

Sheet No. 1

PROP: FORT MONROE
WELL NO. 317 YEAR: 1869
COUNTY: ELIZABETH CITY
VDMR WELL NO: 160
FROM: TO:

VDMR WELL NO. 0160

Sample Interval 390-901

Total Depth 907

Oil Gas Water Exploratory

Cuttings Core Other

SEE Water Supply Paper 1361 p. 225
and Bulletin #5 p. 302

From-To
UNWASHED
SAMPLES

From-To
WASHED &
FLOATED
SAMPLES

From-To

From-To

From-To

390-

570-577

430-

801-815

504-518

558-

583-

590-

604-628

669-670

698-

782-815

835-

863-877

870-

877

885-

890-

900-

901-

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COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT
 DIVISION OF MINERAL RESOURCES

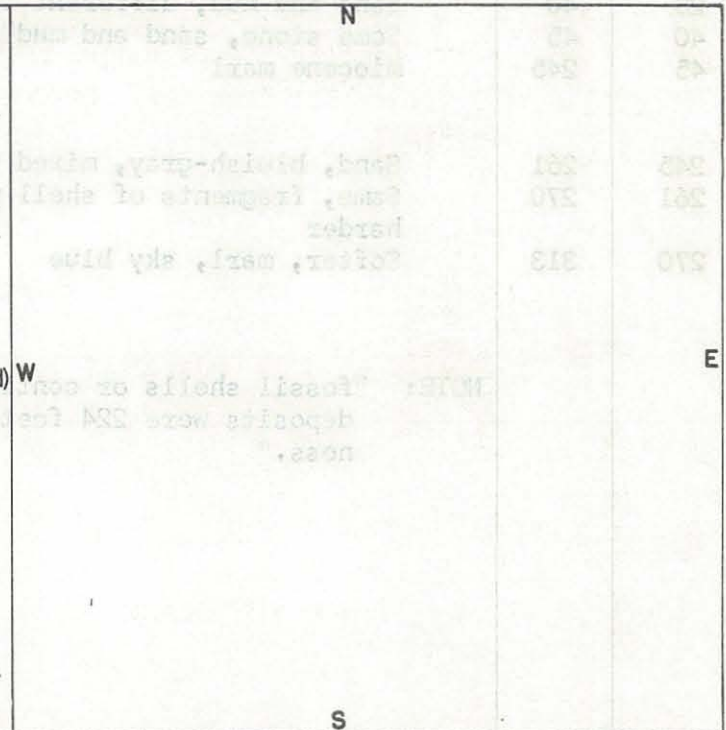
Box 3667, University Station, Charlottesville, Virginia

WWCR-#3
 VDMR-#160

WATER WELL COMPLETION REPORT

OWNER: U. S. Government Mailing Address: Fort Monroe
 TENANT: _____ Mailing Address: _____
 DRILLER: _____ Mailing Address: _____
 WELL LOCATION: County Elizabeth City Approx. _____ ft. miles
 (direction) of Fort Monroe Norfolk-Newsport Area and _____ ft. miles of _____

WATER CONDITIONS
 DEPTH 3' above tide-saline
 STATIC WATER LEVEL _____
 WATER ZONES (fissures or formations supplying water)
 (from) _____ (to) _____ (from) _____ (to) _____
 (gray sand) _____ ft. _____ ft.
QUANTITY OF WATER
 WELL PUMPED (or bailed) at _____ Gal. per Min. with _____ feet DRAWDOWN after _____ HOURS PUMPING.
 FLOW (natural) _____ G.P.M. HEAD _____ ft. (above ground)
 REMARKS: _____
QUALITY OF WATER
 COLOR _____ TASTE _____
 ODOR _____ OTHER _____
 ANALYSIS: AVAILABLE— Yes No ATTACHED Yes No
 TEMPERATURE _____
 "Very saline" WATER (from) _____ ft. (to) _____ ft.
 (salt, brackish, iron, sulfur, acid, other)
 USE OF WATER: Domestic Town Industry Farm Public



CONSTRUCTION
 RIG TYPE (or method) _____
 DATE: Started 1845 & 1864; Completed 1869 (abandoned)
 TOTAL DEPTH 907 ft.
 BEDROCK at _____ ft.
GROUTING INFORMATION
 METHOD USED _____
 GROUTING MATERIAL _____
 DEPTH OF GROUTING _____

HOLE SIZE (diam) _____ in. (from) _____ ft. (to) _____ ft.
CASING SIZE (diam) _____ in. (from) _____ ft. (to) _____ ft.
SCREEN (or perforations) (diam) _____ in. (from) _____ ft. (to) _____ ft. (opening size) _____
PUMP (installed)
 TYPE _____ Cap. (gpm) _____
 H.P. _____ Depth of intake _____ ft.

REMARKS: First deep boring in Tidewater Virginia and one of the first in the entire Atlantic Coastal Plain. Begun to obtain a supply to supplant or supplement the cistern water used at the post. Well a practical failure but was of decided value to science.
Gave first information on the total thickness far under cover of Miocene and Eocene deposits in Virginia.

(Use additional sheets if necessary)

FURNISHED BY Authority, U. S. Engineer's Office

DATE: _____

DEPTH (feet)		TYPE OF SOIL OR ROCK PENETRATED (gravel, clay, etc., hardness, color, etc)	REMARKS (water, caving, shot, screen, sample, etc)
FROM	TO		
0	5½	Marsh soil	
5½	18	Sand, fine clean, dark	
18	28	Sand, angular, light-colored, containing coarse sand, round pebbles and mud	
28	40	Sand and mud, different layers	
40	45	Some stone, sand and mud	
45	245	Miocene marl	(The lowest layer of the last showed some greensand and shells next hard stone full of shells)
245	261	Sand, bluish-gray, mixed with mud	
261	270	Same, fragments of shell marl, stone harder	
270	313	Softer, marl, sky blue	
<p>NOTE: "fossil shells or continuous marine deposits were 224 feet in thickness."</p>			