

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

1512 Willow Lawn Drive

OWNER: H. S. Realty Corporation

Mailing Address: Richmond, VA 23230

TENANT: Maryfield Sub.

Mailing Address:

DRILLER: Douglas & Dickinson, Inc.

Mailing Address: Box 498, Warsaw, Virginia

WELL LOCATION: County Essex

Approx. 3 ^{feet}/_{miles} outside of Tapp. NW (direction) of

on Rt. 17 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: DATE COMPLETED: August 13, 1968

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 422 feet

WATER LEVEL: Stands 26 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method _____
Drawdown 34 feet
Rate 100 gal. per min.
Duration - hrs., - min.

HOLE SIZE: 8 inches from 0 to 218 feet
5 7/8 inches from 218 to 422 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 395 to 415 feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 3 inches from 395 to 415 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color - Taste -
Odor - Temp. - °F

CASE SIZE: 6 inches from 0 to 218 feet
3 inches from 218 to 395 feet
3 inches from 415 to 422 feet

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

GROUTING: Method -
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

PUMP: Type -
Capacity 100 gal per min
Depth of intake _____ feet

DRILL CUTTINGS SAVED: Yes 37 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

Page 1 of 1
 Date rec'd: 3-24-70 Processed: 10-15-70
 PROPERTY: H. S. Realty Corp.
 (Merryfield Sub.)
 COMPANY: Douglas & Dickinson
 COUNTY: Essex (Tappahannock)

C-146
 Well Repository No: 2948
 Sample Interval: from 0 to: 405'
 Number of samples: 36
 Total Depth: 422'
 Oil or Gas: Water: x Exploratory:

From - To	From - To	From - To	From - To
0 - 24	266 - 277	-	-
24 - 35	277 - 287	-	-
35 - 45	287 - 298	-	-
45 - 56	298 - 309	-	-
56 - 66	309 - 320	-	-
66 - 77	320 - 330	-	-
77 - 87	330 - 341	-	-
87 - 88	341 - 351	-	-
88 - 98	351 - 362	-	-
98 - 109	362 - 372	-	-
109 - 119	372 - 383	-	-
119 - 130		-	-
130 - 140	393 - 405	-	-
140 - 151		-	-
-		-	-
161 - 172		-	-
172 - 182		-	-
182 - 193		-	-
193 - 203		-	-
203 - 214		-	-
214 - 224		-	-
224 - 235		-	-
235 - 245		-	-
245 - 256		-	-
256 - 266		-	-
-		-	-
-		-	-
-		-	-
-		-	-
-		-	-

All intervals have both washed and unwashed samples.



(Merryfield Sub.)
OWNER : H. S. Realty Corporation
DRILLER: Douglas and Dickinson
COUNTY : Essex

W# : 2948
C# : 146
TOTAL DEPTH: 422'
QUAD : Mount Landing

GEOLOGIC LOG

Depth
(feet)

- 0-24 Sand- grayish-orange; slightly clayey; medium grained; sub-angular to subrounded; well sorted; quartz; 10% ferricrete; feldspar; some glauconite.
- 24-35 Sand- off-white; fine to medium grained; subangular to subrounded; well sorted; quartz; feldspar; some ferricrete; some glauconite.
- 35-45 Sand- light olive gray; slightly silty; very fine grained; subangular to subrounded; well sorted; quartz; few black phosphatic fragments; glauconite.
- 45-56 Sand- yellowish-gray; slightly clayey; moderate silt; very fine grained; subangular to subrounded; well sorted; quartz; few black phosphatic fragments; glauconite.
- 56-66 Sand- yellowish-gray; moderate clay; moderate silt; very fine grained; subangular to subrounded; well sorted; quartz; few bone fragments; few black phosphatic fragments; glauconite; few diatoms; forams rare (inc. Nonion).
- 66-77 As above except forams scarce (inc. Nonion and Textularia).
- 77-87 As above except some black phosphatic material; forams rare.
- 87-88 Sand- yellowish-gray; some stained grains; moderate clay; moderate silt; very fine grained, some medium grains; subangular to subrounded; moderately well sorted; quartz; some black phosphatic material; glauconite; few diatoms.
- 88-98 As above except light olive gray; 2% black phosphatic material; 2% shell fragments.
- 98-109 Sand- light olive gray; moderate clay; slightly silty; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; some black phosphatic material; few grains of glauconite; few bone fragments; few shell fragments; few fragments of ferricrete.
- 109-119 Sand- light olive gray; slightly silty; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; some black phosphatic material; some shell fragments; few grains of glauconite; bone fragments.

(Merryfield Sub.)

OWNER: H. S. Realty Corporation

-2-

W#: 2948

Depth
(feet)

- 119-130 Sand- light olive brown; slightly clayey; slightly silty; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 3% shell fragments; some black phosphatic material; some glauconite; few bone fragments; forams rare (inc. Textularia).
- 130-140 Sand- light olive gray; medium to coarse grained, some fine grains, 10% granules; subangular to rounded; poorly sorted; quartz; 30% sandy limestone and shell fragments; 7% glauconite; few echinoid spines; forams (inc. Buccella).
- 140-151 Sand- light olive gray; slightly clayey; medium to coarse grained; subrounded to rounded; moderately well sorted; quartz; 15% glauconite; 15% sandy limestone and shell fragments; few black phosphatic fragments; few bone fragments; forams (inc. Buccella); ostracode.
- 151-161 No sample.
- 161-172 Sand and coquina- light olive gray; coarse grained, some medium grains; subrounded to rounded; well sorted; quartz; 35% sandy limestone and shell fragments; 20% glauconite; few bone fragments; forams (inc. Buccella); ostracodes.
- 172-182 Sand- light olive gray; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 7% limestone and shell fragments; few black phosphatic fragments; few grains of garnet; few echinoid spines; forams (inc. Buccella and Robulus).
- 182-193 Sand- light olive gray; coarse to very coarse grained; subrounded to rounded; moderately well sorted; quartz; 15% glauconite; 5% sandy limestone and shell fragments; few echinoid spines; forams (inc. Buccella).
- 193-203 Sand and coquina- light olive gray; moderate clay; medium to coarse grained, 20% granules, few pebbles; subangular to rounded; poorly sorted; quartz; 35% sandy limestone and shell fragments; 10% glauconite; some black phosphatic material; few flakes of muscovite; forams (inc. Buccella and Robulus).
- 203-214 As above except abundant clay; 10% granules, no pebbles; moderately sorted.

(Merryfield Sub.)

OWNER: H. S. Realty Corporation

-3-

W#: 2948

Depth
(feet)

- 214-224 Sand- olive light gray; abundant clay; fine to coarse grained, some granules; subangular to rounded; moderately sorted; quartz; 15% glauconite; 5% sandy limestone and shell fragments; few black phosphatic fragments; muscovite.
- 224-235 Sand- olive light gray; moderately clay; medium to coarse grained, some fine grains, few granules; subangular to rounded; moderately sorted; quartz; 40% glauconite; 5% sandy limestone and shell fragments; some ferricrete; few flakes of muscovite; forams scarce (inc. Buccella).
- 235-245 Sand- olive gray; slightly silty; medium to coarse grained; subrounded to rounded; moderately well sorted; 75% glauconite; quartz; few shell fragments; muscovite.
- 245-256 As above plus few echinoid spines.
- 256-266 Clay- grayish-orange-pink, light olive gray; slightly sandy; medium grained, some coarse grains; subrounded to rounded; well sorted; glauconite 65% of sand fraction; quartz; few flakes of muscovite.
- 266-277 As above except grayish-orange-pink.
- 277-287 Sand- olive light gray; moderate clay (clasts)- grayish-orange-pink, yellowish-gray; medium grained; subrounded to rounded; well sorted; 50% glauconite; quartz; few flakes of muscovite.
- 287-298 Sand- olive gray; slightly clayey (clasts)- grayish-orange-pink; medium grained; subrounded to rounded; well sorted; 60% glauconite; quartz.
- 298-309 Sand- salt and pepper; medium grained, some coarse grains; rounded; well sorted; 50% glauconite; quartz.
- 309-320 As above except slightly clayey (grayish-orange-pink); few sandy limestone and shell fragments.
- 320-330 Sand- olive light gray; moderate clay (clasts)- grayish-orange-pink; medium grained to gravel; subrounded to rounded; poorly sorted; quartz; 25% glauconite; 3% sandy limestone and shell fragments; forams rare (inc. Nodosaria).
- 330-341 As above.

(Merryfield Sub.)

OWNER: H. S. Realty Corporation

-4-

W#: 2948

Depth
(feet)

- 341-351 Sand- olive light gray; some stained grains; moderate silt; medium grained, some fine grains, 10% pebbles; subangular to rounded; moderately sorted; quartz; 20% glauconite; forams common (inc. Buccella); few flakes of muscovite.
- 351-362 As above except forams abundant (inc. Buccella); few ferricrete fragments.
- 362-372 As above except yellowish-gray; 7% glauconite; some feldspar.
- 372-383 Sand and gravel- yellowish-gray; some stained grains; medium grained, 5% granules, 40% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 7% glauconite; forams common (inc. Buccella); few flakes of muscovite.
- 383-393 No sample.
- 393-405 Sand- yellowish-gray; coarse grained, some granules, 3% pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; 3% glauconite; few grains of garnet; muscovite.
- 405-422 No sample.

Logged by: Michael T. Currie
August 3, 1979

OWNER: H. S. Relaty Corp. (Merryfield Sub.)
DRILLER: Douglas & Dickinson, Inc.
COUNTY: Essex (Tappahannock)

VDMR # 2948
WWCR # 146
TOTAL DEPTH : 422'

GEOLOGIC SUMMARY

<u>DEPTH</u> <u>(feet)</u>	<u>ROCK UNIT</u>	<u>AGE</u>
0-35	Columbia Group	Pleistocene
35-133	Calvert Formation	Middle Miocene
133-285	Nanjemoy Formation	Middle Eocene
285-393	Mattaponi Formation	Paleocene-Late Cretaceous
393-405	Patuxent Formation	Early Cretaceous
405-422	No Samples	-

Virginia Division of Mineral Resources
Robert H. Teifke - Geologist
November 19, 1970