted; 30% shell fragments; forams.

DEPTH  
(FEET)

## WELL LOG

120-150	Sand, Shelly	- light and dark gray; 70% shell fragments - <u>Venicardia</u> ; very sparse to sparse clay; very fine to very coarse, subangular, moderately sorted; 23% glauconite; madreporite; forams.
150-160	Sand	- light and dark gray; moderate clay; very fine to very coarse, subangular, moderately sorted; 25% glauconite; 10% shell fragments.
160-190	Sand	- light olive gray; moderate to abundant clay; fine to coarse, subangular, moderate to moderately well sorted; 5-15% glauconite; 1-10% shell fragments - oyster, <u>Turritella</u> .
190-210	Sand	- light and dark gray; sparse to moderate clay; fine to medium, subangular, moderate sorting; 20-25% glauconite; 15-20% fine shell fragments - <u>Turritella</u> .
210-220	Sand	- light olive gray; sparse clay; fine to coarse, subangular, moderately sorted; 20% glauconite; 10% shell fragments.
220-250	Sand	- light olive gray; sparse to moderate clay; fine to very coarse, subangular, moderate sorting; 8-10% glauconite; 5-10% shell fragments.
250-310	Sand	- light olive gray; abundant clay; very fine to coarse, subangular, moderately well sorted; 3-5% glauconite; 1-5% shell fragments - <u>Dentalium</u> ; forams.
310-380	Sand	- light olive gray; moderate to abundant clay; very fine to coarse, subangular, moderately well sorted; few to 5% each glauconite and shell fragments; forams - <u>Nonion</u> ; mica.
380-530	Sand, Glauconitic	- light and dark green; 50-60% glauconite; moderate to abundant clay; fine to very coarse, subangular and subrounded, poor sorting; few - 10% shell fragments; iron oxide; shark tooth; forams - <u>Robulus</u> , <u>Nonion</u> ; mica at 450-460'.

DEPTH  
(FEET)

WELL LOG

- |         |            |   |
|---------|------------|---|
| 530-540 | Sand       | - light olive gray; abundant clay; fine to very coarse; subangular to subrounded, poor sorting; 40% glauconite; 1% shell fragments; shark tooth; mica.                          |
| 540-550 | Sand       | - light and dark gray; 50% glauconite; sparse clay; fine to pebble, subangular to subrounded, poor sorting; feldspar.   |
| 550-560 | No sample. |   |
| 560-570 | Sand       | - light and dark gray; sparse clay; fine to pebble, subangular to subrounded, poor sorting; 40% glauconite; feldspar; shark tooth; rock fragments; mica.                        |
| 570-590 | Sand       | - light olive gray (5Y 6/1); sparse clay and sandstone rock fragments at 570-580'; fine to coarse, subangular and angular, moderately sorted; 3-20% glauconite; feldspar; mica. |
| 590-602 | Sand       | - light olive gray (5Y 6/1); fine to granule, subangular and subrounded, moderately sorted; rose quartz; feldspar.  |

Logged by:

J. K. Polzin  
Feb., 1981



N-3610

# R. L. MAGETTE COMPANY

Water Supply Contractor — Smithfield, Virginia

LOG OF WELL For USAR RESERVE CENTER

Located at CHURCHLAND in \_\_\_\_\_ County, State VIRGINIA

Date Drilling Started June 26, 1972 Date Started \_\_\_\_\_ 19\_\_\_\_

Finished Drilling \_\_\_\_\_, 19\_\_\_\_ Finished June 30 1972

FORMATION AND DEPTH OF WELL				DIMENSIONS OF CASING AND SCREEN							
TOTAL DEPTH OF ALL STRATA		DEPTH OF EACH STRATUM		FORMATION FOUND AT EACH STRATUM	TOTAL LENGTH OF ALL SCREENS AND CASINGS		LENGTH OF EACH SEC. OF SCREEN OR CASING		SPECIFY SCREEN OR CASING	SIZE OF SCREEN OR CASING	GAUGE OF SCREEN
FT.	IN.	FT.	IN.		FT.	IN.	FT.	IN.			
<u>DRILLER'S LOG</u>											
0	-	10		White and yellow sand							
10	-	20		Blue Clay							
20	-	40		Brown sand and shell							
40	-	110		Course shell and fine blue gray sand							
110	-	140		Course shell and blue clay w/black sand							
140	-	320		Soft blue clay and course shell							
320	-	370		Blue clay and course shell							
370	-	540		Soft blue clay w.course shell and black sand							
540	-	580		Multa colored clay w/pebble and some medium sand							
580	-	600		Course gray sand							

W-3610





4" casing

602'

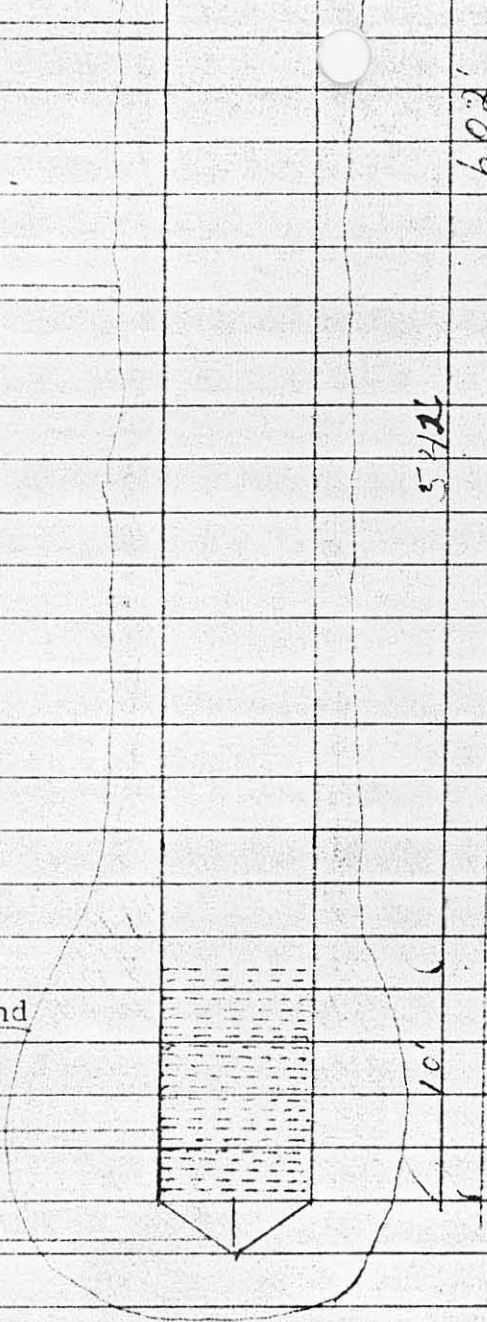
Backfill

542'

Water producing Sand

Screen

Plug



WELL DATA:

Preliminary Test

Date Tested 7-3 1972 Static Level 60

Production 100 GPM Pumping Level

Permanent Test

Date Tested 7-10 1972 Static Level 60

Production 32' GPM Active St. Level

Draw Down 10 Pumping Level 70

Remarks:

PUMP DATA:

Shop No. 5 S 4 x 47 Type Lumber

Type Head Size Suction

Depth Setting 105 (BP to MB)

Size Column 2" Length Suction

Type Bowl Length Air Line

No. Stages 17 Discharge-

Cap'y. and Head 32 gpm Pressure 50

MOTOR DATA:

Horse Power 5 Voltage 230

RPM 1750 Phase 1

Type Sub. Cycles 60

Make Jacuzzi Frame No.