

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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: Lummus Company #1 Mailing Address: 1515 Broad St. Bloomfield, NJ.

TENANT: ICI Chemical Co. Mailing Address: Hopewell, Va. Rt. 2, Box 2294

DRILLER: Layne Drilling Corp. Mailing Address: Va. Beach, Va.

WELL LOCATION: County Chesterfield Approx. 1 ~~mile~~ ^{feet} miles northwest (direction) of Bermuda Hundred and .3 miles south (direction) of James River

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

DATE STARTED: 5/26/70 DATE COMPLETED: 7/5/70

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 302 feet

WATER LEVEL: Stands 27 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pump
Drawdown 3'5" feet
Rate 425 gal. per min.
Duration 24 hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 48 feet
8 inches from 48 to 75 feet
6 inches from 75 to 302 feet
SCREEN SIZE: g inches from 57 to 73 feet

WATER ZONES: from 50 to 72 feet
from _____ to _____ feet
from _____ to _____ feet

_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
CASE SIZE: 8 inches from 0 to 57 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color clear Taste _____
Odor none Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry X Other _____

GROUTING: Method pressurized
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No X

PUMP: Type _____
Capacity _____ gal per min
Depth of intake _____ feet

DRILL CUTTINGS SAVED: 20 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: Test hole to 302', set pit 12" casing from 0-48'. Reamed hole from 48' to 75'.
Set 15' of 100 slot Johnson screen. Developed as 75' observation well.

LOG

FURNISHED BY: Layne Drilling Corp.

DATE: July 5, 1979

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	18	Red brown silt	
18	47	Yellow brown sand & gravel	
47	50	Clay white & gray	
50	80	Yellow brown sand & rock	
80	102	Gray sand & gravel	
102	120	Clayey sand & gravel	
120	140	Sand & gravel	
140	225	Silty sand & gravel	
225	232	Sandy clay	
232	250	Silt & gravel	
250	254	Sandy clay	
254	302	Clayey sand	

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

INTERVAL SHEET

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Well Repository No: W#: 2922
 C#: 193

Date rec'd: Date Processed: 8/26/70

Sample Interval: from 50' to 290'

PROPERTY: Lummus Co. (Ob. #1)
 (ICI America)

Number of samples: 20

COMPANY: Layne Drilling Corp.

Total Depth: 302'

COUNTY: Chesterfield (Bermuda Hundred)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
-	-	-	-
NO - SAMPLES	240 - 250	-	-
-	250 - 260	-	-
-	260 - 270	-	-
-	270 - 280	-	-
50 - 60	280 - 290	-	-
60 - 70	-	-	-
80 - 90	-	-	-
-	-	-	-
100 - 110	-	-	-
102 -	-	-	-
-	-	-	-
110 - 120	-	-	-
-	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
-	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
-	-	-	-
223 - 230	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Lummus Co. Obs. #1
(ICI America)
DRILLER: Layne Drilling
COUNTY: Chesterfield (Hopewell)

W#: 2922
C#: 193
TOTAL DEPTH: 302'
QUAD.: Hopewell
ELEV.: 29'

GEOLOGIC LOG

Depth
(feet)

0-50 No sample.

50-60 Gravel — multicolored; 10-14 mm.; subangular to rounded; well sorted; quartz; feldspar.

60-70 As above except 16-26 mm.

70-80 No sample.

80-90 Sand — off white; slightly clayey; coarse grained to granular, some medium grains, 10% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar.

90-100 No sample.

100-110 As (80-90) plus few flakes of muscovite.

102 Granules — off white; slightly clayey; moderate sand; coarse to very coarse grained, 15% pebbles; angular to subrounded; moderately sorted; quartz; feldspar; some muscovite; few flakes of biotite.

110-120 Sand — off white; moderate clay; medium grained to granular, 15% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some garnet; muscovite.

120-130 No sample.

130-140 Gravel — white; 10% granules; 4-10 mm.; angular to subrounded; moderately well sorted; quartz; feldspar.

140-150 As above except 4-15 mm.

150-160 As above except few granules.

160-170 Granules — off white; slightly clayey; slightly sandy; coarse to very coarse grained, 10% pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar.

Depth
(feet)

- 170-180 Gravel — off white; moderate clay; moderate sand; coarse grained to granular, 70% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some muscovite.
- 180-190 Granules — medium gray; moderate clay (clasts); slightly sandy; coarse to very coarse grained, 10% pebbles; angular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 190-200 No sample.
- 200-210 Gravel — multicolored; few granules; 4-12 mm.; angular to subangular; moderately well sorted; quartz; feldspar.
- 210-220 As above except 20% granules.
- 220-230 Granules — off white; some very coarse grains, 10% pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; few flakes of muscovite.
- 230-240 No sample.
- 240-250 As above except slightly clayey; 15% pebbles.
- 250-260 As above except moderate sand; coarse to very coarse grained, some pebbles.
- 260-270 As above plus few grains of garnet.
- 270-280 As above except no garnet.
- 280-290 As above.
- 290-302 No sample.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-50	50	No Sample	
50-290	240	Patuxent Formation	Cretaceous