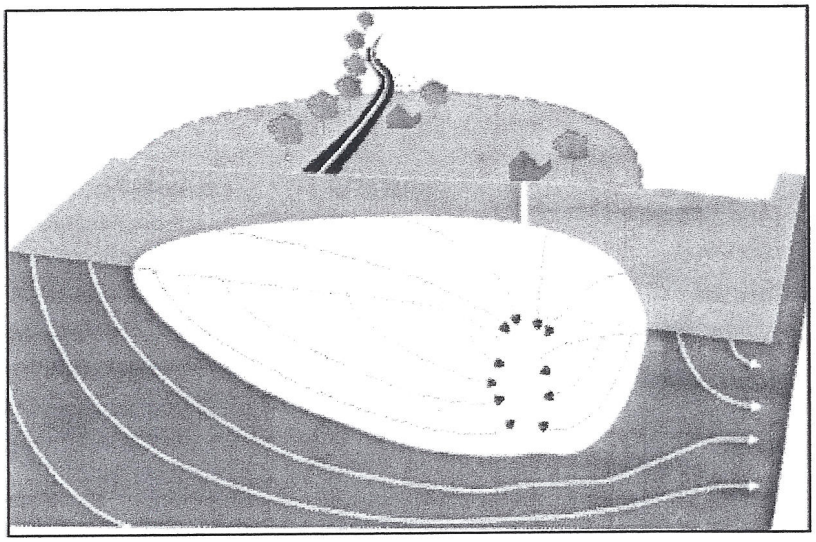
SOURCE WATER ASSESSMENT

FOR W.L. GORE AT CHERRY HILL

CECIL COUNTY, MD



Prepared By
Water Management Administration
Water Supply Program
December 2005

MDE

Robert L. Ehrlich, Jr.
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SUMMARY

The Maryland Department of the Environment's (MDE's) Water Supply Program (WSP) has conducted a Source Water Assessment for W.L. Gore & Associates, Inc.'s Cherry Hill Plant located near Elkton in Cecil County, Maryland. This report delineates the area that contributes water to the drinking water wells, identifies potential sources of contamination within the area and determines the susceptibility of the water supply to contamination. Recommendations for protecting the water supply conclude the report.

The source of the plant's potable water supply is a fractured-rock aquifer known as the Port Deposit Gneiss. The system uses three wells to obtain its drinking water supply. The Wellhead Protection Area was delineated using by the WSP using EPA-approved methods.

Point sources of contamination were identified within and near the assessment area from field inspections and MDE databases. The Maryland Department of Planning's 2002 land use map for Cecil County was used to identify non-point sources of contamination. Maps showing location of the wells, potential sources of contamination, and land use are included at the end of this report.

The susceptibility analysis is based on a review of existing water quality data for the water system, the presence of potential sources of contamination, in the assessment area, well integrity and the inherent vulnerability of the aquifer. It was determined that the Cherry Hill Plant's water supply is susceptible to nitrates and to volatile organic contaminants. It is not susceptible to synthetic organic compounds, other inorganic compounds, fecal coliform or protozoans like *cryptosporidia* and *giardia*. To reduce the risk of bacterial contamination, the water system should evaluate the integrity of the casings for both wells and abandon any unused wells on the property. Also, Well 1, which is located next to a road, has no protective structures around it. A structure to protect it from traffic is recommended.

INTRODUCTION

The Water Supply Program has conducted a Source Water Assessment for W.L. Gore & Associates, Inc.'s Cherry Hill Plant located in Cecil County, Maryland. The facility operates its own water treatment plant and uses three wells, which supply the water treatment plant.

As defined as part of Maryland's Source Water Assessment Plan (SWAP), "large systems" are community and non-community water systems that have water appropriation and use permits with average annual appropriation permit exceeding 10,000 gpd. The Cherry Hill Plant's water appropriation and use permit allows for an average annual water use of 55,500 gpd, however, most of the water is used for cooling water, process water and ground water remediation. The plant has about 200 employees and average annual water use for potable and sanitary uses is about 2,000 gpd.

HYDROGEOLOGY

The Cherry Hill Plant is located about four miles north of Elkton (Figure 1). This region is underlain by metamorphic rock. The 1986 Geologic Map of Cecil County designates the underlying rock Gneiss at Rolling Mill. Older literature labels it Port Deposit Gneiss. The rock is described as "Medium Gray, fine- to medium-grained, biotite-quartz-plagioclase gneiss, commonly with crystals of magnetite and tiny garnets. Contacts are very poorly exposed but apparently are gradational and/or interfingering with units of the James Run Formation." In such rocks, water is stored in fractures and in the overlying saprolite and soils. The ground water is generally unconfined and the water table mimics the surface topography. Well yields are dependent on the number and nature of fractures penetrated by the well. Yields range from 1 to 200 gpm, with median yield around 10 gpm.

WELL INFORMATION

Well information for the system was obtained from the Water Supply Program's database, site visits, well completion reports and sanitary survey inspection reports. The plant is served by three potable supply wells that are listed in Table 1. The Appendix consists of copies of the applications to drill the wells and the well completion reports for those wells. There are also six remediation wells on the property. The water from the remediation wells is treated and used for cooling and process water. Since their water is not used for drinking water source waters for those wells have not been included in this report.

TABLE 1. WELL INVENTORY

WELL #	PERMIT #	TOTAL DEPTH	CASING DEPTH	YEAR DRILLED	COMMENTS
WELL 1	CE720386	400'	42'	1972	located along road
WELL 2	CE732923	400'	50'	1979	
WELL 3	CE811412	560'	60'	1985	

SOURCE WATER ASSESSMENT AREA DELINEATION

For ground water systems, a Wellhead Protection Area (WHPA) is considered to be the source water assessment for the system. As defined by Maryland's SWAP, the wellhead protection area for a public water system using less than 10,000 gallons per day whose wells are completed in fractured crystalline rock is a radius of 1,000 feet around the production wells. The water supply wells are located on a topographic high and ground water flow in the vicinity of the Cherry Hill Plant has been altered by the ground water remediation on the property. The WHPA around the water supply wells has been enlarged to a radius of 1,700 feet to account for the impact of their remediation and on-site usage. Figure 2 shows the 208-acre Wellhead Protection Area (WHPA) that was delineated, which is more than adequate to meet the daily average ground water recharge for this system.

POTENTIAL SOURCES OF CONTAMINATION

Potential sources of contamination can be classified as either point or non-point sources. Examples of point sources are underground storage tanks, ground and surface water discharges, landfills, animal feeding operations, and ground water contamination sites. These sites are usually associated with commercial or industrial facilities that use chemicals that may, if handled inappropriately, contaminate ground water via a discrete point location. Non-point sources are associated with land use practices, such as use of pesticides, fertilizer, animal wastes or septic systems, that lead to ground water contamination over a larger area.

Point sources of contamination were identified within and near the assessment area from field inspections and from MDE Water and Waste Management databases. Figure 2 is a topographic map showing potential sources of contamination within and near the WHPA. Three potential contamination sources were found. The closest source is a ground water clean up at the Cherry Hill Plant itself. Impacted ground water is contained on site by a series of recovery wells, treated to remove VOC's, and then returned to the subsurface through an infiltration gallery. There are also two underground storage tanks along Singerly Road.

The Maryland Department of Planning's 2002 land use map for Cecil County was used to identify non-point sources of contamination (Figure 3). Several land use categories were identified within the delineated WHPA (Table 2). The predominant land use within the WHPA is orchards.

TABLE 2. LAND USE SUMMARY FOR THE WELLHEAD PROTECTION AREA

Land Use Categories	Total Area (acres)	Percentage of WHPA
Orchard	65.6	31.5
Industrial	37.6	18.0
Forest	33.1	15.9
Cropland	31.2	15.0
Commercial	25.8	12.4
Low Density Residential	15.1	7.2

The Maryland Department of Planning's Cecil County 2004 Sewer Map (Figure 4) indicates that the Cherry Hill Plant is served by public sewer. The sewer system runs along Singerly Road and serves most of the neighboring water users (Table 3). Most of the WHPA area, which consists of cropland, orchard and forest, is designated no planned service area.

TABLE 3. SEWER SERVICE SUMMARY FOR THE WELLHEAD PROTECTION AREA

Sewage Service Area	Total Area (acres)	Percentage of WHPA
Existing Service Area	72	34
No Planned Service	136	65

WATER QUALITY DATA

Water quality data from the Water Supply Program's (WSP) database was reviewed for Safe Water Drinking Act (SWDA) contaminants. In accordance with Maryland's SWAP, data submitted by the owner/operator of the system was compared with the Maximum Contaminant Levels (MCLs). If monitoring data is greater than 50% of the MCL, the assessment will describe the typical sources of that contaminant and locate the possible sources of the contaminant for this site. At the Cherry Hill Plant, drinking water is treated with post hypochlorination, ultraviolet radiation, activated carbon granules and cartridge filtration.

Inorganic Compounds (IOCs)

Two inorganic compounds were detected in quantities greater than 50% of the MCL. Nitrate has been measured numerous times during the past eleven years. Before 1997, nitrate was present at levels of less than half the MCL of 10 ppm. It appears to be gradually increasing (Figure 4). The high nitrates may be attributed to fertilzer that is applied to the large orchard that is located immediately west of the wells. On-site fertilization of the facility's gardens, trees and grounds can also be a source of elevated nitrates. In 2003 to 2005, nitrate levels ranged from 6.1 ppm to 8.1 ppm.

Table 4. Inorganic Compounds Detected Above 50% of the MCL

CONTAMINANT NAME	MCL (ppm)	SAMPLE DATE	RESULT (ppm)
NITRATE	10	7-Nov-97	5.8
NITRATE	10	29-Jan-98	5.47
NITRATE	10	15-Jun-99	5.09
NITRATE	10	3-Dec-99	5.58
NITRATE	10	7-Feb-00	5.4
NITRATE	10	5-May-00	5.4

Table 4 continued:

NITRATE	10	1-Sep-00	7.1
NITRATE	10	8-Dec-00	6.32
NITRATE	10	1-Nov-01	7.34
NITRATE	10	21-Dec-01	6
NITRATE	10	21-Dec-01	6
NITRATE	10	9-Dec-02	7.35
NITRATE	10	10-Jan-03	7.52
NITRATE	10	4-Mar-03	7.5
NITRATE	10	7-Mar-03	7.87
NITRATE	10	11-Apr-03	7.31
NITRATE	10	2-May-03	8.13
NITRATE	10	6-Jun-03	7.23
NITRATE	10	7-Jun-03	7.23
NITRATE	10	5-Sep-03	8.09
NITRATE	10	5-Dec-03	6.38
NITRATE	10	5-Mar-04	5.56
NITRATE	10	4-Jun-04	7.18
NITRATE	10	3-Sep-04	7.25
NITRATE	10	3-Dec-04	7.15
NITRATE	10	7-Mar-05	6.58
NITRATE	10	1-Apr-05	6.5
NITRATE	10	6-May-05	6.08
NITRATE	10	3-Jun-05	6.9

Volatile Organic Compounds (VOCs)

A review of the data indicates that no from 1997 to 2000, methyl tert butyl ether levels ranging from 0.9 ppb to 9.0 ppb. Chloroform levels ranging from 0.7 ppb to 3.6 ppb were detected from 2001 to 2004. Trichloroethane and dibromochloromethane were each detected once at levels of 2.5 ppb and 2.8 ppb respectively. Chloroform and dibromochloromethane are both disinfection by products and therefore are not related to ground water contamination.

Synthetic Organic Contaminants (SOCs)

A review of the data indicates that no SOCs have been detected above 50% of the MCL.

Microbiological Contaminants

Routine bacteriological monitoring, which measures total coliform bacteria, is conducted in the finished water for each noncommunity water system on a quarterly basis. Total coliform bacteria are not pathogenic but are used as indicator-organisms for other disease-causing microorganisms. No microbiological contaminants were found in samples from 1996 to 2005. In 2002, additional raw water samples were collected for an evaluation of the sensitivity of the supply wells to microorganisms found in surface water, such as

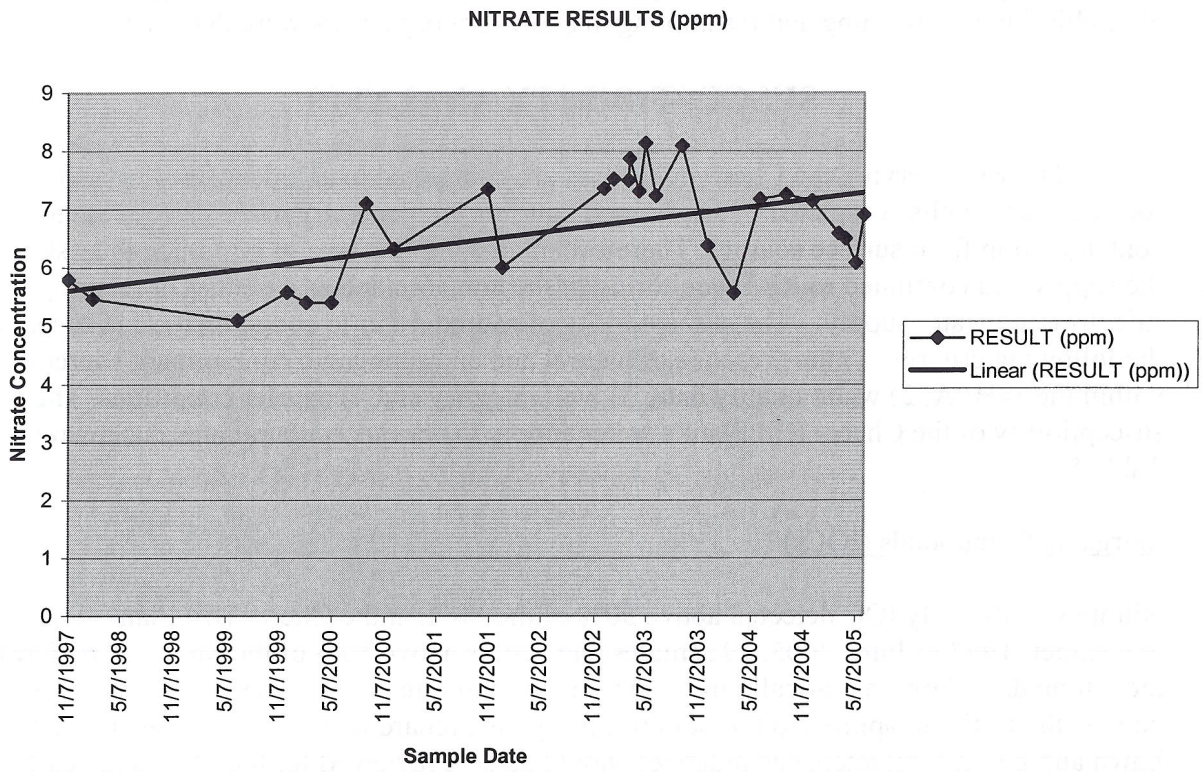
giardia or cryptosporidium. Initial samples showed low levels of coloform organisms, but after chlorination, flushing and resampling, no coliform organisms were detected.

SUSCEPTIBILITY ANALYSIS

The wells serving the Cherry Hill Plant are completed in an unconfined crystalline rock aquifer. Wells completed in unconfined aquifers are generally more susceptible to contamination from surface sources. Therefore, managing this area to minimize the risk to the supply and continued routine monitoring of the contaminants is essential in assuring a safe drinking water supply. The susceptibility of source water to contamination is based on the following criteria: 1) the presence of natural and anthropogenic contaminant sources within the WHPA; 2) water quality data; 3) well integrity and 4) aquifer conditions. The susceptibility of the Cherry Hill Plant's water supply to various contaminants is shown in Table 5.

Inorganic Compounds (IOCs)

Nitrate was the only IOC detected above 50% of the MCL at the Cherry Hill Plant. From November, 1997 to June, 2005, 29 samples had results above 50% of the MCL. A review of the nitrate data shows a gradually increasing trend in nitrate levels. The source of nitrate may be the fertilizer applied to but not utilized by the orchard that is located next to wells. Lawn and grounds maintenance practices should also be reviewed for the plant and nearby school properties to determine if they are also possible sources of nitrate in ground water. Most of the WHPA is in an area not planned for public sewer, but only 7.2 % of the area uses onsite septic systems for wastewater disposal. Onsite septic systems in the WHPA are also sources of nitrate in ground water.



Volatile Organic Compounds (VOC's)

No VOC's above 50% of the MCL have been detected in samples of treated water at the Cherry Hill Plant, however, since a ground water clean up is in process within the wellhead protection area, the wells are considered vulnerable to VOC contamination. In addition, MTBE has been detected in the water supply on several occasions. The majority of sample results that are available for MDE to evaluate are from finished water samples from which most VOCs are likely to be removed.

Synthetic Organic Compounds (SOC's)

Repeated samples have been collected for SOCs from the Cherry Hill Plant's water sources. No detections have been at levels of concern. The Cherry Hill Plant's water supply is not considered susceptible to SOC contamination.

Radionuclides

Nontransient, noncommunity systems are currently not regulated for radionuclides. No data is available about the presence of radionuclides in the Cherry Hill Plant's water supply.

Microbiological Contaminants

Based on raw water bacteriological data, the Cherry Hill Plant's wells were determined not to be under the influence of surface water. In addition, no bacteria have been detected in any of the routine bacteriological samples that have been collected. The Cherry Hill Plant's water supply is not susceptible to microbiological contaminants.

TABLE 5. SUSCEPTIBILITY CHART

CONTAMINANT TYPE	Are Contaminant Sources present in the WHPA?	Are Contaminants detected in WQ samples at 50% of the MCL?	Is Well Integrity a Factor?	Is the Aquifer Vulnerable?	Is the System Susceptible to the Contaminant?
Inorganic Compounds	YES	YES	NO	YES	YES
Volatile Organic Compounds	YES	YES	NO	YES	YES
Synthetic Organic Compounds	NO	NO	NO	YES	NO
Microbiological Contaminants	NO	NO	NO	NO	NO

MANAGEMENT OF THE SOURCE WATER ASSESSMENT AREA

The wells serving the Cherry Hill Plant appear to be in good condition. Water quality testing indicated the presence of nitrates and four VOCs. Recommendations for maintaining the integrity of this system are listed below:

- Well 1 is located next to an internal road on the plant property. Construction of a protective barrier around the well is recommended to protect it from passing vehicles.
- Continue maintenance and protection of the wells.
- Abandon all wells that are not in use according to State regulations.
- Continue monitoring for VOCs, IOCs, SOCs and radionuclides in accordance with MDE's requirements.
- Annual sampling of raw water for microbiological contaminants is recommended. It is a good indicator of the integrity of the wellhead.
- Any increase in pumpage or addition of new wells to the system may require extension of the WHPA. The system is required to contact the Water Supply Program when an increase in pumpage is applied for or when new wells are being considered.

REFERENCES

Bartlett, C.L., K.P. Garon, and M.J. Liberati, 1993, Hydrogeologic Evaluation Report, W.L. Gore and Associates, Inc., Cherry Hill, Maryland; Dupont Environmental Remediation Services, Wilmington, DE, 26 p.

Higgins, M.W. and L.B. Conant, 1990, The Geology Cecil County, Maryland, Maryland Geological Survey Bulletin 37, 183p.

Otton, E.G., R.E. Willey, R.A. McGreggor, G. Achmad, S.N. Hiortdahl, and J.M. Gerhart, 1988, Water Resources and Estimated Effects of Ground-Water Development, Cecil County, Maryland, Maryland Geological Survey Bulletin 34, 133p.

Maryland Department of the Environment, Water Supply Program, 1999, Maryland's Source Water Assessment Plan, 36p.

FIGURES

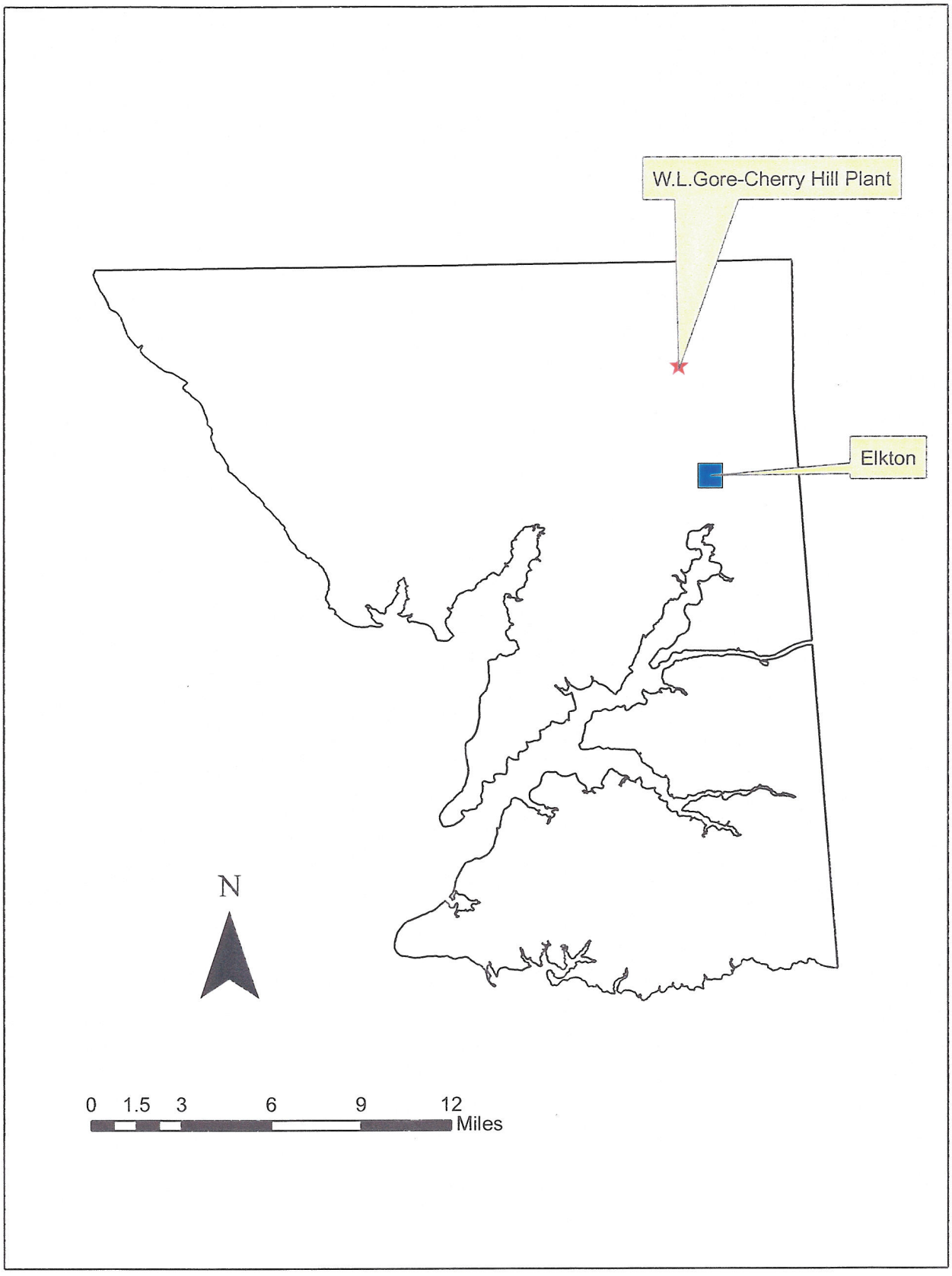


Figure 1. Location Map

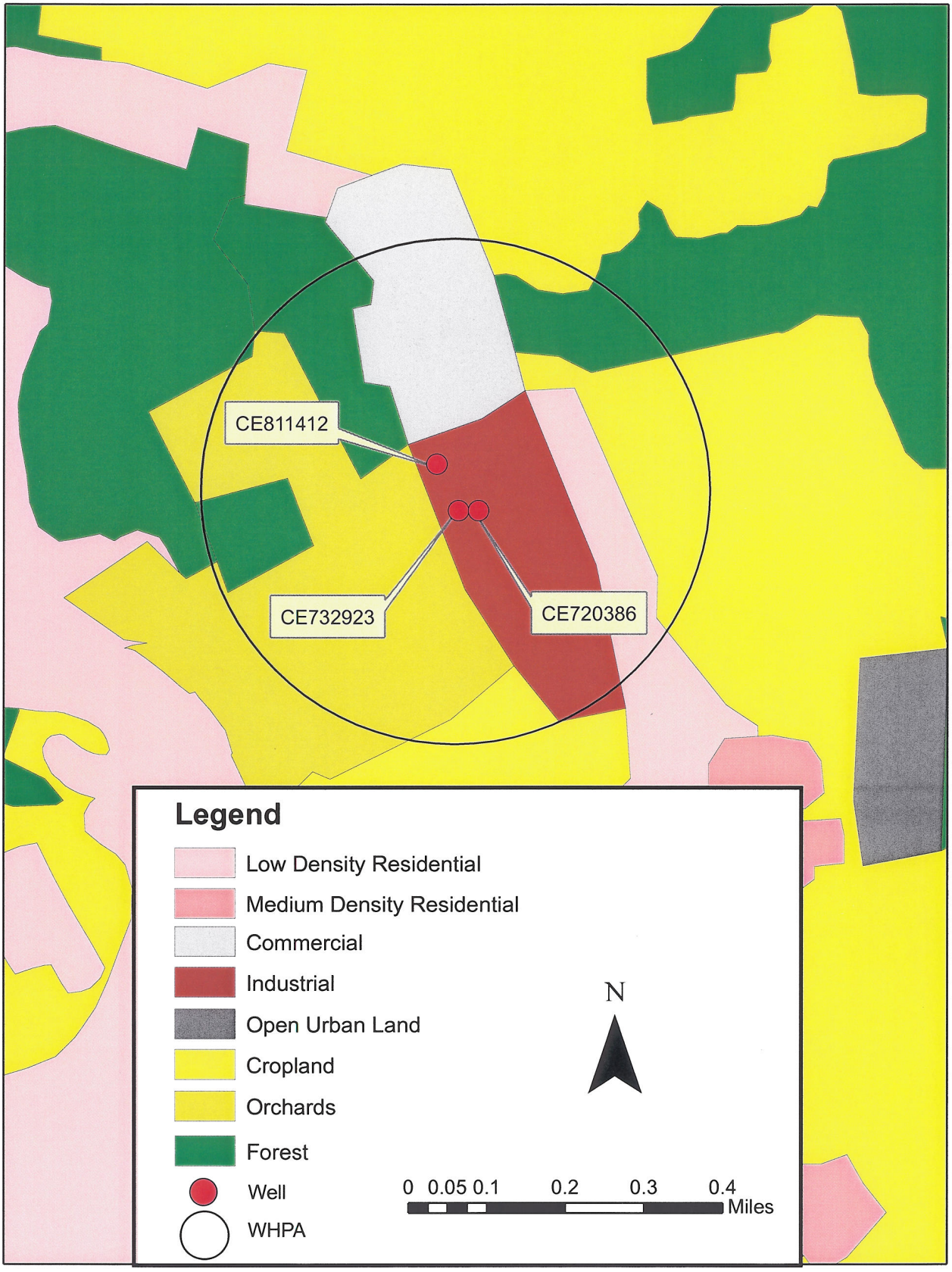


Figure 3. Land Use Map

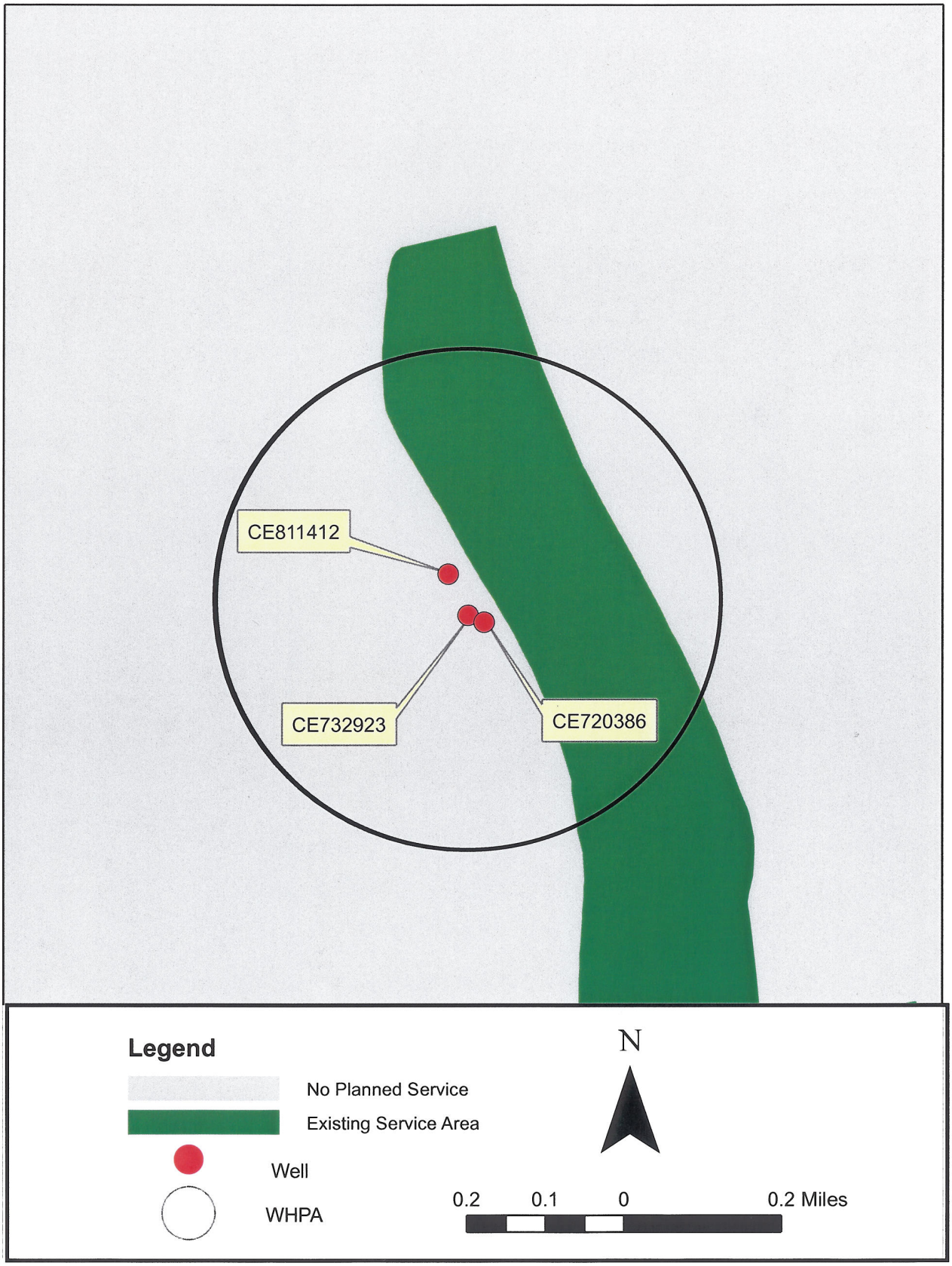


Figure 4. Sewer Map

APPENDIX

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE PRINT OR TYPE

SEQUENCE NO. (DEP USE ONLY): 8661
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-5 ON ALL CARDS)

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER: W.L. Core - Cherry Hill

DATE Received: JUL 1 1985

DATE WELL COMPLETED: [illegible]

Depth of Well: 560 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL": CE-81-1412

OWNER: Core (last name) W.L. & Associates (first name)
STREET OR RFD: 2201 Sincerely Rd. TOWN: Elkton, Md.
SUBDIVISION: SECTION: LOT:

WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	Check if water bearing
Brn. Wea. Rock	0	4	
Lt. Brn. Sandy Wea. Rock	4	22	
Brn Wea. Rock	22	41	
Gray Schist	41	143	
Gray schist & Quartz	143	146	
Quartz & Feldspar	146	183	
Gray Schist	183	244	✓
Quartz & Feldspar	244	255	
Gray Schist	255	300	✓
Gray Schist	300	417	
Gray Peg. Schist	417	560	✓

CIRCLE APPROPRIATE LETTER
- A — A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
- E — ELECTRIC LOG OBTAINED
- P — TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 10.17.13 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

DRILLERS IDENT. NO. 278
Max L. Walter
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box): YES (Y) NO (N)
TYPE OF GROUTING MATERIAL
CEMENT (CM) BENTONITE CLAY (BC)
NO. OF BAGS 11 NO. OF POUNDS 1034
GALLONS OF WATER 55
DEPTH OF GROUT SEAL (to nearest foot)
from 0 ft. (TOP) to 60 ft. (BOTTOM) (enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below
ST STEEL; CO CONCRETE; PL PLASTIC; OT OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)	Total depth of main casing (nearest foot)
ST	6	60

OTHER CASING (if used) — EACH CASING

diameter inch	depth (feet) from	to

SCREEN RECORD
screen type or open hole insert appropriate code below
ST STEEL; BR BRASS BRONZE; HO OPEN HOLE; PL PLASTIC; OT OTHER

C 2

	DEPTH (nearest ft.)	
EACH SCREEN 1	HO	60 to 560
2		
3		

SLOT SIZE: ____ 2 ____ 3
DIAMETER OF SCREEN: ____ (NEAREST INCH)

GRAVEL PACK from ____ to ____
IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)
T (70) TELESCOPE CASING; (E.R.O.S.) (72) LOG INDICATOR; WO (74-76) OTHER DATA

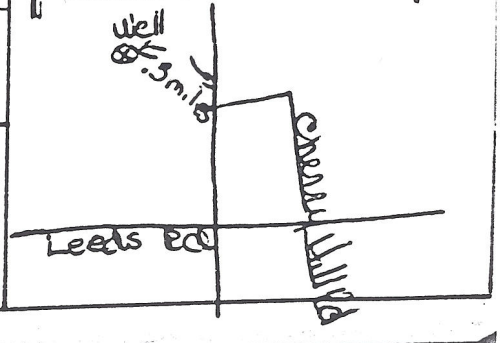
C 3

PUMPING TEST
HOURS PUMPED (nearest hour): 6
PUMPING RATE (gal. per min. to nearest gal.): 4
METHOD USED TO MEASURE PUMPING RATE: Stop Watch & Bucket
WATER LEVEL (distance from land surface)
BEFORE PUMPING: 35ft
WHEN PUMPING: 350

TYPE OF PUMP USED (for test)
- (A) air
- P piston
- T turbine
- C centrifugal
- R rotary
- O other (describe below)
- J jet
- S submersible

PUMP INSTALLED
DRILLER WILL INSTALL PUMP (CIRCLE) (YES or NO): YES (NO)
IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE:
CAPACITY: GALLONS PER MINUTE (to nearest gallon)
PUMP HORSE POWER
PUMP COLUMN LENGTH (nearest ft.)
CASING HEIGHT (circle appropriate box and enter casing height): (+) above / (-) below LAND SURFACE: 1 (nearest foot)

LOCATION OF WELL ON LOT
SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



ORIGINAL

2/26/85 Rec. #2539 — EMERGENCY/TEMPORARY NO. IF ANY

SEQUENCE NO. (OEP USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL	OEP PERMIT NUMBER
1121	please print or type	CE-81-1412
THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS	fill in this form completely	

Date Received: 02685

OWNER INFORMATION

GORE W L ASSOCIATES
Owner — First Name

2401 SINGERLY RD
Street or RFD

ELKTON MD 21921
Town — State — Zip

DRILLER INFORMATION

MAX R. WALTON — 278 (License No.)
Driller's Name

WALTON CORPORATION
Firm Name

P.O. BOX 1097 NEWARK DE 19715
Address

Signature: Max R. Walton — 25 FEB 85 — Date

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.): 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY): 10000

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D — HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
- F — FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
- (I) — INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
- P — PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)
- T — TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

APPROXIMATE DEPTH OF WELL: 300 FEET

APPROXIMATE DIAMETER OF WELL: 6 NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) — JETTED — Jetted & DRIVEN
AIR-ROTary — (AIR-PERcussion) — ROTARY (Hydraulic Rotary)
CABLE — REVerse-ROTary — DRive-POINT
other

REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)

- (N) THIS WELL WILL NOT REPLACE AN EXISTING WELL
- Y — THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- S — THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY
- D — THIS WELL WILL DEEPEN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE)

Not to be filled in by driller (OEP USE ONLY)

APPROP. PERMIT NUMBER: CE72GAP010

FORCE: CS (WRITE INITIALS IN BOX) PERMIT No. CE-81-1412

LOCATION OF WELL

COUNTY: CECIL
WL Gore Cherry Hill
SUBDIVISION:
SECTION: LOT:
NEAREST TOWN: CHERRY HILL
MILES FROM TOWN (enter 0 if in town): 17 MI

DIRECTION OF WELL FROM TOWN (CIRCLE BOX): (NW) N NE W TOWN E SW S SE

NEAR WHAT ROAD: SINGERLY ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX): NORTH (W) EAST SOUTH

DISTANCE FROM ROAD: 400

ENTER FT or MI: FT

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

COUNTY NAME: Cecil — COUNTY NO.
OEP SIGNATURE — STATE HEALTH INSERT S
DATE ISSUED: 030185 — SIGNATURE: Charles E. Simpson — EXP. DATE: 9/1/85
NORTH GRID: 67 1000 — EAST GRID: 1120 000

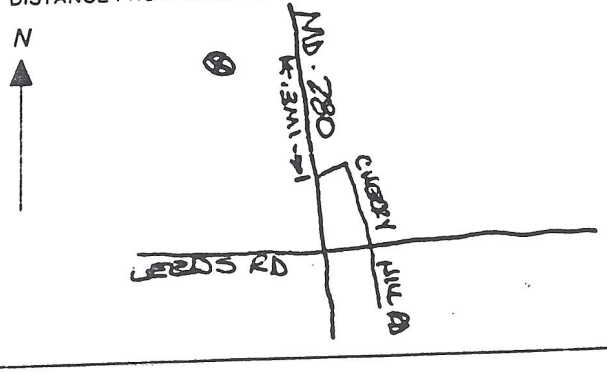
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER
1. DRILLED WELL
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 1120
N 670

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



SPECIAL CONDITIONS

ORIGINAL

DNR-214 (7-77)

C 1 8002 — SEQUENCE NO. (DNR USE ONLY) — (SEQ. NO.) — THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS

STATE OF MARYLAND
WATER RESOURCES ADMINISTRATION
TAWES STATE OFFICE BLDG., ANNAPOLIS, MD. 21401
WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WI IN 30 DAYS AFTER WELL COMPLET

FILL IN THIS FORM COMPLETELY

COUNTY NUMBER Replacement

DATE RECEIVED (DNR USE ONLY) JUN 07 1979

DATE WELL COMPLETED May 29 79 — 6 5 2 9 7 9 (15 20)

DEPTH OF WELL 400 (TO NEAREST FOOT) (22 26)

PERMIT NO. FROM "PERMIT TO DRILL WELL" C E - 7 3 - 2 9 2 3 (28 29 30 31 32 33 34 35 36 37)

DRILLERS IDENTIFICATION NO. 278

OWNER LAST NAME W.A. Gore Associates — FIRST NAME

STREET OR RFD P.O. Box 1220 — POST OFFICE Elkton Md.

WELL DESCRIPTION

WELL LOG

LEAVE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (USE ADDITIONAL SHEETS IF NECESSARY)	FEET FROM	FEET TO	CHECK IF WATER BEARING
Overburden	0	5	
Bun. Wooded Mica Schist	5	30	
Grey. Mica Schist	30	53	
Dame Fractured @ 53.0 Testing 6 GPM.	53	245	✓
Same Fractured 245 Testing 10Pm.	245	300	✓
Same Small Fracture @ 300.0 Testing 12GPM.	300	400	✓

GROUTING RECORD

WELL HAS BEEN GROUTED (CIRCLE APPROPRIATE BOX) YES (Y) NO (N) (44)

TYPE OF GROUTING MATERIAL (CIRCLE BOX): CEMENT (C M) (45 46) BENTONITE CLAY (B C) (45 46)

NO. OF BAGS 8 NO. OF POUNDS 750

GALLONS OF WATER 40

DEPTH OF GROUT SEAL (TO NEAREST FOOT)

FROM 6 (48 52) FT. TO 50 (54 58) FT.

(ENTER 0 IF FROM SURFACE)

CASING RECORD

CASING TYPES (INSERT APPROPRIATE CODE BELOW): STEEL (S T) CONCRETE (C O) PLASTIC (P L) OTHER (O T)

MAIN CASING TYPE	NOMINAL DIAMETER TOP (MAIN) CASING (NEAREST INCH)	TOTAL DEPTH OF MAIN CASING (NEAREST FOOT)
S T (60 61)	6 (63 64)	50 (66 70)

OTHER CASING (IF USED)

EACH CASING	DIAMETER (INCH)	DEPTH (FEET) FROM	TO

SCREEN RECORD

SCREEN TYPE OR OPEN HOLE (INSERT APPROPRIATE CODE BELOW): STEEL (S T) BRASS OR BRONZE (B R) OPEN HOLE (H O) PLASTIC (P L) OTHER (O T)

C 2 (1 2 3 SEQ. NO. 6)

EACH SCREEN	DEPTH (NEAREST WHOLE FOOT) FROM	TO
1 H O (7 8)	50 (11 16)	400 (17 21)
2 (23 24)	(25 30)	(32 38)
3 (39 39)	(41 45)	(47 51)

SLOTSIZE 1. ____ 2. ____ 3. ____

DIAMETER OF SCREEN ____ (NEAREST INCH) (56 57)

GRAVEL PACK FROM ____ TO ____

IF WELL DRILLED WAS A FLOWING WELL (CIRCLE ONE) (68 F)

MPA USE ONLY (NOT TO BE FILLED IN BY DRILLER) (71 72) (73) (74 75 76 OTHER DATA AVAILABLE)

CIRCLE APPROPRIATE BOXES

A — IF WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

E — ELECTRIC LOG OBTAINED

P — TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT I HAVE COMPLIED WITH ALL CONDITIONS STATED ON THE ABOVE-CAPTIONED "PERMIT TO DRILL WELL", AND THAT INFORMATION CONTAINED IN THIS REPORT IS TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

DRILLER'S NAME (PLEASE PRINT) Mark L Walton

SIGNATURE Mark L. Walton (On 4-4)

C 3 (1 2 3 SEQ. NO. 6)

PUMPING TEST

HOURS PUMPED (TO NEAREST HOUR) 4 (8 9)

PUMPING RATE (GALLONS PER MINUTE TO NEAREST GALLON) 12 (11 15)

METHOD USED TO MEASURE PUMPING RATE stop watch & time

WATER LEVEL: (DISTANCE FROM LAND SURFACE)

BEFORE PUMPING 4 (17 20) (NEAREST FOOT)

WHEN PUMPING 12 (22 25) (NEAREST FOOT)

TYPE OF PUMP USED (CIRCLE APPROPRIATE BOX) (FOR PUMPING TEST)

A AIR (27) P PISTON (27) T TURBINE (27)

C CENTRIFUGAL (27) R ROTARY (27) O OTHER (DESCRIBE BELOW) (27)

J JET (27) S SUBMERSIBLE (27)

PUMP INSTALLED

TYPE OF PUMP (WRITE APPROPRIATE LETTER IN BOX - SEE ABOVE: A, C, J, P, R, S, T, O) (29)

DRILLER WILL INSTALL PUMP (CIRCLE APPROPRIATE BOX) YES (Y) NO (N)

CAPACITY:

GALLONS PER MINUTE (TO NEAREST GALLON) (31 35)

PUMP HORSE POWER (37 41)

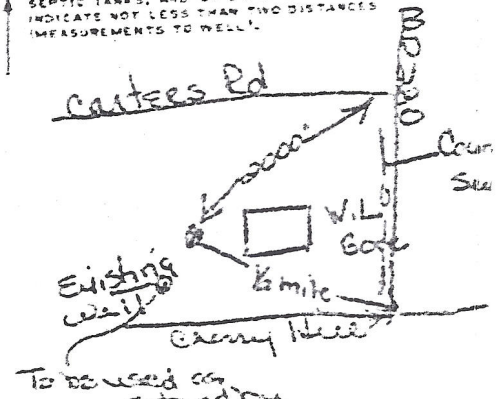
PUMP COLUMN LENGTH (NEAREST FOOT) (43 47)

CASING HEIGHT (CIRCLE APPROPRIATE BOX AND ENTER CASING HEIGHT)

+ ABOVE / − BELOW LAND SURFACE (NEAREST FOOT) 1 (49 50 51)

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS BUILDINGS, SEPTIC TANKS, AND OR OTHER LAND MARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL).



ORIGINAL

EMERGENCY NO. (If any) – CE 73 2923

B 1 | 9521 | SEQUENCE NO. (WRA USE ONLY)
(1 2 3 (SEQ. NO.) 6 — THIS NUMBER IS TO BE PUNCHED IN COLS. 2-6 ON ALL CARDS)

STATE OF MARYLAND
WATER RESOURCES ADMINISTRATION
TAWES STATE OFFICE BLDG., ANNAPOLIS, MARYLAND 21401
APPLICATION FOR PERMIT TO DRILL WELL

WRA PERMIT NUMBER: CE-73-2923
FILL IN THIS FORM COMPLETELY

REPLACEMENT

DATE RECEIVED (WRA USE ONLY): APR 20 1979
APR 18 1979

OWNER: CORE (COL 15 LAST NAME) W.L. & ASSOCS. (FIRST NAME) COL. 34
STREET OR RFD: MD 280 P.O. BOX 1220 (COL 36) COL. 55
POST OFFICE: ELKTON (COL 57) COL. 76

B 1 | CONTINUED (1 2 3 (SEQ. NO.) 6)

DRILLER INFORMATION
DATE: 5 APR 79 LICENSE NUMBER: 278 (77 80)
Max (FIRST NAME) WALTON (LAST NAME)
SIGNATURE (DRILLER): Max L. Walton

B 2 | (1 2 3 (SEQ. NO.) 6)

WELL INFORMATION
MAXIMUM PUMPING RATE (GALLONS PER MINUTE): 10 (8 12)
AVERAGE DAILY QUANTITY NEEDED (GALLONS PER DAY): 2700 (14 20)

USE FOR WATER (CIRCLE APPROPRIATE BOX)
- D — HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
- F — FARMING, AGRICULTURE, IRRIGATION
- I — INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOVERNMENT.
- M — MUNICIPAL WATER SUPPLY
- P — PRIVATE WATER COMPANY
  (M, P: MUST HAVE STATE HEALTH DEPT. APPROVAL)
- T — TEST

APPROXIMATE DEPTH OF WELL: 250 FEET (24 28)
APPROXIMATE DIAMETER OF WELL: 6 (NEAREST INCH)

METHOD OF DRILLING USED (CIRCLE APPROPRIATE METHOD)
BORED (OR AUGERED) JETTED DRIVEN
30-37 AIR-ROTARY (AIR-PERCUSSION) ROTARY (HYDRAULIC ROTARY)
CABLE REVERSE-ROTARY DRIVE-POINT
OTHER (DESCRIBE)

REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)
- N — THIS WELL WILL NOT REPLACE AN EXISTING WELL
- Y — THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- S — THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY
- D — THIS WELL WILL DEEPEN AN EXISTING WELL
  PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) (41 52)

NOT TO BE FILLED IN BY DRILLER (WRA USE ONLY)
APPROPRIATION PERMIT NUMBER: C E 7 3 A P 0 1 0 (53 59)
ENGINEER REVIEW DISTRICT NO. (65)
FORCE: CB (WRITE INITIALS IN BOX) (67 68)
CONDITIONS: A E N S G W Q C L U — W Q U (70 71 72 73 74 75 76 77 78 79)

B 4 | CONTINUED (1 2 3 (SEQ. NO.) 6)

HEALTH DEPARTMENT APPROVAL
41 S (STATE HEALTH (CIRCLE BOX))
DATE (MO. DAY YR.): 0 4 26 7 9 (43 48)
Cecil (COUNTY NAME) (COUNTY NO.)
Wm. R. Sumner (APPROVED BY)

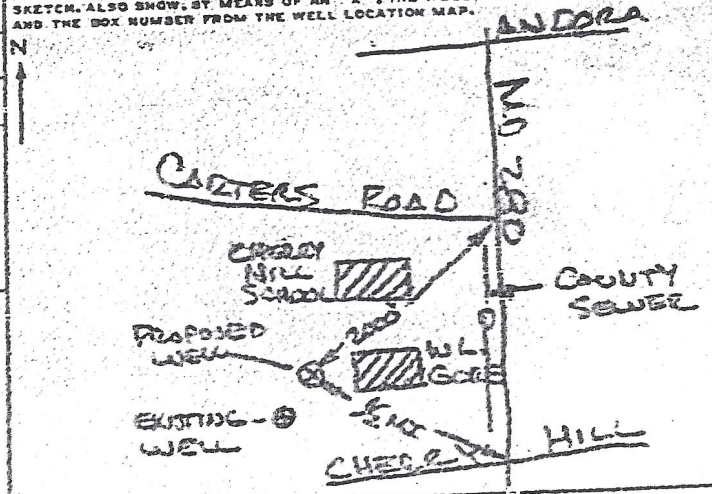
B 5 | SPECIAL CONDITIONS 6-03 (WRA USE ONLY) (1 2 3 (SEQ. NO.) 6) (3 83)

LOCATION OF WELL
B 3 | (1 2 3 (SEQ. NO.) 6)
COUNTY: CECIL (DO NOT ABBREVIATE COUNTY NAME) (6 21)
SUBDIVISION (23 42)
SECTION (44 46) LOT (48 50)
NEAREST TOWN: CHERRY HILL (52 71)
MILES FROM TOWN (ENTER 0 IF IN TOWN): 1/2 (73 76) M I (77 78)

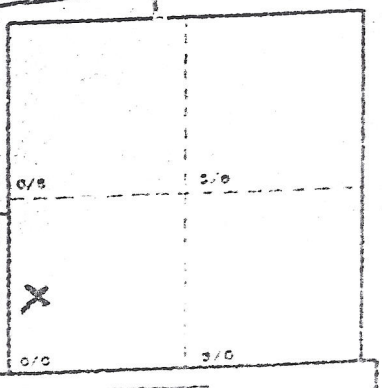
DIRECTION FROM TOWN (CIRCLE APPROPRIATE BOX)
B 4 | (1 2 3 (SEQ. NO.) 6)
N NORTH; E EAST; NE NORTHEAST; SE SOUTHEAST (8)
S SOUTH; W WEST; NW NORTHWEST; SW SOUTHWEST (8 9)

NEAR WHAT ROAD: MD 280 (11 30)
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX): NORTH (N) SOUTH (S) EAST (E) WEST (W) (32)
DISTANCE FROM ROAD (ENTER DISTANCE AND CIRCLE APPROPRIATE BOX): 1000 (24 37) F T M I (3839)

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS, ROADS AND STREAMS WITH NORTH IN THE DIRECTION OF THE ARROW, AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION OR STREAM CROSSING SHOWN ON THE SKETCH. ALSO SHOW, BY MEANS OF AN "X", THE WELL LOCATION IN THE BOX BELOW AND THE BOX NUMBER FROM THE WELL LOCATION MAP.



BOX NUMBER: E 1120 N 670
NORTH COORDINATE: 670000 (80 81 82 83 84 85)
EAST COORDINATE: 1120000 (87 88 89 90 91 92 93)
ELEVATION AT WELL HEAD (FEET) (45 86 87 88)



ORIGINAL

WR-WI-4 8/71

STATE OF MARYLAND
DEPARTMENT OF WATER RESOURCES
STATE OFFICE BLDG., ANNAPOLIS, MARYLAND 21401
WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 30 DAYS AFTER WELL COMPLETION

FILL IN THIS FORM COMPLETELY

COUNTY NUMBER

C 1 .01079 — SEQUENCE NO. (OWN USE ONLY) — (SEQ. NO.) (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

DATE RECEIVED (OWN USE ONLY) 092572

DATE WELL COMPLETED 9/25/72 (09 23 72)

DEPTH OF WELL 400 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" CT-72-0396

DRILLERS IDENTIFICATION NO.

OWNER Gore — LAST NAME — W.L. + Associates — FIRST NAME

STREET OR RFD 555 Paper Mill Rd. — POST OFFICE Newark, Del. 19711

WELL DESCRIPTION

WELL LOG

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (USE ADDITIONAL SHEETS IF NECESSARY)	FEET FROM	FEET TO	CHECK IF WATER BEARING
topsoil	0	10	
lt. shale	10	35	
lt gray granite	35	60	L
lt gray granite + quartz	60	98	L
lt gray granite	98	225	L
gray granite & blk. inclus.	225	350	L
Dk hard granite	350	400	

GROUTING RECORD
WELL HAS BEEN GROUTED (CIRCLE APPROPRIATE BOX) — YES (Y) NO (N)

TYPE OF GROUTING MATERIAL (CIRCLE BOX)

CEMENT (C N) — BENTONITE CLAY (B C)

NO. OF BAGS 6 — NO. OF POUNDS 540

GALLONS OF WATER 30

DEPTH OF GROUT SEAL (TO NEAREST FOOT)

FROM 0 FT. TO 42 FT.

(ENTER 0 IF FROM SURFACE)

CASING RECORD
CASING TYPES (INSERT APPROPRIATE CODE BELOW)

STEEL (S T) — CONCRETE (C O) — PLASTIC (P L) — OTHER (O T)

MAIN CASING TYPE	NOMINAL DIAMETER TOP (MAIN) CASING (NEAREST INCH)	TOTAL DEPTH OF MAIN CASING (NEAREST FOOT)
ST	6	42

OTHER CASING (IF USED)

DIAMETER (INCH)	DEPTH (FEET) FROM	TO

SCREEN RECORD
SCREEN TYPE OR OPEN HOLE (INSERT APPROPRIATE CODE BELOW)

STEEL (S T) — BRASS OR BRONZE (B R) — OPEN HOLE (H O) — PLASTIC (P L) — OTHER (O T)

C 2 (SEQ. NO.)

DEPTH (NEAREST WHOLE FOOT)

EACH SCREEN		FROM	TO
1	HO	42	400
2			
3			

SLOT SIZE 1. ____ 2. ____ 3. ____

DIAMETER OF SCREEN ____ (NEAREST INCH)

GRAVEL PACK ____ FROM ____ TO ____

IF WELL DRILLED WAS A FLOWING WELL CIRCLE BOX (F)

OWN USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T — TELESCOPE CASING; (E,R,O,G.) — LOG INDICATOR; W Q — OTHER DATA AVAILABLE

CIRCLE APPROPRIATE BOXES

A — A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

C — ELECTRIC LOG OBTAINED

P — TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT I HAVE COMPLIED WITH ALL CONDITIONS STATED ON THE ABOVE-CAPTIONED "PERMIT TO DRILL WELL", AND THAT INFORMATION CONTAINED IN THIS REPORT IS TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

DRILLERS NAME (PLEASE PRINT) Constantine DiFilippo

SIGNATURE Constantine DiFilippo Jr.

C 3 (SEQ. NO.)

PUMPING TEST

HOURS PUMPED (TO NEAREST HOUR) 2

PUMPING RATE (GALLONS PER MINUTE TO NEAREST GALLON) 7

METHOD USED TO MEASURE PUMPING RATE air

WATER LEVEL: (DISTANCE FROM LAND SURFACE)

BEFORE PUMPING 60' (NEAREST FOOT)

WHEN PUMPING 300' (NEAREST FOOT)

TYPE OF PUMP USED (CIRCLE APPROPRIATE BOX) (FOR PUMPING TEST)

AIR (A) — PISTON (P) — TURBINE (T) — CENTRIFUGAL (C) — ROTARY (R) — OTHER (DESCRIBE BELOW) (O) — JET (J) — SUBMERSIBLE (S)

PUMP INSTALLED
TYPE OF PUMP (WRITE APPROPRIATE LETTER IN BOX — SEE ABOVE: A, C, J, P, R, S, T, O)

DRILLER WILL INSTALL PUMP (CIRCLE APPROPRIATE BOX) — YES (Y) NO (N)

CAPACITY:

GALLONS PER MINUTE (TO NEAREST GALLON)

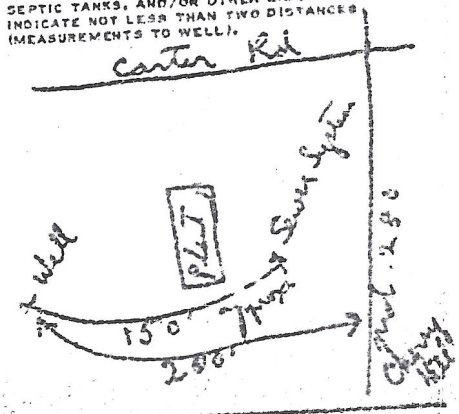
PUMP HORSE POWER

PUMP COLUMN LENGTH (NEAREST FOOT)

CASING HEIGHT
(CIRCLE APPROPRIATE BOX AND ENTER CASING HEIGHT)

ABOVE (+) / BELOW (−) LAND SURFACE 1' (NEAREST FOOT)

LOCATION OF WELL ON LOT
SHOW PERMANENT STRUCTURE SUCH AS BUILDINGS, SEPTIC TANKS, AND/OR OTHER LAND MARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL).



ORIGINAL

EMERGENCY NO. (If any) —

STATE OF MARYLAND
DEPARTMENT OF WATER RESOURCES
STATE OFFICE BLDG., ANNAPOLIS, MARYLAND 21401

APPLICATION FOR PERMIT TO DRILL WELL

DWR PERMIT NUMBER: CE-72-0386

FILL IN THIS FORM COMPLETELY

NEW

B 1 | 08396 | SEQUENCE NO. (DWR USE ONLY)

1 2 3 (SEQ. NO.) 6 — THIS NUMBER IS TO BE PUNCHED IN COLS. 4-8 ON ALL CARDS

DATE RECEIVED (DWR USE ONLY): 054272

OWNER: Moss 'L. Associates Inc. (COL. 13 LAST NAME) FIRST NAME COL. 34

STREET OR RFD: 555 Papermill Rd (COL. 35 – COL. 36)

POST OFFICE: Newark, Del. 19711 (COL. 37 – COL. 75)

DRILLER INFORMATION

B 1 CONTINUED (SEQ. NO.)

DATE: May 19, 1972 LICENSE NUMBER: 250 (77–80)

Constantine DiFilippo, Jr. (FIRST NAME / DRILLER / LAST NAME)

SIGNATURE: Constantine DiFilippo, Jr.

LOCATION OF WELL

B 3 (SEQ. NO.)

COUNTY: Cecil (DO NOT ABBREVIATE COUNTY NAME)

SUBDIVISION:

SECTION: LOT:

NEAREST TOWN: Elkton

MILES FROM TOWN (ENTER 0 IF IN TOWN): 8 — MI

WELL INFORMATION

B 2 (SEQ. NO.)

MAXIMUM PUMPING RATE (GALLONS PER MINUTE): 30

AVERAGE DAILY QUANTITY NEEDED (GALLONS PER DAY): 20,000

DIRECTION FROM TOWN (CIRCLE APPROPRIATE BOX)

B 4 (SEQ. NO.)

(N) NORTH — E EAST — N E NORTHEAST — S E SOUTHEAST

S SOUTH — W WEST — N W NORTHWEST — S W SOUTHWEST

NEAR WHAT ROAD: Md 280

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX): NORTH N — SOUTH S — EAST E — WEST (W)

DISTANCE FROM ROAD (ENTER DISTANCE AND CIRCLE APPROPRIATE BOX): approx. 250 — (FT) / MI

USE FOR WATER (CIRCLE APPROPRIATE BOX)

D DOMESTIC, HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)

F FARMING, AGRICULTURE, IRRIGATION

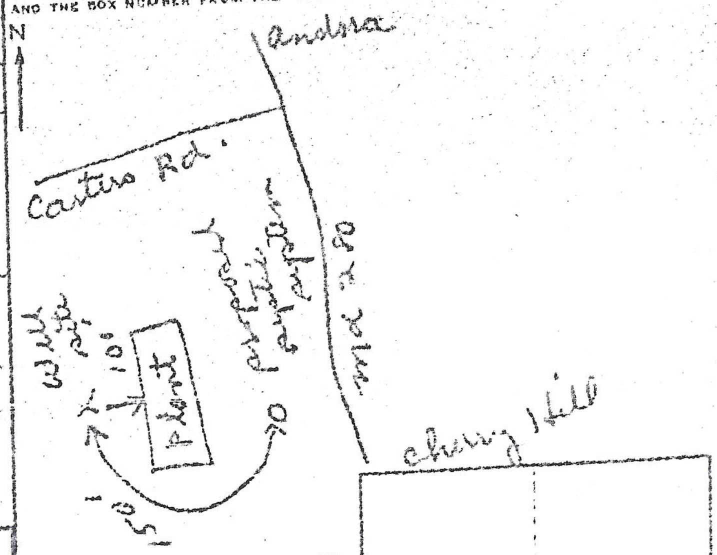
(I) INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOVERNMENT.

M MUNICIPAL WATER SUPPLY — MUST HAVE STATE HEALTH DEPT. APPROVAL

P PRIVATE WATER COMPANY

T TEST

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS, ROADS AND STREAMS WITH NORTH IN THE DIRECTION OF THE ARROW, AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION OR STREAM CROSSING SHOWN ON THE SKETCH. ALSO SHOW, BY MEANS OF AN "X", THE WELL LOCATION IN THE BOX BELOW, AND THE BOX NUMBER FROM THE WELL LOCATION MAP.



APPROXIMATE DEPTH OF WELL: 150' FEET

APPROXIMATE DIAMETER OF WELL: 6 3/8 (NEAREST INCH)

METHOD OF DRILLING USED (CIRCLE APPROPRIATE METHOD)

BORED (OR AUGERED) — JETTED — DRIVEN

30-37 AIR-ROTARY — (AIR-PERCUSSION) — ROTARY (HYDRAULIC ROTARY)

CABLE — REVERSE-ROTARY — DRIVE-POINT

OTHER (DESCRIBE)

REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)

(N) THIS WELL WILL NOT REPLACE AN EXISTING WELL

Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY

D THIS WELL WILL DEEPEN AN EXISTING WELL — PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE)

NOT TO BE FILLED IN BY DRILLER (DWR USE ONLY)

APPROPRIATION PERMIT NUMBER: CE72GAP010

ENGINEER REVIEW DISTRICT NO.

CONDITIONS: A E N S G W Q C L U — 6 Q

FORCE: JV (WHITE INITIALS IN BOX)

BOX NUMBER: 1120 / 670

NORTH COORDINATE: 670000

EAST COORDINATE: 1120000

ELEVATION AT WELL HEAD (FEET):

HEALTH DEPARTMENT APPROVAL

B 4 CONTINUED (SEQ. NO.)

Cecil (COUNTY NAME)

S STATE HEALTH (CIRCLE ONE)

APPROVED BY: [signature]

DATE: 0 1 1 9 7 2

(DWR USE ONLY)

B 5 (SEQ. NO.) SPECIAL CONDITION CODES

108272

ORIGINAL