

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: Northumberland County School Board Mailing Address: Heathsville, Virginia

TENANT: Avalon Maintenance Shop Mailing Address: _____

DRILLER: Douglas Drilling Company, Incorporated Mailing Address: Box 498, Warsaw, Virginia

WELL LOCATION: County Northumberland Approx. 1000 ^{feet}/_{miles} east (direction) of U.S. Highway 360 & intersection of _____ and _____ ^{feet}/_{miles} (direction) of St. Rt. 636 at Avalon

(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: May 18, 1977

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 692 feet

WATER LEVEL: Stands 100 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method air

Drawdown 50 feet

Rate 50 gal. per min.

Duration 5 hrs., _____ min.

HOLE SIZE: 8 1/2 inches from 0 to 54 feet

6 1/2 inches from 54 to 506 feet

3 7/8 inches from 506 to 692 feet

SCREEN SIZE: _____ inches from _____ to _____ feet

20 ss 2 inches from 663 to 683 feet

_____ inches from _____ to _____ feet

CASE SIZE: 4 inches from 0 to 508 feet

2 inches from 508 to 663 feet

2 inches from 683 to 692 feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

GROUTING: Method Tremmie pipe

Material neat cement Depth 54 feet

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other School maintenance shop

PUMP: Type _____

WATER ANALYSIS AVAILABLE: Yes _____ No x

Capacity _____ gal. per min

DRILL CUTTINGS SAVED: Yes 66 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: _____

LOG

FURNISHED BY: _____

DATE: May 18, 1977

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.	85	tan	Varying % fine sand, medium sand, coarse sand, gravel, rocks, and clay.
85	approx.	150	gray	Fine sand with clay binder
150	approx.	315	blue/green	Fine sand with clay binder
315	approx.	335	green/olive	Fine sand with clay binder
335	approx.	400	olive	Fine sand with clay binder and shell
400	approx.	485	olive	Fine sand, soft messy sandy clay and shell
485	approx.	640	gray	Fine sand with gray black sandy clay
640	approx.	683	gray	Fine, medium, and coarse sand SCREEN
683	approx.	692	gray	Fine sand with clay binder

(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- 4924
 C- 165

Date rec'd: 8/29/77 Date Processed: 11/9/77

Sample Interval: from 0 to: 692

PROPERTY: County School Board
 (Avalon Maint. Shop)

Number of samples: 66

COMPANY: Douglas Drilling Co.

Total Depth: 692

COUNTY: Northumberland (Avalon)

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	672-683	-	-
52-63	367-378	<u>683-692</u>	-	-
63-73	378-388	-	-	-
73-84	388-399	-	-	-
84-94	399-409	-	-	-
94-105	409-420	-	-	-
105-115	420-430	-	-	-
115-125	430-441	-	-	-
126-136	441-451	-	-	-
136-147	451-462	-	-	-
147-157	462-472	-	-	-
157-168	472-483	-	-	-
168-178	483-493	-	-	-
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	-	-	-

Washed and Unwashed Samples.

Owner: County School Board (Avalon Maint. Shop) W# 4924
Driller: Douglas Drilling C# 165
County: Northumberland Total depth: 692'
Quad: Heathville
Elev: 92'

Depth
(feet)

WELL LOG

0-10 Sand - Light grayish orange (10yr 6/4); abundant clay; medium to granule, subangular, poorly sorted.

10-42 Sand - Dark yellowish orange (10yr 5/6); sparse clay; fine to very coarse with some granules, subangular, some rounded, moderate sorting; 1% glauconite, 3% at 31' to 42'.

42-63 Gravel - Dark yellowish orange (10yr 5/6); sparse clay; fine to pebble, subangular, rounded, poorly sorted; 3% glauconite; wood fragments.

63-84 Sand - Dark yellowish orange (10yr 5/6); sparse clay; fine to granule, subangular, rounded, poorly sorted; 5% glauconite; pebbles.

84-105 Clay - Light olive gray (5y 6/1); abundant sand; very fine to medium with some loose coarse to granule, subangular, poorly sorted; very rare glauconite; mica.

105-147 Clay - Pale yellowish brown (10yr 6/2); abundant sand; very fine to medium and at 126-47' - very fine to very coarse; subangular, poorly sorted; very rare glauconite; brown (iron) staining on all clasts.

147-157 Sand - Pale yellowish brown (10yr 6/2); abundant clay; very fine to granule, subangular, poorly sorted; very rare glauconite; mica.

157-168 Clay - Pale yellowish brown (10yr 6/2); abundant sand; very fine to granule, subangular, poorly sorted; very rare glauconite; mica.

168-189 Sand - Light olive gray (5y 6/1); moderate to abundant clay; very fine to granule, subangular, poorly sorted; very rare glauconite; very rare iron stained shell fragments; mica.

189-210 Clay - Light olive gray (5y 6/1); abundant sand; very fine to granule, subangular, poorly sorted; very rare glauconite; diatoms; mica.

210-272 Sand - Light olive gray (5y 6/1); abundant clay; very fine to granule, subangular, poorly sorted; very rare glauconite; forams-nonon, robulus; 262'-272' very rare shell fragments.

<u>Depth</u> <u>(feet)</u>	
272-294	Clay - Yellowish gray (5y 7/2); abundant sand; very fine to granule, subangular, poorly sorted; clay in fine pellets.
294-357	Clay - Yellowish gray (5y 7/2); abundant sand; very fine to granule, subangular, poorly sorted; <u>diatoms</u> ; <u>forams-robulus</u> , <u>discorbis</u> , <u>siphogenerina</u> , <u>bolivina</u> ; mica.
357-420	Gravel, Shell - Yellowish gray (5y 7/2); 50% shell fragments; sparse clay; medium to granule, subangular, poorly sorted.
420-430	Sand - Yellowish gray (5y 7/2); sparse clay; medium to granule, subangular, poorly sorted; 40% shell fragments; 20% <u>+</u> glauconite, brown and green.
430-441	Sand - Yellowish Gray (5y 7/2); sparse clay; medium to granule, subangular, poorly sorted; 20% glauconite, brown and green; 20% shell fragments.
441-462	Sand - Yellowish gray (5y 7/2); sparse clay; medium to granule, subangular, poorly sorted; 30% glauconite; 15% shell fragments and 5% at 451 - 462'.
462-483	Sand - Yellowish gray (5y 7/2); moderate clay; medium to granule, subangular, poorly sorted; 40% glauconite; 5% shell fragments and 1% at 472-483'.
483-504	Sand, Glauconitic - Olive gray (5y 3/2); very sparse clay in clasts and sparse at 493-504; 90%+ glauconite, brown and green, medium grained; coarse to granule, 10% granules, subrounded, poorly sorted; limestone and glauconite clasts.
504-525	Sand, Glauconitic - Dark olive brown (5y 3/4); moderate clay; 60% glauconite; fine to granule, subangular to subrounded, poorly sorted; mica.
525-546	Sand, Glauconitic - Light and dark gray; 80% glauconite; fine to granule, subangular to subrounded, poorly sorted; moderate clay in large clasts.
546-567	Clay, Glauconitic - Light and dark gray; 50% glauconite; abundant sand; fine to granule, subangular to subrounded, poorly sorted; very rare shell fragments; mica.
567-609	Clay - Light olive gray (5y 6/1); moderate sand; very fine to medium, subangular, poorly sorted; 10% to 1% glauconite (1% at 588'); mica.

Depth
(feet)

- 609-619 Sand, Glauconitic - Olive black (5y 2/1); 90% glauconite, moderate clay; medium to very coarse, subangular, poorly sorted; very rare shell fragments; mica.
- 619-640 Sand, Glauconite - Olive black (5y 2/1); sparse clay; 80% glauconite; medium to very coarse, subangular, poorly sorted; very rare shell fragments; bryozoa.
- 640-651 Sand - Moderate yellow gray (5y 6/2); medium to very coarse, subangular, moderate sorting; 15% glauconite, feldspar, mica.
- 651-683 Sand - Moderate yellow gray (5y 6/2); very sparse clay; medium to granule, subangular, moderate sorting; 5-3% glauconite; mica; garnet.

Logged by: J. K. Polzin
Aug. 28, 29, 1980