

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3643  
C-110

MAILING ADDRESS:

Box 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Lancaster County School Board Mailing Address: Lancaster Court House

TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

DRILLER: Douglas Drilling Co. Inc. Mailing Address: Box 498, Warsaw, Va. 22572

WELL LOCATION: County Lancaster Approx. 0.25 <sup>DEXX</sup> miles east (direction) of  
Lancaster Court House 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 3, 1972

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 805 feet

WATER LEVEL: Stands 92 feet below surface OR

has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Air

Drawdown 125 feet

Rate 100 gal. per min.

Duration \_\_\_\_\_ hrs., \_\_\_\_\_ min.

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

from \_\_\_\_\_ to \_\_\_\_\_ feet

from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_

Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

WELL TO SUPPLY: (check one) Home \_\_\_\_\_

Farm \_\_\_\_\_ Town \_\_\_\_\_ School X

Industry \_\_\_\_\_ Other \_\_\_\_\_

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No X  
(77)

DRILL 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: 8 inches from 0 to 299 feet

6 inches from 299 to 805 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

No. 4 3 inches from 647 to 667 feet

No. 5 4 inches from 783 to 803 feet

CASE SIZE: 6 inches from 0 to 304 feet

3 inches from 304 to 647 feet

4 inches from 667 to 783 feet  
4 " " 803 805

GROUTING: Method \_\_\_\_\_

Material \_\_\_\_\_ Depth \_\_\_\_\_ feet

PUMP: Type \_\_\_\_\_

Capacity \_\_\_\_\_ gal per min

Depth of intake \_\_\_\_\_ feet

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

INTERVAL SHEET

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Well Repository No.: C-110  
W-3643

Date rec'd: 8/21/72 Date Processed: 12/18/72

Sample Interval: from 0 to: 805

PROPERTY: Lancaster County School Board

Number of samples: 77

COMPANY: Douglas Drilling Co.

Total Depth: 805'

COUNTY: Lancaster (Lancaster C. H.)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	315-325	630-640	-	-
10-21	325-336	640-651	-	-
21-31	336-346	651-661	-	-
31-42	346-357	661-672	-	-
42-52	357-367	672-682	-	-
52-63	367-378	682-693	-	-
63-73	378-388	693-703	-	-
73-84	388-399	703-714	-	-
84-94	399-409	714-725	-	-
94-105	409-420	725-736	-	-
105-115	420-430	736-747	-	-
115-126	430-441	747-758	-	-
126-136	441-451	758-769	-	-
136-147	451-462	769-780	-	-
147-157	462-472	780-791	-	-
157-168	472-483	791-802	-	-
168-178	483-493	802-805	-	-
178-189	493-504	-	-	-
189-199	504-514	-	-	-
199-210	514-525	-	-	-
210-220	525-535	-	-	-
220-231	535-546	-	-	-
231-241	546-556	-	-	-
241-252	556-567	-	-	-
252-262	567-577	-	-	-
262-273	577-588	-	-	-
273-283	588-598	-	-	-
283-294	598-609	-	-	-
294-304	609-619	-	-	-
304-315	619-630	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Lancaster County School Board  
DRILLER: Douglas  
COUNTY: Lancaster

W # 3643  
C # 110  
TOTAL DEPTH - 805'  
QUAD - Lancaster  
ELEV - 82'

DEPTH  
(FEET)

WELL LOG

0-10	Sand	- grayish orange (10YR 7/4); abundant clay; fine to very coarse, subrounded, moderately sorted.
10-31	Sand	- dark yellowish orange (10YR 6/6); fine to pebble, subrounded, poor to moderate sorting; iron oxide stains.
31-52	Sand	- gray (N5); sparse clay; very fine to pebble, subrounded, poor to moderate sorting; 5% phosphate fragments at 31-41'; mica.
52-63	Sand	- light olive gray (5Y 6/1); abundant clay; fine to pebble, subrounded, poor sorting; iron oxide; quartzite; lignite; mica.
63-73	Shelly Sand	- light and dark gray; 60% shell fragments - <u>Mulinia, Corbula, Polinices, Oliva, Turritella</u> ; sparse clay; fine to pebble, subrounded, poor sorting; 8% phosphate fragments.
73-84	Sand	- light and dark gray; moderate clay; fine to pebble, subrounded, moderately sorted; 10% phosphate fragments; 40% shell fragments; rose quartz.
84-94	Sand	- light olive gray; sparse clay; very fine to granule, subround, moderately sorted; 10% phosphate fragments; 20% shell fragments; ochre.
94-126	Sand	- pale yellowish brown; sparse to abundant clay; very fine to pebble, subrounded, poor to moderate sorting; 10% phosphate fragments at 94-115'; 5% glauconite at 115-126'; few to 10% shell fragments; ochre, iron oxide and mica at 94-105'.
126-157	Shelly Sand	- light and dark brown; abundant clay; very fine to very coarse, subrounded, moderately sorted; 5% glauconite; 50% shell fragments - <u>Arca, oyster, chela, Dentalium, Pecten</u> ; abundant mica.

DEPTH (FEET)		WELL LOG
157-178	Sand	- pale yellowish brown (10YR 6/2); sparse to abundant clay; fine to very coarse, subangular and subrounded, moderately sorted; 3% phosphate fragments; 5-8% fine shell fragments.
178-199	Sand	- yellowish gray (10YR 7/6); abundant clay; fine to very coarse, subangular and subrounded, moderately sorted; 3% phosphate fragments; 1% shell fragments at 178-188'.
199-231	Clay	- light olive gray (5Y 6/1); moderate sand; fine to very coarse, subrounded, poor sorting; mica at 210-231'.
231-252	Sand	- light olive gray (5Y 6/1); clay abundant; fine to very coarse, subrounded, poor sorting; phosphate fragments; 3-10% shell fragments.
252-346	Clay	- light olive gray (5Y 6/1); abundant sand; very fine to coarse, subrounded, poor sorting; phosphate fragments at 252-273'; few shell fragments; diatoms; mica at 262-273'; ochre at 294-304'; forams - <u>Robulus</u> , <u>Dentalina</u> , <u>Siphogenerina</u> , <u>Nonion</u> .
346-357	Sand	- light olive gray (5Y 6/1); 50% shell fragments; sparse clay; very fine to very coarse, subrounded, poor sorting; phosphate fragments.
357-388	Sand, Shelly	- light and dark gray; 40-50% shell fragments; very sparse to sparse clay; fine to granule, subround, moderate sorting; phosphate fragments at 378-388'.
388-399	Sand	- light olive gray (5Y 6/1); abundant clay; 60% shell fragments; medium to coarse, subrounded, moderately sorted; 10% glauconite; ostracod; forams - <u>Discorbis</u> , <u>Cibicides</u> , <u>Nonion</u> , <u>Robulus</u> , <u>Guttulina</u> , <u>Globigerina</u> .
399-409	Sand, Glauconitic	- light and dark brown; 70% glauconite; sparse clay; fine to granule, subrounded to rounded, poor sorting; CaCO <sub>3</sub> powder.
409-420	Sand	- light and dark brown; fine to very coarse, subrounded to rounded, poor sorting; 20% glauconite; 10% shell fragments.

DEPTH (FEET)		WELL LOG
420-451	Sand	- light and dark brown; 20-60% shell and limestone fragments; 40% glauconite; fine to very coarse, subrounded to rounded, poor sorting; coral, bryozoa; forams - <u>Nodosaria</u> ; ostracod.
451-504	Sand, Glauconitic	- light and dark brown; 80-90% glauconite; very sparse clay at 462-504'; fine to granule, subrounded to rounded, poor sorting; 25% shell fragments at 451-462'; mica at 483-493'.
504-525	Sand, Glauconitic	- light and dark green; 90% glauconite; very sparse clay; fine to very coarse, subrounded, poor to moderate sorting; forams - <u>Robulus</u> at 514-525'; mica.
525-535	Sand, Glauconitic	- grayish olive green (5GY 3/2); abundant clay; fine to granule, subrounded, poor sorting; forams - <u>Robulus</u> ; mica.
535-546	Clay	- light olive gray (5Y 6/1); abundant sand; fine to coarse, subrounded, poorly sorted; 40% glauconite; mica.
546-567	Sand, Glauconitic	- grayish olive green (5GY 3/2); 90% glauconite; sparse to abundant clay; fine to very coarse, subrounded, poor sorting; forams; mica.
567-588	Clay	- light olive gray (5Y 6/1); moderate sand; fine to very coarse, subrounded, poor sorting; 5-10% glauconite; forams - <u>Nodosaria</u> ; mica.
588-609	Sand, Glauconitic	- grayish olive green (5GY 3/2); 90% glauconite; sparse clay; fine to very coarse, subrounded, poor sorting; 10% shell fragments; forams - <u>Nodosaria</u> ; mica.
609-619	Sand, Glauconitic	- light and dark green; 80% glauconite; fine to very coarse, subrounded, poor sorting; mica.
619-630	Sand	- moderate yellowish brown (10YR 5/4); medium grained, subangular, well sorted; 10% glauconite; mica.

DEPTH  
(FEET)

WELL LOG

630-640	No Sample.	
640-651	Sand	- light and dark brown; sparse clay; fine to granule, subangular to rounded, poor sorting; 30% glauconite; mica.
651-661	Sand	- light olive gray (5Y 6/1); medium to very coarse, subangular, moderately well sorted.
661-682	Sand	- pale yellowish brown (10YR 6/2); abundant clay; fine to granule, angular, subangular and subrounded, poor sorting; 30-40% glauconite; feldspar, rose quartz and mica at 661-672'.
682-693	Sand, Glauconitic	- light and dark brown; 70% glauconite; abundant clay; fine to very coarse, subangular and subrounded, moderately sorted; abundant iron oxide; forams - <u>Nodosaria</u> ; mica.
693-703	Clay	- light and dark brown; abundant sand; fine to very coarse, subangular and subrounded, poor sorting; 40% glauconite; mica - fuschite.
703-725	Sand	- light and dark brown; 60% glauconite; fine to very coarse, subangular and subrounded, poor sorting; vertebrae; iron oxide; pyrite; feldspar; mica - fuschite.
725-805	Sand	- light olive gray (5Y 6/1); sparse clay; very fine to granule, subangular, moderately sorted; few to 20% glauconite; mica; garnet at 758-805'; feldspar at 769-805'.

Logged by:  
J. K. Polzin  
Jan. 21, 22, 1981