

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 3279  
C#: 173

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: Ira Muse Mailing Address: Oak Grove, VA

TENANT: Harbor View Colony #2 Mailing Address: \_\_\_\_\_

DRILLER: Douglas & Dickinson, Inc. Mailing Address: Box 498  
Warsaw, VA

WELL LOCATION: County Westmoreland Approx. 2.3 <sup>feet</sup> miles Northeast (direction) of  
Oak Grove and 4 <sup>feet</sup> miles South (direction) of Col. Beach

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

DATE STARTED: February 22, 1971 DATE COMPLETED: February 26, 1971

TYPE OF DRILL RIG USED: Failing Rotary TOTAL DEPTH 357 feet

WATER LEVEL: Stands 4 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Airlift  
Drawdown 40 feet  
Rate 40 gal. per min.  
Duration 2 hrs., \_\_\_\_\_ min.

HOLE SIZE: 6 inches from 0 to 231 feet  
3 7/8 inches from 231 to 357 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 338 to 353 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 2 inches from 338 to 353 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color ok Taste \_\_\_\_\_  
Odor ok Temp. \_\_\_\_\_ °F

CASE SIZE: 4 inches from 0 to 231 feet  
2 inches from 231 to 338 feet  
2 inches from 353 to 357 feet

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

GROUTING: Method Tremmie  
Material Neat cement Depth 105 feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No XX  
DRILL CUTTINGS SAVED: 34  
Yes XX No \_\_\_\_\_

PUMP: Type Installed by owner  
Capacity \_\_\_\_\_ gal per min  
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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# LOG

FURNISHED BY: Douglass & Dickinson, Inc.

DATE: \_\_\_\_\_

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	10	Sand & fine gravel	
10	21	Mottled clay	
21	31	Clay & fine gravel	
31	42	" " "	
42	52	" " "	
52	63	" " "	
63	73	Gray clay	
73	84	Gray clay	
84	94	Gray clay	
94	105	Gray clay	
105	115	Gray clay	
115	126	Gray clay	
126	136	Gray clay	
136	147	Gray clay & shell	
147	157	" " "	
157	168	" " "	
168	178	" " "	
178	189	" " "	
189	199	Gray clay	
199	210	" " "	
210	220	Blue clay	
220	231	" " "	
231	241	Sand & clay	
241	252	Sand	
252	263	" " "	
263	273	" " "	
273	284	" " "	
284	294	" " "	
294	305	" " "	
305	315	" " "	
315	326	" " "	
326	336	" " "	
336	346	" " "	
346	357	" " "	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No: W#: 3279

C#: 173

Date rec'd: 6/21/71 Date Processed: 10/15/71 Sample Interval: from: 0 to: 357

PROPERTY: Ira Muse

Number of samples: 34

COMPANY: Douglas & Dickinson

Total Depth: 357'

COUNTY: Westmoreland  
 (Oak Grove)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	263 - 73	-	-
10 - 21	273 - 84	-	-
21 - 31	284 - 94	-	-
31 - 42	294 - 305	-	-
42 - 52	305 - 15	-	-
52 - 63	315 - 26	-	-
63 - 73	326 - 36	-	-
73 - 84	336 - 46	-	-
84 - 94	346 - 57	-	-
94 - 105	-	-	-
105 - 15	-	-	-
115 - 26	-	-	-
126 - 36	-	-	-
136 - 42	-	-	-
142 - 51	-	-	-
151 - 68	-	-	-
168 - 78	-	-	-
178 - 89	-	-	-
189 - 99	-	-	-
199 - 210	-	-	-
10 - 20	-	-	-
20 - 31	-	-	-
31 - 41	-	-	-
41 - 52	-	-	-
52 - 63	-	-	-

Washed only not enough to split.

OWNER: Ira Muse  
DRILLER: Douglas and Dickinson  
COUNTY: Westmoreland  
(Oak Grove)

W#: 3279  
C#: 173  
TOTAL DEPTH: 357'  
QUAD: Col. Beach S.

GEOLOGIC LOG

Depth  
(feet)

- 0 - 10 Sand - light grayish orange; fine to medium grained, 20% granules, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.
- 10 - 21 Sand and clay - grayish orange, light olive gray, dark yellowish orange; moderate clay; abundant sand, fine to medium grained, few pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; glauconite, 2% of sand sized fraction; few flakes of muscovite.
- 21 - 31 Sand - light olive gray; slightly clayey; medium to coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 31 - 42 As above plus some fine grains, moderately sorted.
- 42 - 52 Clay - olive light gray; abundant sand; medium to coarse grained, few granules; subangular to rounded; moderately well sorted; quartz; glauconite 30% of sand sized fraction; some lignite; few shell fragments; muscovite.
- 52 - 63 Sand - olive light gray; moderate clay; medium to coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 63 - 73 Clay - olive light gray; abundant sand; fine grained, some medium grains; few pebbles; subangular to subrounded; well sorted; quartz; glauconite; 10% of sand sized fraction; feldspar (pebble); some muscovite; lignite; few bone fragments.
- 73 - 84 As above plus some light grayish yellow clay; some granules; no bone fragments.
- 84 - 94 Sand - olive light gray; moderate clay; medium grained; subangular to rounded; well sorted; quartz; 40% glauconite; few flakes of muscovite; lignite.
- 94 - 105 As above.
- 105 - 115 As above except no lignite.
- 115 - 126 Sand - olive light gray; abundant clay; medium grained, some fine grains; subangular to rounded; well sorted; quartz; 30% glauconite; some muscovite.
- 126 - 136 As above plus few black phosphatic fragments.

Depth  
(feet)

- 136 - 142 Clay -- olive light gray, yellowish gray, moderate orange pink; abundant sand; medium grained, some coarse grains, few granules; subangular to subrounded; moderately well sorted; quartz; glauconite 15% of sand fraction; few pieces of lignite; muscovite.
- 142 - 151 Clay and sand -- olive light gray; abundant clay; moderate sand; medium grained, some coarse grains; subangular to rounded; well sorted; quartz; glauconite 30% of sand fraction; some muscovite.
- 151 - 168 Sand -- olive light gray; abundant clay; medium grained; subangular to rounded; well sorted; quartz; glauconite 20% of sand fraction; some muscovite.
- 168 - 178 Clay -- olive light gray, moderate orange pink, very light gray; abundant sand; medium grained, few granules, few pebbles; subangular to rounded; well sorted; quartz; glauconite 20% of sand fraction; few flakes of muscovite.
- 178 - 189 As above except moderate sand.
- 189 - 199 As above except clay and sand; abundant clay; moderate sand; few shell fragments.
- 199 - 210 As above plus some coarse grains.
- 210 - 220 Sand -- olive gray; moderate clay; medium grained; subangular to rounded; well sorted; quartz; 20% glauconite; few flakes of muscovite; few shell fragments.
- 220 - 231 Sand -- olive light gray; moderate clay - olive light gray, moderate orange pink; medium grained, some very fine grains; subangular to rounded; well sorted; quartz; 30% glauconite; few flakes of muscovite; lignite.
- 231 - 241 Sand -- olive light gray; moderate clay; medium grained, some granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; 20% glauconite; few flakes of muscovite; lignite.
- 241 - 252 Sand -- salt and pepper; medium grained; subangular to rounded; well sorted; quartz; 35% glauconite; few flakes of muscovite; forams (inc. Buccella, Robulus, and Globigerina).
- 252 - 263 As above except 40% glauconite; forams (inc. Buccella); ostracode.
- 263 - 273 As above.
- 273 - 284 Sand -- salt and pepper; some stained grains; medium grained, some coarse grains; subangular to rounded; well sorted; quartz; 35% glauconite (black, green, brown); few flakes of muscovite.

Depth  
(feet)

- 284 - 294 Sand -- salt and pepper; some moderately to heavily stained grains; medium grained; subangular to rounded; well sorted; quartz; 40% glauconite (dark green, brown); few shell fragments; muscovite; forams (inc. Buccella); gypsum.
- 294 - 305 As above except no gypsum.
- 305 - 315 As above.
- 315 - 326 Sand -- olive light gray; slightly clayey; medium grained, some coarse grains, some granules, few pebbles; subangular to rounded; moderately well sorted; quartz; 35% glauconite; feldspar; muscovite; forams (inc. Buccella).
- 326 - 336 Sand -- salt and pepper; medium grained; subangular to rounded; well sorted; quartz; 35% glauconite; few flakes of muscovite; forams scarce (inc. Buccella and Robulus).
- 336 - 346 Sand -- white; medium grained; subangular to subrounded; well sorted; quartz; feldspar; 7% glauconite; few flakes of muscovite; garnet.
- 346 - 357 Sand -- white; medium to coarse grained; subangular to subrounded; well sorted; quartz; feldspar; 7% glauconite; some muscovite; few grains of garnet.

NOTE: All samples are unwashed.

Logged by: Michael T. Currie