

B 1 0313

SEQUENCE NO. (OEP USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please print or type

OEP PERMIT NUMBER

SM-81-0119

fill in this form completely

Date Received

NOV 19 1982

(OEP Use Only)

B 3

LOCATION OF WELL

COUNTY St. Marys SUBDIVISION Patuxent Park SECTION 29 LOT 48 NEAREST TOWN Lexington Park MILES FROM TOWN 1.8

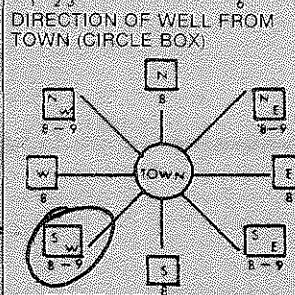
OWNER INFORMATION

MD GEOLOGICAL SURVEY Last Name 15 Owner 34 Name 7111 W 40th St Baltimore MD 21211

B 1 Continued DRILLER INFORMATION

A.C. SCHULTES III 291 Driller's Name 77 License No. 80 A.C. SCHULTES & SONS, INC. Firm Name 664 S. Evergreen Ave. Address Woodbury, NJ 08096 Signature A.C. Schultes III 11/29/82 Date

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Rt. 246 NEAR WHAT ROAD ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) SOUTH 225 DISTANCE FROM ROAD (CIRCLE APPROPRIATE BOX) 225

B 2 WELL INFORMATION

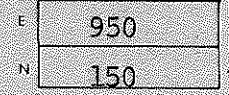
APPROX. PUMPING RATE (GAL. PER MIN.) NONE AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) NONE

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

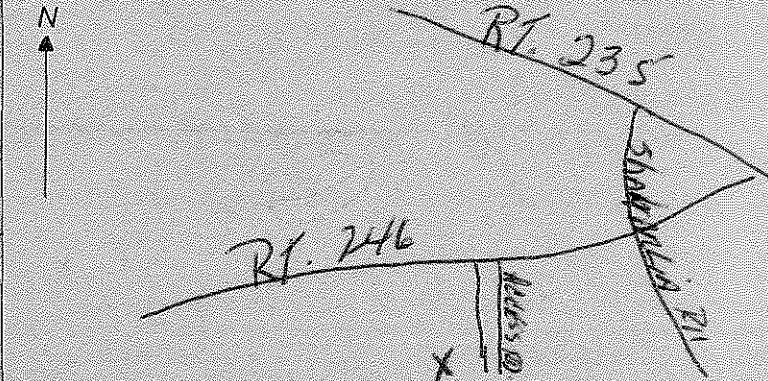
SOURCES OF DRILLING WATER

- 1. 2. 3.

WRITE THE BOX NUMBER FROM THE MAP HERE



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



- USE FOR WATER (CIRCLE APPROPRIATE BOX) D HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) E 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 3200 FEET

APPROXIMATE DIAMETER OF WELL 4" NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (OR AUGERED) JETTED JETTED & DRIVEN AIR ROTARY AIR PERCUSSION ROTARY (HYDRAULIC ROTARY) CABLE DRIVE POINT other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY 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 HEALTH DEPARTMENT APPROVAL

St. Mary's COUNTY NAME 923-82 COUNTY NO

OEP SIGNATURE DATE ISSUED STATE HEALTH SIGNATURE

1110382 W.E. Ra NORTH GRID 150 EAST GRID 0950 EXPIRES

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

APPROX. PERMIT NUMBER GAP

FORCE AR WRITE INITIALS IN BOX PERMIT No. 917-81-0119

B 5 SPECIAL CONDITIONS

SEQUENCE NO. (OEP USE ONLY) **4242**  
 COUNTY NUMBER **923-82**  
 DATE RECEIVED (OEP USE ONLY) **JAN 24 1983**  
 DATE WELL COMPLETED **01/05/83**  
 DEPTH OF WELL **SM DP 84**  
 PERMIT NO. FROM "PERMIT TO DRILL WELL" **SM-181-0119**  
 (TO NEAREST FOOT) **2681**

OWNER **Md. Geological Survey**  
 STREET OR RFD **711 W. 40th Street** TOWN **Baltimore, Md. 21211**  
 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 TO Check if water bearing

SEE ATTACHED SHEETS

**GROUTING RECORD**  
 WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**  
 TYPE OF GROUTING MATERIAL  
 CEMENT **CM** BENTONITE CLAY **BC**  
 NO. OF BAGS **1100** NO. OF POUNDS **110,000**  
 GALLONS OF WATER **6,600**  
 DEPTH OF GROUT SEAL (to nearest foot) from **1100** ft. to **2681** ft.  
 (enter 0 if from surface)

**CASING RECORD**  
 casing types insert appropriate code below  
**ST** **CO**  
 STEEL CONCRETE  
**PL** **OT**  
 PLASTIC OTHER  
 MAIN CASING TYPE **S** **T** Nominal diameter (top/main) casing (nearest inch) **6"** Total depth of main casing (nearest foot) **246**

**OTHER CASING** (if used) diameter inch **4** depth (feet) from **246** to **831**

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

**EACH CASING**  
**DEPTH** (nearest ft.) **831** **856**  
**862** **867**  
**897** **912**  
 SLOT SIZE **0** **2** **0**  
 DIAMETER OF SCREEN **4"** (NEAREST INCH)

GRAVEL PACK **800** **923**  
 IF WELL DRILLED WAS FLOWING WELL CIRCLE BOX **F**

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)  
 T (E.R.O.S.) **W O**  
**TELESCOPE CASING** **LOG INDICATOR** **OTHER DATA**

**PUMPING TEST**  
 HOURS PUMPED (nearest hour) **24**  
 PUMPING RATE (gal. per min. to nearest gal.) **200**  
 METHOD USED TO MEASURE PUMPING RATE **M-scope**  
 WATER LEVEL (distance from land surface) BEFORE PUMPING **115** WHEN PUMPING **165**  
 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** YES **Y** NO **N**  
 DRILLER WILL INSTALL PUMP (CIRCLE APPROPRIATE BOX)  
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE  
 TYPE OF PUMP (WRITE APPROPRIATE LETTER IN BOX - SEE ABOVE: (A, C, J, P, R, S, T, O)) **□**  
 CAPACITY: GALLONS PER MINUTE (to nearest gallon) **N/A**  
 PUMP HORSE POWER **N/A**  
 PUMP COLUMN LENGTH (nearest ft.) **N/A**  
 CASING HEIGHT (circle appropriate box and enter casing height) **+** above **-** below **3** (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)

CIRCLE APPROPRIATE BOX  
**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. **291**  
**A.C. SCULTES III**  
 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)  
**A.C. Scultes III**  
 SITE SUPERVISOR (sign of driller or journeyman responsible for sitework if different from permittee)

GROUND		3' LEVEL	WELL LOG		FEET FROM GROUND SURFACE 0 TO		NAME OF OWNER	
TOTAL DEPTH - FT. 923'0"		6" Pipe 246'4"	Fine sand	0	12	MARYLAND GEOLOGICAL SURVEY		Job # 19307
			Clay gravel & stone	12	82	Location Lexington Park, MD		
			Green marl & shells	82	327	Well No.		
			Clay & stones	327	347	Hrs. Pumped 24		
			Sandy shells	347	402	Capacity G.P.M. 200		
			Clay	402	457	Static Level 115		
			Clay & black sand	457	493	Pumping Level 165		
			Clay, silty	493	521	Specific Capacity 4		
			Clay	521	546	Diameter of Well 6" x 4"		
			Sand	546	551	Depth of Well (ground) 920'		
			Clay shells & sand	551	589	Length of Casing 923'0"		
			Gravel	589	622	Distance to Top of Packer (gr.) None		
			Clay	622	635	Type Screen S.S. Johnson		
			Sand & gravel	635	647	Size of Screen 4" Pipe Size		
			Clay	647	674	Length of Screen 45.0		
Sand, hard	674	692	Top Screen Fitting to 4" pipe					
Clay	692	701	Bottom Screen Fitting to 4" pipe cellar					
Clay, red	701	722	Blank 35'0"					
Gray, silty clay	722	762	Slot Size .020					
Clay & streaks of sand	762	821	Drilling Machine No. #1					
Sand, laminated	821	867	Driller James Steffen					
Clay	867	902	Gravel #1					
Sand	902	926	Bags of Cement 1100					
Clay, hard	926	1054	Date Well Completed 1-5-83					
Clay & lignite	1054	1059						
Sand	1059	1092						

Rotary Table approx. 3' above ground level

# A.C. SCHULTES & SONS, INC. SM 81-0119

## SINGLE CASE WELL

SM DF 84

	GROUND	LEVEL	WELL LOG	FEET FROM GROUND SURFACE 0 TO	NAME OF OWNER
TOTAL DEPTH - FT.					MARYLAND GEOLOGICAL SURVI
			Clay	1092 1137	Job # 19307
			Sand	1137 1141	Location Lexington Park, MD
			Clay, hard	1141 1194	Well No.
			Sand	1194 1234	Hrs. Pumped
			Clay, hard	1234 1252	Capacity G.P.M.
			Sand	1252 1277	Static Level
			Clay	1277 1447	Pumping Level
			Sand	1447 1472	Specific Capacity
			Clay	1472 1507	Diameter of Well
			Sand	1507 1520	Depth of Well (ground)
			Clay	1520 1947	Length of Casing
			Sand, hard packed	1947 1957	Distance to Top of Packer (gr.)
		← CASING →	Clay	1957 2002	Type Screen
			Sand, silty	2002 2046	Size of Screen
		↑ STRAINER ↓	Silty clay	2046 2067	Length of Screen
			Sand	2067 2107	Top Screen Fitting
			Clay, hard	2107 2165	Bottom Screen Fitting
			Sand, silty	2165 2334	Blank
			Clay, silty	2334 2382	Slot Size
			Clay, hard drilling	2382 2472	Drilling Machine No.
			Sand, hard packed	2472 2489	Driller
			Clay	2489 2622	Gravel
			Weathered rock	2622 2630	Bags of Cement
			Rock	2630 2682	Date Well Completed

Rotary Table approx. 3' above ground level