

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: Douglas and Dickinson, Incorporated Mailing Address: P. O. Box 498
Warsaw, Virginia 22572

TENANT: Dangerfield Subdivision #2 Mailing Address: Tappahannock, Virginia

DRILLER: Douglas and Dickinson, Incorporated Mailing Address: As above

WELL LOCATION: County Essex Approx. 1/4 ^{feet}/_{miles} east (direction) of
U. S. Highway 17, at north edge and feet miles (direction) of Tappahannock

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

DATE STARTED: December, 1969 DATE COMPLETED: January, 1970

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 438 feet

WATER LEVEL: Stands 21 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method air

Drawdown 59 feet

Rate 100 gal. per min.

Duration _____ hrs., _____ min.

HOLE SIZE: 8 inches from 0 to 218 feet

6 inches from 218 to 420 feet

3 7/8 inches from 420 to 438 feet

SCREEN SIZE: 3 inches from 379 to 389 feet

2 1/2 inches from 410 to 420 feet

2 inches from 420 to 430 feet

WATER ZONES: from 379 to 389 feet

from 410 to 430 feet

from _____ to _____ feet

CASE SIZE: 6 inches from 0 to 218 feet

3 inches from 218 to 379 feet

2 inches from 389 to 410 feet

2 inches from 430 to 438 feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

GROUTING: Method _____

Material _____ Depth _____ feet

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other subdivision

PUMP: Type _____

WATER ANALYSIS AVAILABLE: Yes _____ No X

Capacity _____ gal per min

DRILL CUTTINGS SAVED: Yes 41 No _____

Depth of intake _____ feet

(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: _____

R -
P -

W-3562

C-156

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3562

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Douglas & Dickinson, Inc Mailing Address: Warsaw

TENANT: Dangerfield Subdivision #2 Mailing Address: Tappahannock, Va

DRILLER: Douglas & Dickinson, Inc. Mailing Address: Warsaw, Va

WELL LOCATION: County Essex Approx. 1/4 ^{feet} miles east (direction) of

US Hwy 17 and at north (direction) of corp. limits of Tappahannock

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

DATE STARTED: Dec. '69 DATE COMPLETED: Jan. 1970

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 438 feet

WATER LEVEL: Stands 21 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Aic
Drawdown 59 feet
Rate 100 gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: 8 inches from 0 to 218 feet
6 inches from 218 to 420 feet
3 7/8 inches from 420 to 438 feet

WATER ZONES: from 379 to 389 feet
from 410 to 430 feet
from _____ to _____ feet

SCREEN SIZE: 3 inches from 379 to 389 feet
2 1/2 inches from 410 to 420 feet
2 inches from 420 to 430 feet
* CASE SIZE: 6 inches from 0 to 218 feet
3 inches from 218 to 379 feet
3 inches from 389 to 410 feet
2 inches from 430 to 438 feet

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

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 _____ gal per min
Depth of intake _____ feet

DRILL CUTTINGS SAVED: Yes 41 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.)

MARKS: * Later info from Douglas (via H.D. - Candage):
Case 6" x 218', 3" x 194-204', 209-379', 389-410', 2" x 430-438'
Screen 204-209', 379-389', 2 1/2" x 410-420', 2" x 420-430'

(Dangerfield Subdivision #2)
OWNER : Douglas and Dickinson, Inc.
DRILLER: Douglas and Dickinson, Inc.
COUNTY : Essex (Tappahannock)

W# : 3562
C# : 156
TOTAL DEPTH: 438'
QUAD : Tappahannock
Mount Landing

GEOLOGIC LOG

Depth
(feet)

- 0-10 Silt and sand- yellowish-gray; minor clay; fine grained, few granules, few pebbles; subangular to subrounded; well sorted; quartz; feldspar; some glauconite.
- 10-21 Sand and silt- grayish-yellow; fine grained, few granules; subangular to subrounded; very well sorted; quartz; feldspar; some muscovite.
- 21-31 Sand- salt and pepper; fine to very coarse grained, granules, 7% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; abundant opaques.
- 31-42 Sand- yellowish-gray; dusky yellow, olive gray; slightly clayey; silty; fine to coarse grained; subangular to subrounded; poorly sorted; quartz; feldspar; 2% opaques; muscovite.
- 42-52 Sand and granules- light olive gray; slightly clayey; abundant silt; coarse to granules with some medium grains; subrounded; moderately sorted; quartz; feldspar.
- 52-63 Gravel- light olive gray; abundant silt; minor sand grains; quartz; feldspar; diatoms.
- 63-73 Clay and silt- yellowish-gray; abundant sand, fine grained, few medium through coarse grains, pebbles; quartz; diatoms; muscovite; few grains of glauconite; forams (inc. Siphogenerina).
- 73-84 Clay and silt- yellowish-gray; abundant sand, fine with some medium to coarse grains, few granules, pebbles; quartz; muscovite; diatoms; some phosphatic material; forams (inc. Nonion and Bulimina).
- 84-94 As above except no pebbles; some glauconite; forams (inc. Nonion and Textularia).
- 94-105 As above except forams (inc. Nonion and Bulimina).
- 105-115 As above plus few pebbles; forams (inc. Nonion, Bulimina, and Lagena).

Depth
(feet)

- 115-126 Clay and sand- yellowish-gray; abundant silt; fine to coarse grained, few pebbles; subangular; moderately sorted; quartz; 2% shell fragments; muscovite; some phosphatic material; some glauconite; diatoms; forams (inc. Nonion and Textularia); spines.
- 126-136 Gravel, sand, and clay- yellowish-gray; silty; fine to coarse with some very coarse and granular grains; subangular to rounded; poorly sorted; quartz (inc. blue pebble); glauconite 2% of sand; some feldspar; some phosphatic material inc. bone fragment; shell fragments; sandy limestone fragments; diatoms; forams (inc. Textularia); pyrite; spines; ostracode.
- 136-147 Sand- olive light gray; abundant clay; silty; fine to coarse grained with granules and pebbles; subangular to subrounded; poorly sorted; quartz; 5% shell fragments; 5% glauconite; some sandy limestone fragments; phosphatic material; forams (inc. Bolivina); pyrite; ostracode; diatoms; shark's tooth.
- 147-157 Sand- light olive gray; moderate clay; silty; medium to coarse with some fine grains, some granules; subangular to rounded; moderately sorted; quartz; 25% shell fragments; 15% glauconite; some sandy limestone fragments; spines; forams (inc. Rotalia and Textularia); ostracode.
- 157-168 As above except 30% glauconite; forams (inc. Rotalia).
- 168-178 Sand- light olive gray; moderate clay; silt; fine to coarse grained, few granules and pebbles; subangular to rounded; moderately sorted; quartz; 15% glauconite; some shell fragments; some sandy limestone fragments; muscovite; forams (inc. Buccella and Rotalia); ostracodes; spines.
- 178-189 Sand- olive light gray; abundant clay; fine to coarse grained, few granules and pebbles; subangular to rounded; moderately sorted; quartz; 10% glauconite; some shell fragments; muscovite; forams (inc. Discorbis and Rotalia); spines; few sandy limestone fragments; shark's tooth.
- 189-199 Sand- olive light gray; abundant clay; fine to medium with coarse grains, few granules and pebbles; subangular to rounded; moderately well sorted; quartz; 30% glauconite (black and green); muscovite; forams common; some shell fragments; ostracode; spines.

Depth
(feet)

- 199-210 Sand- olive light gray; moderate clay; some silt; fine to coarse grained, some granules; subangular to rounded; moderately sorted; quartz; 30% glauconite; 5% shell fragments; muscovite; forams (inc. Discorbis, Rotalia?, and Nodosaria); few sandy limestone fragments; ostracodes; spines.
- 210-220 Sand- olive light gray peppered with olive gray; abundant clay; silt; fine to coarse grained, few granules and pebbles; rounded; moderately sorted; 50% glauconite; quartz; muscovite; forams; spines; few shell fragments.
- 220-231 Sand and clay- light olive gray, greenish-gray; abundant clay; abundant silt; moderate to abundant sand; fine to coarse grained; 70% glauconite; quartz; muscovite abundant; forams spines; few shell fragments.
- 231-241 Sand- greenish-black, olive light gray; slightly clayey; minor silt; fine to coarse grained; rounded; moderately sorted; 50% glauconite; quartz; muscovite; forams; spines; pyrite.
- 241-252 Sand and clay- olive light gray, greenish-gray; abundant clay; silt; slight to abundant sand; fine to coarse grained; rounded; moderately sorted; 45% glauconite; quartz; muscovite; forams.
- 252-262 Clay- light olive gray; silty; slight to abundant sand; fine to coarse grained; glauconite; quartz; muscovite.
- 262-273 Clay- light olive gray, grayish-orange pink; slight to abundant sand, fine to medium with some coarse grains; glauconite; quartz; muscovite.
- 273-283 Clay and sand- grayish-orange pink, olive light gray; silt; fine to medium with some coarse grains; rounded; poorly sorted; quartz; glauconite; muscovite.
- 283-294 As above except fine to coarse grained.
- 294-304 Sand- olive light gray peppered with olive gray; silty; medium to coarse grained; rounded; moderately well sorted; quartz; 43% glauconite (black, green, and brown); some muscovite; foram.
- 304-315 As above plus clasts of grayish-yellow, fine grained sandy clay; no foram.

Depth
(feet)

- 315-325 Sand- olive light gray peppered with olive gray; slightly clayey with some grayish-orange pink clasts; medium to coarse grained; rounded; moderately well sorted; quartz; 35% glauconite (black, green, and brown).
- 325-336 As above plus more clay clasts; forams (inc. Nodosaria); shark's tooth.
- 336-346 As (315-325) except 45% glauconite; muscovite; forams (inc. Nodosaria and Bolivina); spines; ostracodes.
- 346-357 Sand- light olive gray; abundant clay; silty; fine to medium grained; rounded; moderately well sorted; 70% forams (inc. Nodosaria, Robulus, Discorbis, Nonion, Cibicides, Dentalina, and Marginulina); 12% glauconite; quartz; muscovite; spines.
- 357-368 Sand- light olive gray; slightly clayey; coarse to very coarse with some fine and medium grains; subangular to subrounded; moderately sorted; quartz; feldspar; 5% (?) glauconite; forams; some shell fragments; few books of muscovite; few grains of garnet.
- 368-379 Sand- light olive gray; slightly clayey; few grayish-orange pink clasts; coarse to very coarse with some fine to medium and granular grains; subrounded; moderately sorted; quartz; feldspar; 10% (?) glauconite; forams common (inc. Nodosaria); muscovite; few shell fragments; garnet.
- 379-389 Sand- light olive gray; slightly clayey, few grayish-orange pink clasts; medium to coarse with some fine and very coarse grains; subangular to subrounded; moderately sorted; quartz; feldspar; 10% glauconite; forams common; muscovite; garnet.
- 389-410 Sand and clay- light olive gray; moderate to pure clay, few clasts of grayish-orange pink; up to abundant sand; fine to medium with some coarse grains; subangular; moderately sorted; quartz; feldspar; 5% glauconite; muscovite; forams (inc. Nodosaria); pyrite.
- 410-420 Sand- yellowish-gray; minor silt; coarse to very coarse with some fine to medium grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some muscovite; some glauconite; forams.
- 420-430 Sand- yellowish-gray; minor silt; medium to coarse with some fine, very coarse, and granular grains; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite; garnet.

(Dangerfield Subdivision #2)

OWNER: Douglas and Dickinson, Inc.

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W#: 3562

Depth
(feet)

430-438 Sand- light olive gray; abundant clay; medium to very coarse with some fine and granular grains; subangular; moderately sorted; quartz; feldspar; some glauconite; some forams; garnet; muscovite.

Logged by: David Hubbard
September 14, 1979