

## COMMONWEALTH OF VIRGINIA

W#: 4568

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

C#: 194

MAILING ADDRESS:

## DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B-3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

## WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: James Mozingo Mailing Address: P.O. Box 15, Hague, Va. 22469TENANT: Jim's Seafood Mailing Address: sameDRILLER: Douglas Drilling Co., Inc. Mailing Address: Box 498, Warsaw, Va. 22572WELL LOCATION: County Westmoreland Approx. 300 <sup>feet</sup>/<sub>miles</sub> South (direction) ofSt. Rd. 606 and 0.5 <sup>xxxk</sup>/<sub>miles</sub> East (direction) of intersectionSt. Rds. 612 and 606.

(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: Sept. 12, 1975TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 233 feetWATER LEVEL: Stands 16 feet below surface ORhas NATURAL flow of - gallons per minute.YIELD TEST: Method airDrawdown 50 feetRate 40 gal. per min.Duration one hrs., - min.WATER ZONES: from - to - feetfrom - to - feetfrom 222 to 232 feetWATER: Color - Taste -Odor - Temp. - °FWELL TO SUPPLY: (check one) Home -Farm - Town - School -Industry - Other oyster houseWATER ANALYSIS AVAILABLE: Yes - No XDRILL 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: -HOLE SIZE: 6 1/4 inches from 0 to 147 feet3 7/8 inches from 147 to 233 feet- inches from - to - feetSCREEN SIZE: - inches from - to - feet2 inches from 222 to 232 feet- inches from - to - feetCASE SIZE: 4 inches from 0 to 147 feet2 inches from 147 to 222 feet2 inches from 232 to 233 feetGROUTING: Method noneMaterial - Depth - feetPUMP: Type -Capacity - gal per minDepth of intake - feet

(LOG OF WELL) OVER

# LOG

Douglas Drilling Co.

DATE: Sept. 12, 1975

FURNISHED BY:

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0'	approx.	20' brown, fine sand with clay binder and a little shell	
20'	approx.	110' grey, fine sand with clay binder and varying % shell	
110'	approx.	200' grey, fine sand with clay binder	
200'	approx.	220' grey, fine sand with clay binder and shell	
220'	approx.	225' grey, sandy	
225'	approx.	233' grey, sandy and rocky shellbed.	Screen: water 222-232'

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

INTERVAL SHEET

Page 1 of 1  
Date rec'd: 5/26/76 Date Processed: 1/24/77  
PROPERTY: James Mozingo (Jim's Seafood)  
COMPANY: Douglas Drilling Co.  
COUNTY: Westmoreland (Hague)

Well Repository No: W#: 4568 C#: 194  
Sample Interval: from: 0 to: 233'  
Number of samples: 22  
Total Depth: 233'  
Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 21	-	-	-
21 - 31	-	-	-
31 - 42	-	-	-
42 - 52	-	-	-
52 - 63	-	-	-
63 - 73	-	-	-
73 - 84	-	-	-
84 - 94	-	-	-
94 - 105	-	-	-
105 - 115	-	-	-
115 - 126	-	-	-
126 - 136	-	-	-
136 - 147	-	-	-
147 - 157	-	-	-
157 - 168	-	-	-
168 - 178	-	-	-
178 - 189	-	-	-
189 - 199	-	-	-
199 - 210	-	-	-
210 - 220	-	-	-
220 - 233	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

OWNER: James Mozingo  
(Jim's Seafood)  
DRILLER: Douglas Drilling Co.  
COUNTY: Westmoreland  
(Hague)

W#: 4568  
C#: 194  
TOTAL DEPTH: 233'  
QUAD: Machodoc or Kinsale

GEOLOGIC LOG

Depth  
(feet)

- 0 - 10 Clay and sand - grayish orange; abundant clay; moderate sand; medium to coarse grained, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 10 - 21 Sand - yellowish gray; moderate clay - yellowish gray, light gray (clasts); fine to very coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 21 - 31 Clay - light olive gray, light gray (clasts); moderate sand; medium to coarse grained, some fine grains; subangular to subrounded; moderately well sorted; quartz; few shell fragments; few grains of glauconite; muscovite.
- 31 - 42 As above except clay and sand; some shell fragments.
- 42 - 52 Clay - light olive gray; moderate sand; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; some shell fragments; few black phosphatic fragments.
- 52 - 63 As above plus few pieces of lignite; few grains of glauconite.
- 63 - 73 Clay - light olive gray; moderate sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 2% shell fragments; few gypsum crystals; lignite.
- 73 - 84 As above except 5% shell fragments.
- 84 - 94 Sand - yellowish gray; abundant clay; fine grained; subangular to subrounded; well sorted; quartz; few shell fragments; muscovite.
- 94 - 105 Sand - yellowish gray; abundant clay; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; 2% shell fragments; few flakes of muscovite; gypsum; forams scarce (inc. Nonion).
- 105 - 115 Clay - yellowish gray; abundant sand; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; some shell fragments; few black phosphatic fragments.
- 115 - 126 As above plus few gypsum crystals.

Depth  
(feet)

- 126 - 136 As above plus few grains of glauconite; few diatoms.
- 136 - 147 As above.
- 147 - 157 Clay - yellowish gray; some diatoms; few flakes of muscovite; few shell fragments; quartz; forams rare (inc. Robulus).
- 157 - 168 As above except no shell fragments; no Robulus.
- 168 - 178 Clay - light olive gray; few grains of quartz; muscovite; lignite.
- 178 - 189 Sand - olive light gray; slightly clayey; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; 15% shell fragments; some black phosphatic material; few grains of glauconite; forams scarce (inc. Robulus).
- 189 - 199 As above except moderate clay; few gypsum crystals; forams rare (inc. Robulus).
- 199 - 210 Coquina and sand - light olive gray; medium to coarse grained; subangular to subrounded; moderately well sorted; 60% limestone, sandy limestone, and shell fragments; quartz; 5% glauconite; few echinoid spines; forams (inc. Buccella and Cibicides).
- 210 - 220 Sand - light olive gray; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; 15% sandy limestone and shell fragments; 7% glauconite; some pyrite; few flakes of muscovite; few echinoid spines; forams (inc. Buccella).
- 220 - 233 Coquina - light olive gray; moderate sand; medium to coarse grained, few granules, few pebbles; subangular to subrounded; moderately well sorted; 80% limestone and shell fragments; quartz; 2% glauconite; few grains of pyrite; forams scarce (inc. Buccella).

Note: All samples are unwashed.

Logged by: Michael T. Currie  
May 1, 1979

OWNER: James Mozingo  
(Jim's Seafood)

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W#: 4568

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0- 21	21	Columbia Group	Pleistocene
21-105	84	Choptank (?) Formation	Miocene
105-178	73	Calvert Formation	Miocene
178-233	55	Nanjemoy Formation	Eocene

VIRGINIA DIVISION OF MINERAL RESOURCES  
David A. Hubbard, Jr., Geologist  
May 3, 1979