

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
B 3667
C Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: North Wales Corp. Mailing Address: Warrenton, Va.

TENANT: John S. Cooper Mailing Address: _____

DRILLER: Leazer Pump & Well Co. Mailing Address: Remington, Va.

WELL LOCATION: County Fauquier Approx. 3.4 ~~xxxx~~ miles north-east (direction) of
687 - 802 intersection and 1.0 ~~xxxx~~ miles south (direction) of Rt. 802 on 681

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

DATE STARTED: Nov. 11, 1972 DATE COMPLETED: Nov. 13, 1972

TYPE OF DRILL RIG USED: Air rotary TOTAL DEPTH 370 feet

WATER LEVEL: Stands 50 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method air
Drawdown 294 feet
Rate 9 gal. per min.
Duration 4 hrs., 0 min.

HOLE SIZE: 8 3/4 inches from 0 to 43 feet
6 1/16 inches from 43 to 370 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 82 to 84 feet
from 285 to 286 feet
from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color clear Taste OK
Odor none Temp. N/A °F

CASE SIZE: 6 1/4 inches from 0 to 43 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry _____ Other 3 homes and stable

GROUTING: Method Natural
Material _____ Depth 43 feet

WATER ANALYSIS AVAILABLE: Yes x No _____

PUMP: Type 2 H.P., 60 Stage Sub.
Capacity 8 gpm @ 40 psi gal-per-min
Depth of intake 300 feet

DRILL CUTTINGS SAVED: Yes 37 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: _____

LOG

FURNISHED BY: Harold E. Leazer

DATE: Nov. 28, 1972

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	Brown soil & clay	
10	20	Overburden & weathered rock	
20	30	Overburden - greenstone residue	
30	40	Green rock - some weathering	
40	50	" " " "	
50	370	Green rock - varies in color and hardness - some sheared (Maybe, schist, slate, and greenstone)	

(Use additional forms if necessary)

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

INTERVAL SHEET

C- 167

Page 1 of 1

Well Repository No: 3641

Date rec'd: 11-28-72 Date Processed: 12-13-72

Sample Interval: from 0 to: 370

PROPERTY: John S. Cooper
 (North Wales)

Number of samples: 37

COMPANY: Leazer Pump & Well Co.

Total Depth: 370'

COUNTY: Fauquier (Turnbull)

Oil or Gas: Water: x Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 60	-	-
10 - 20	260 - 70	-	-
20 - 30	270 - 80	-	-
30 - 40	280 - 90	-	-
40 - 50	290 - 300	-	-
50 - 60	300 - 10	-	-
60 - 70	310 - 20	-	-
70 - 80	320 - 30	-	-
80 - 90	330 - 40	-	-
90 - 100	340 - 50	-	-
100 - 10	350 - 60	-	-
110 - 20	360 - 70	-	-
120 - 30	-	-	-
130 - 40	-	-	-
140 - 50	-	-	-
150 - 60	-	-	-
160 - 70	-	-	-
170 - 80	-	-	-
180 - 90	-	-	-
190 - 200	-	-	-
200 - 10	-	-	-
210 - 20	-	-	-
220 - 30	-	-	-
230 - 40	-	-	-
240 - 50	-	-	-

All intervals have both washed and unwashed samples

OWNER: John S. Cooper (North Wales)
DRILLER: Leazer Pump & Well Co.
COUNTY: Fauquier (Turnbull)

W # 3641
C # 167
TD: 370'

GEOLOGIC LOG

Depth
(feet)

OVERBURDEN (0-20')

0-20 Weathered metabasalt — tan to reddish-brown, fine crystalline; some light-green epidote, clear to opaque quartz, hematite and a minor amount of muscovite

CATOCTIN FORMATION (20-370')

20-50 Partially-weathered metabasalt — light green, fine crystalline; with light-green epidote, chlorite, muscovite and quartz

50-110 Metabasalt — light grayish-green, fine crystalline; mostly light-green epidote and chlorite; some milky quartz and secondary calcite; a minor amount of feldspars

110-130 Metabasalt — light grayish-green, fine crystalline; most fragments have well-developed cleavage; some chlorite and a minor amount of secondary calcite

130-180 Chlorite schist — dark green, fine crystalline; composed mostly of chlorite fragments with some mica flakes; minor amount of secondary calcite

180-210 Metabasalt — light green, fine crystalline; with some epidote, chlorite and traces of calcite and calcopyrite

210-370 Chlorite schist — dark grayish-green, fine to medium crystalline; composed mostly of chlorite and light-green epidote; some secondary calcite and a minor amount of clear to opaque vein quartz; most fragments have a distinct cleavage

OWNER: John S. Cooper - 2 -
(North Wales)

W # 3641
C # 167

GEOLOGIC SUMMARY

<u>Rock Unit</u>	<u>Thickness (feet)</u>	<u>Age</u>
Overburden	20	—
Saprolite	30	—
Catoctin Formation	320	Precambrian

Virginia Division of Mineral Resources
E. B. Nuckols III, Geologist
December 18, 1972