

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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: Chesapeake Corporation Mailing Address: West Point, Virginia 23181

TENANT: Mailing Address:

DRILLER: Layne Atlantic Company Mailing Address: P.O. Box 7095, Norfolk, VA. 23509

WELL LOCATION: County King William Approx. 75 feet NW (direction) of 13th Street and 265' feet SW (direction) of B Street

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: 7/30/76 DATE COMPLETED: 9/29/76

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 450' feet

WATER LEVEL: Stands feet below surface OR

has NATURAL flow of gallons per minute.

YIELD TEST: Method Pump  
Drawdown 59' feet  
Rate 1000 gal. per min.  
Duration 48 hrs., min.

HOLE SIZE: 23 inches from 0 to 340 feet  
30 inches from 340 to 425 feet  
inches from to feet

SCREEN SIZE: inches from to feet  
inches from to feet  
inches from to feet

WATER ZONES: from to feet  
from to feet  
from to feet

CASE SIZE: 18 inches from 0 to 340 feet  
10 inches from 310 to 425 feet  
inches from to feet

WATER: Color Taste  
Odor Temp. °F

GROUTING: Method  
Material Depth feet

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

PUMP: Type Turbine  
Capacity 1000 gal per min  
Depth of intake 300 feet

WATER ANALYSIS AVAILABLE: Yes X No

DRILL CUTTINGS SAVED: Yes 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:

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

INTERVAL SHEET

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Well Repository No.: W- 4790  
 C- 172

Date rec'd: 2/7/77 Date Processed: 7/11/77

Sample Interval: from 10 to: 450

PROPERTY: Chesapeake Corp. (13th St. Well)

Number of samples: 39

COMPANY: Layne - Atlantic

Total Depth: 450'

COUNTY: King William (West Point)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
-	300-310	-	-	-
10-20	310-320	-	-	-
20-30	320-330	-	-	-
30-40	330-340	-	-	-
40-50	340-350	-	-	-
50-60	350-360	-	-	-
60-70	360-370	-	-	-
70-80	370-380	-	-	-
80-90	380-390	-	-	-
90-100	390-400	-	-	-
100-110	400-410	-	-	-
110-120	410-420	-	-	-
120-130	420-430	-	-	-
130-140	430-440	-	-	-
140-150	440-450	-	-	-
	<u>          </u>			
		washed and unwashed samples.		
150-160	-	-	-	-
160-170	-	-	-	-
170-180	-	-	-	-
180-190	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
240-250	-	-	-	-
250-260	-	-	-	-
260-270	-	-	-	-
270-280	-	-	-	-
280-290	-	-	-	-
290-300	-	-	-	-

OWNER: Chesapeake Corp. (13th St. Well)  
DRILLER: Layne Atlantic  
COUNTY: King William

W# 4790  
C# 172  
Total Depth: 450'  
Quad: West Point  
Elev: ?5

<u>Depth (feet)</u>	<u>Well Log</u>
0-10	No Samples.
10-20	Sand - Light olive gray (5y 7/1); medium to very coarse, angular, moderate sorting; 10% fine phosphate fragments; feldspar; garnet; mica.
20-40	Sand - Light olive gray (5y 6/1); very sparse clay in clasts; fine to medium with few very coarse, angular and subangular, moderate sorting; 8% fine phosphate fragments; feldspar; garnet; rare shell fragments at 30-40'.
40-70	Sand - Light olive gray (5y 6/1); sparse clay; fine to very coarse; <del>with</del> some phosphate fragments; angular and subangular, poorly sorted; very few glauconite; rare shell fragments; feldspar; garnet.
70-110	Sand - Light olive gray (5y 6/1); sparse clay; fine and very coarse to granule, subangular and angular, poorly sorted; very few phosphate fragments; 1% shell fragment at 70-90' and 10% at 90-110'; feldspar; garnet.
110-130	Sand - Light gray (N7); very clean; medium to coarse, subangular, well sorted; 5% phosphate fragments; shell fragments 3%-10%; claw tip.
130-150	Sand - Light gray (N7); very clean; medium to very coarse, subangular, well sorted; 3% phosphate fragments; 20% shell fragments at 130-140' and 40% at 140-150'; pyrite on calcite(?) druze; mica.
150-160	Sand - Light and dark gray; 50% glauconite; medium dark green and brown; abundant fine Coquina fragments; medium to coarse, subangular; moderate sorting; forams.
160-190	Coquina - Light and dark gray; biogenetic limestone with 35% glauconite and shell imprints/fragments; some loose mixed grains; pyrite on calcite crystal fragments.
190-240	No Sample.

OWNER: CHESAPEAKE CORP.(13thST.WELL) -2-

W# 4790

C# 172

Total Depth: 450'

Depth  
(feet)

- 240-290 Sand, Glauconitic - Light and dark green; 95% glauconite, medium and dark green; sparse clay in small clasts; ~~sparse sand~~, medium-very coarse, subangular, poorly sorted; 20% fragments of Coquina; Forams.
- 290-310 Sand, Glauconitic - Light and dark green; 95+% glauconite, medium to very coarse, subangular, poorly sorted; 10% shell fragments; limestone fragments; Forams; Echinoderm spines.
- 310-330 Sand, Glauconitic - Light and Dark gray; sparse clay; 95+% glauconite; medium to very coarse, subangular, poorly sorted; 2% shell fragments; limestone fragments; Forams- Nodosaria; Echinoderm spines; quartz with fuschite at 320-330'; red, light brown and gray colored clay clasts at 320-330'.
- 330-350 Sand, Glauconitic - Light and dark gray; 90% glauconite - dark green; moderate clay at 330-340' and then abundant and varied in colors; ~~moderate sand~~, fine to granule, subangular, poorly sorted; 2% shell fragments - Pecten; Forams; sparse limestone fragments; mica; tooth at 350-360'.
- 360-410 Sand - Light olive gray (5y 7/1); \*fine to granule, subangular, and angular, moderate sorting; few glauconite; feldspar; garnet; pyrite fragments; \*very sparse clay at 380-400'.
- 410-450 ~~Sand -~~ Yellowish gray (5y 6/2), (5y 6/1); sparse clay; fine to very coarse with some granules, angular and subangular, moderate sorting; glauconite - 10% at 410-430', 20% at 420-430', 25% at 430-440', and 30% at 440-450'; feldspar; garnet; iron oxide and staining at 440-450'; rose quartz at 430-440'.

Logged by: J. K. Polzin  
Sept. 24, 1980