



B 1 01118 SEQUENCE NO. (DP USE ONLY)  
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

STATE OF MARYLAND  
 PERMIT TO DRILL WELL  
 please print or type

STATE PERMIT NUMBER  
 HO-92-0416  
 fill in this form completely

Date Received (APA) 07/15/93  
 OWNER INFORMATION  
 O'NEILL TOM  
 1935 FREDERICK ROAD  
 CATONSVILLE MD 21228

LOCATION OF WELL  
 HOWARD COUNTY  
 HEADQUARTERS  
 SECTION 44 46 LOT 2 48 50  
 MT. AIRY  
 MILES FROM TOWN (enter 0 if in town) 3 MI

DRILLER INFORMATION  
 Robert L. Cline  
 Cline and Duvall, Inc.  
 8073 Hillmark Ct Frederick  
 Robert L. Cline 7-12-93

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)  
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
 622 West Watersville  
 DISTANCE FROM ROAD 800 FT  
 ENTER FT or MI 87

WELL INFORMATION  
 APPROX. PUMPING RATE (GAL. PER MIN.) 5  
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 300

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)

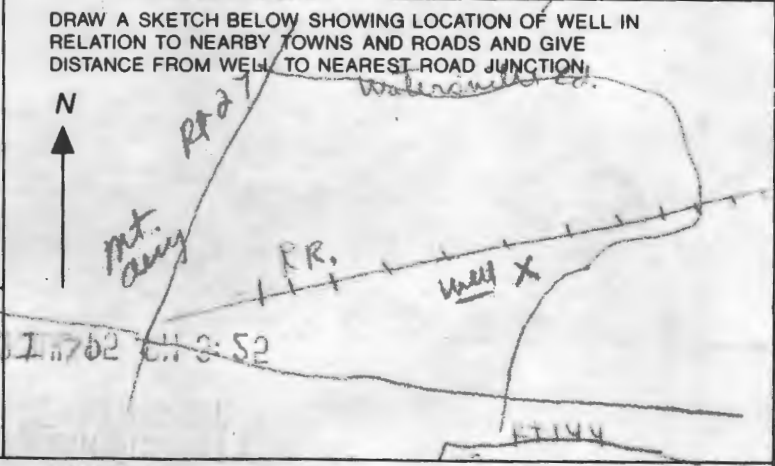
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL  
 Howard A42038  
 COUNTY NAME COUNTY NO.  
 STATE SIGNATURE DATE ISSUED 080593 Mark E. Rifkin 8/5/94  
 NORTH GRID 558 000 EAST GRID 0766 000

APPROXIMATE DEPTH OF WELL 250 FEET  
 APPROXIMATE DIAMETER OF WELL 6 INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X  
 SOURCES OF DRILLING WATER  
 1. Well  
 WRITE THE BOX NUMBER FROM THE MAP HERE  
 E 7666  
 N 5588

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 DEEPEMED 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 DEEPEM AN EXISTING WELL  
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)



Not to be filled in by driller (OEP USE ONLY)  
 APPROP. PERMIT NUMBER GAP  
 FORCE MR PERMIT No. HO-92-0416

SPECIAL CONDITIONS H-744-1320 W-715-7594

**FIELD DATA SHEET**  
**HOWARD COUNTY WELL YIELD TEST**

Well Permit No. HO - 92-0416  
 Location of property (road) W. Watersville Rd  
 Subdivision HEADQUARTERS Lot 2 Block 156 Plat 1 Sec. 1  
 Well Driller Cline + Duvall Owner TOM O'NEILL

Depth of well 300  
 Distance of measuring point (M.P.) above ground 1  
 Static water level (S.W.L.) below M.P. 110

**I. High rate pumping -- reservoir drawdown**

Time pump started 8:45 Pumping rate 10  
 Total time 30 MIN to reach pumping water level 156 ft. below M.P.

**II. Recovery pump test data - observations to be recorded every 15 minutes**

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
8:45	110	6 SECONDS		10
9:00	131	7 "		8.5
9:14	154	7 "		8.5
9:15	156	19 "		3.15
9:30	156	19 "		3.15
9:45	156	19 "		3.15
10:00	156	19 "		3.15
10:15	156	19 "		3.15
10:30	156	19 "		3.15
10:45	156	19 "		3.15
11:00	156	19 "		3.15
11:15	156	19 "		3.15
11:30	156	19 "		3.15
11:45	156	19 "		3.15
12:00	156	19 "		3.15
12:15	156	19 "		3.15
12:30	156	19 "		3.15
12:45	157	19 "		3.15
1:00	157	19 "		3.15
1:15	157	19 "		3.15
1:30	157	19 "		3.15
1:45	157	19 "		3.15
2:00	157	19 "		3.15
2:15	158	19 "		3.15





Headquarters  
SUBDIVISION: W. Watersville Rd

A 42038

LOT NUMBER: 2

DRY WELL OR DRY WELL AND TRENCH

	<u>Septic Tank</u>	<u>Minimum Total Square Feet</u>
3 bedroom	1000 gallon	_____ sq. ft./bedroom
4 bedroom	1250 gallon	_____
5 bedroom	1500 gallon	_____

Inlet \_\_\_\_\_ feet below original grade.  
Bottom maximum depth \_\_\_\_\_ feet below original grade.  
Effective area begins at \_\_\_\_\_ feet below original grade.

NOTE: If trench is used to make up absorbent area, run the trench on level ground and leave a 5-foot earth buffer between dry well and trench. No trench is to exceed 100 feet in length. Trench inlet to be same as dry well, with \_\_\_\_\_ feet of stone below distribution pipe.

TRENCHES

300 sq. ft./bedroom

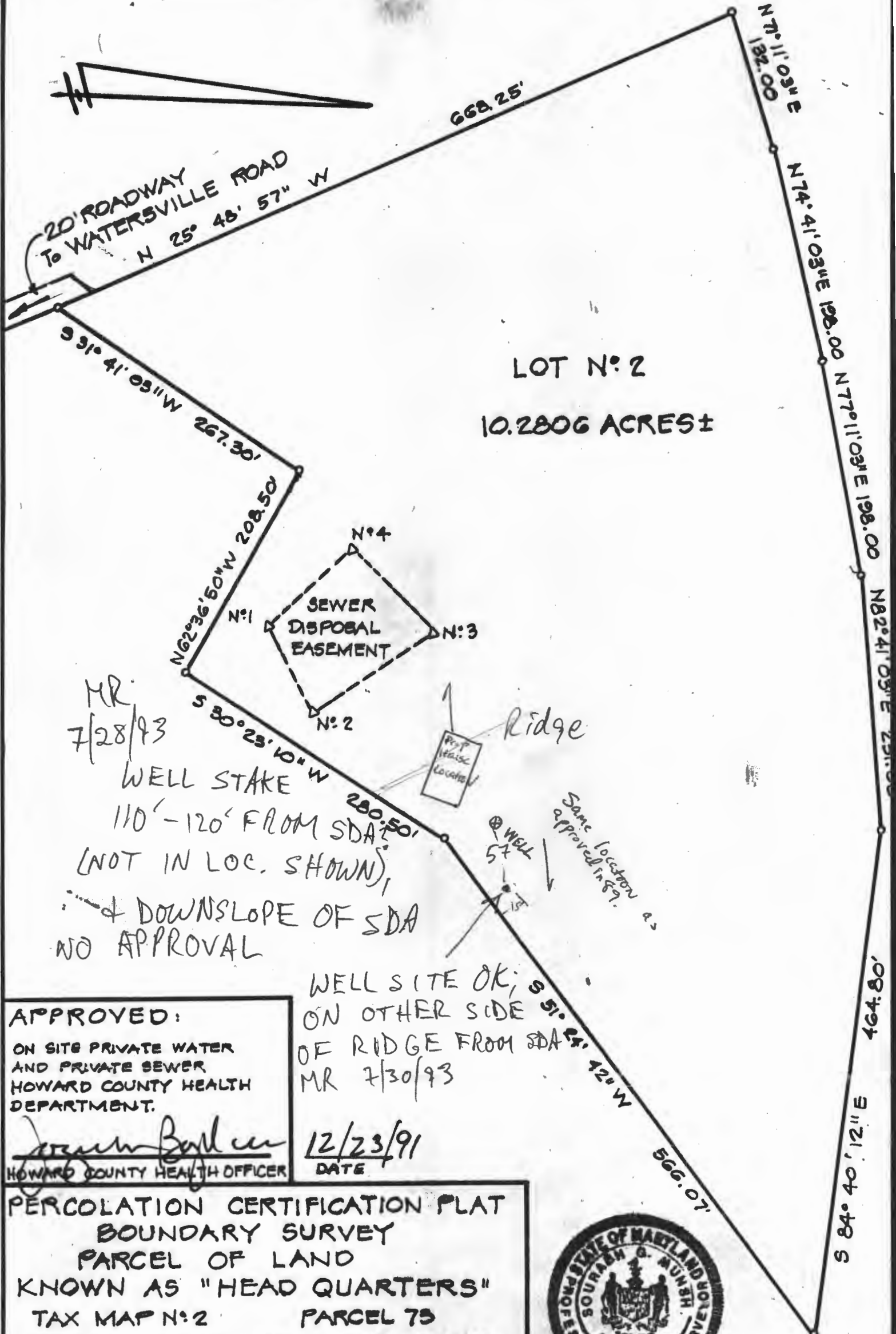
Trench to be 3 wide.  
Inlet 1 1/2 feet below original grade.  
Bottom maximum depth 3 feet below original grade.  
Effective area begins at 1 1/2 feet below original grade.  
1 1/2 feet of stone below distribution pipe.

- NOTE:
- (1) No trench to exceed 100 feet in length.
  - (2) If more than one trench used, a distribution box is required.
  - (3) Trenches to be installed on level ground.
  - (4) Call for inspection of trench before gravel is installed.
  - (5) Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank and drywell.
  - (6) If a garbage disposal is used, increase septic tank capacity by 50% and increase absorbent sidewall area by 22%.

LOCATION: START THE FIRST TRENCH 150' OFF THE 208.50' LOT LINE AND 75' OFF THE 280.50' LOT LINE. RUN TRENCHES TOWARD THE 208.50' LOT LINE ON CONTOUR.

6/3/91 MR

VERIFY TRENCH DIRECTION  
8/20/93 MR AT BP



LOT N<sup>o</sup> 2  
10.2806 ACRES ±

MR.  
7/28/93

WELL STAKE  
110'-120' FROM SDA  
(NOT IN LOC. SHOWN),  
↓ DOWNSLOPE OF SDA  
NO APPROVAL

WELL SITE OK;  
ON OTHER SIDE  
OF RIDGE FROM SDA  
MR 7/30/93

**APPROVED:**  
ON SITE PRIVATE WATER  
AND PRIVATE SEWER  
HOWARD COUNTY HEALTH  
DEPARTMENT.  
*Joseph Boyler*  
HOWARD COUNTY HEALTH OFFICER

12/23/91  
DATE

PERCOLATION CERTIFICATION PLAT  
BOUNDARY SURVEY  
PARCEL OF LAND  
KNOWN AS "HEAD QUARTERS"  
TAX MAP N<sup>o</sup> 2 PARCEL 75  
4TH ELECTION DIST. HOWARD COUNTY, MD.  
SCALE: 1" = 100' DECEMBER, 1991



*Sourabh Munkh*

Prepared By  
DON LYNCH ASSOC. INC.  
4907 HARFORD ROAD

