

DATE RECEIVED (DWR USE ONLY)

OWNER County Commissioners of Charles County (Eleanor P. Garrico, Pres.)  
 COL 15 LAST NAME FIRST NAME COL. 34

STREET OR RFD Charles County Dept. of Public Works  
 COL 36 COL. 55

POST OFFICE P. O. Box B, La Plata, Maryland 20646  
 COL 57 COL. 76

8-13

**B 1** CONTINUED **DRILLER INFORMATION**

1 2 3 (SEQ. NO.) 6

DATE June 12, 1979 LICENSE NUMBER 260  
 77 80

Robert R. Peters  
 FIRST NAME DRILLER LAST NAME

SIGNATURE [Signature]

**B 2** **WELL INFORMATION**

1 2 3 (SEQ. NO.) 6

MAXIMUM PUMPING RATE (GALLONS PER MINUTE) 500  
 8 12

AVERAGE DAILY QUANTITY NEEDED (GALLONS PER DAY) 500,000  
 14 20

**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

**B 3** **LOCATION OF WELL**

1 2 3 (SEQ. NO.) 6

COUNTY Charles  
 (DO NOT ABBREVIATE COUNTY NAME) 21

SUBDIVISION Pinefield 42

SECTION 44 LOT 46 48 50

NEAREST TOWN WALDORF 71

MILES FROM TOWN (ENTER 0 IF IN TOWN) 4 M I 73 76 77 78

**B 4** **DIRECTION FROM TOWN**  
 (CIRCLE APPROPRIATE BOX)

1 2 3 (SEQ. NO.) 6

N NORTH  E EAST  NE NORTHEAST  SE SOUTHEAST

S SOUTH  W WEST  NW NORTHWEST  SW SOUTHWEST

NEAR WHAT ROAD HICKORY VALLEY DRIVE  
 11 NORTH SOUTH EAST WEST 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  N  S  E  W  FT

DISTANCE FROM ROAD (ENTER DISTANCE AND CIRCLE APPROPRIATE BOX) 300 FT M I 34 37 38 39

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.

N

RG Co.  
CH Co.

HICKORY VALLEY DR.

PINEWOOD DR.

X SKETCH ATTACHED

APPROXIMATE DEPTH OF WELL 1500' FEET  
 24 28

APPROXIMATE DIAMETER OF WELL 12" (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 DEEPEINED 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

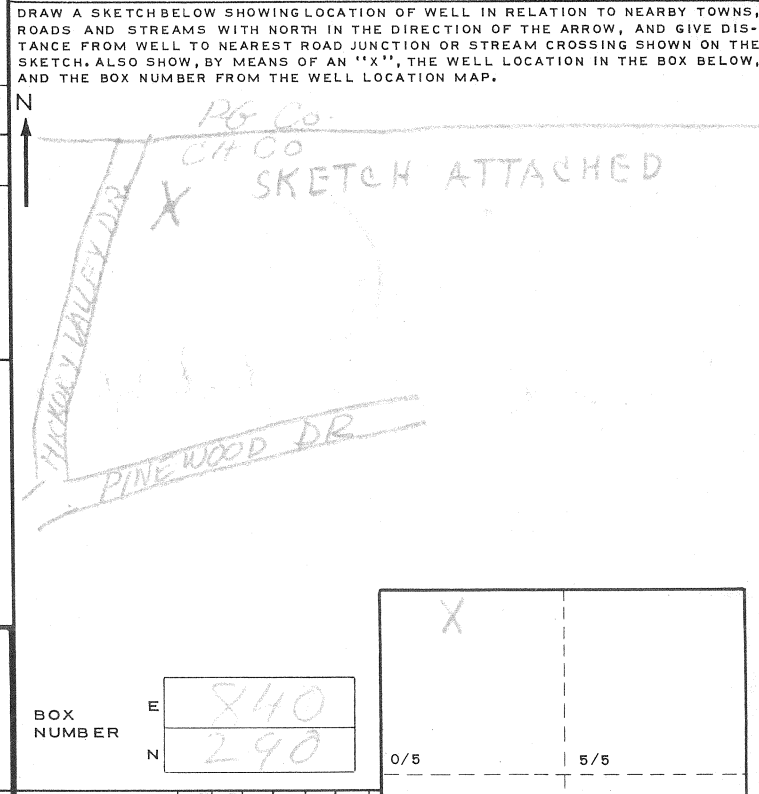
D THIS WELL WILL DEEPEIN AN EXISTING WELL. PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) \_\_\_\_\_

41 52

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

APPROPRIATION PERMIT NUMBER CH79CAP021 ENGINEER REVIEW DISTRICT NO. \_\_\_\_\_

FORCE CA WRITE INITIALS IN BOX 67 68 CONDITIONS A W G U 70 71 72 73 74 75 76 77 78 79



**B 4** CONTINUED **HEALTH DEPARTMENT APPROVAL**

1 2 3 (SEQ. NO.) 6

41  S STATE HEALTH (CIRCLE BOX) COUNTY NAME Charles COUNTY NO. \_\_\_\_\_

DATE 6-25-79 MO. DAY YR. APPROVED BY Raymond Anderson, Jr.

43 48

NORTH COORDINATE 2991000  
 50 51 52 53 54 55

EAST COORDINATE 0742000  
 57 58 59 60 61 62 63

ELEVATION AT WELL HEAD (FEET) \_\_\_\_\_ 65 66 67 68

0/0 5/0

**B 5** SPECIAL CONDITIONS 8-63 (DWR USE ONLY)

1 2 3 (SEQ. NO.) 6

SEQUENCE NO. (WRA USE ONLY) **6776**

1 2 3 (SEQ. NO.) 6  
(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 WITHIN 30 DAYS AFTER WELL COMPLETION

FILL IN THIS FORM COMPLETELY

COUNTY NUMBER **Ch-BF-144**

DATE RECEIVED (WRA USE ONLY) \_\_\_\_\_

DATE WELL COMPLETED **2/1/80**

DEPTH OF WELL **705** (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" **07-75-2423**

DRILLERS IDENTIFICATION NO. **RF 1401**

OWNER **County Commissioners of Charles County, Charles County Dept. of Public Works**

STREET OR RFD **P. O. Box B** POST OFFICE **La Plata, MD 20646**

**WELL LOG**

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

DESCRIPTION (USE ADDITIONAL SHEETS IF NECESSARY)	FEET		CHECK IF WATER BEARING
	FROM	TO	
Please see attached sheets.			

**GROUTING RECORD**

WELL HAS BEEN GROUTED (CIRCLE APPROPRIATE BOX) **Y**

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

NO. OF BAGS **60** NO. OF POUNDS **3,760**

GALLONS OF WATER **360**

DEPTH OF GROUT SEAL (TO NEAREST FOOT)  
 FROM **0** FT. TO **170** FT.

**CASING RECORD**

INSERT APPROPRIATE CODE BELOW

STEEL **S T** CONCRETE **C O**  
 PLASTIC **P L** OTHER **O T**

MAIN CASING TYPE **S T** NOMINAL DIAMETER TOP (MAIN) CASING (NEAREST INCH) **12"** TOTAL DEPTH OF MAIN CASING (NEAREST FOOT) **481'-6"**

**OTHER CASING (IF USED)**

DIAMETER (INCH) **12"** DEPTH (FEET) FROM **720** TO **705'**

DIAMETER (INCH) **24"** DEPTH (FEET) FROM **0** TO **55'**

**SCREEN RECORD**

INSERT APPROPRIATE CODE BELOW

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

**DEPTH (NEAREST WHOLE FOOT)**

FROM	TO
1	21
2	21
3	21

SLOT SIZE 1, **030** 2, **030** 3, **030**

DIAMETER OF SCREEN **12" ID** (NEAREST INCH)

GRAVEL PACK **450'** **710'**

IF WELL DRILLED WAS A FLOWING WELL CIRCLE BOX **68 F**

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

TELESCOPE CASING **70** LOG INDICATOR **72** OTHER DATA AVAILABLE **74 75 76**

**PUMPING TEST**

HOURS PUMPED (TO NEAREST HOUR) **12**

PUMPING RATE (GALLONS PER MINUTE TO NEAREST GALLON) **520**

METHOD USED TO MEASURE PUMPING RATE **water meter**

WATER LEVEL: (DISTANCE FROM LAND SURFACE)  
 BEFORE PUMPING **203'-5"** (NEAREST FOOT) **17** **20**  
 WHEN PUMPING **241'-2"** (NEAREST FOOT) **22** **25**

TYPE OF PUMP USED (CIRCLE APPROPRIATE BOX) (FOR PUMPING TEST)  
**A** AIR **P** PISTON **T** TURBINE  
**C** CENTRIFUGAL **R** ROTARY **O** OTHER (DESCRIBE BELOW)  
**J** JET **S** SUBMERSIBLE

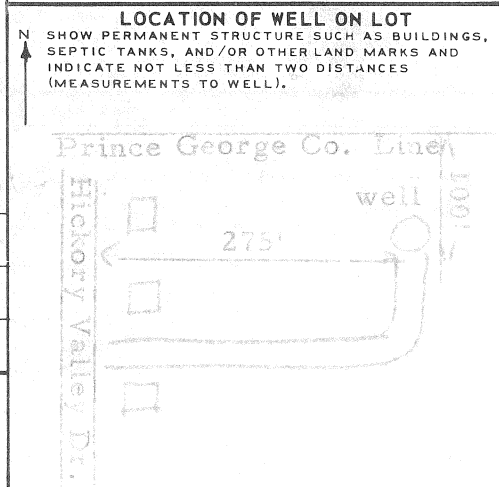
**PUMP INSTALLED**

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) **Y**

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 } LAND SURFACE (NEAREST FOOT) **2'-0"**  
**-** BELOW } **49** **51**



**CIRCLE APPROPRIATE BOXES**

**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 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 **Robert R. Peters**

SIGNATURE **Robert R. Peters**

PINEFIELD PRODUCTION WELL  
Charles County, Maryland  
Formation Log

<u>Total Depth Of All Strata</u>	<u>Check if Water Bearing</u>	<u>Formations</u>
0' - 7'		White and red clay
7' - 25'		Large gravel and red clay
25' - 35'		Gravel and red clay
35' - 60' ✓		Large gravel
60' - 80'		Large gravel and gray clay
80' - 100'		Gray clay
100' - 120'		Clay
120' - 140'		Clay
140' - 160'		Large gravel and clay
160' - 170'		Clay, brown sand and some gravel
170' - 180'		Clay and brown sand
180' - 200'		Clay and brown sand
200' - 210'		Clay and brown sand
210' - 220'		Clay and brown sand
220' - 230' ✓		Sand and large gravel
230' - 240' ✓		Sand and gravel
240' - 250' ✓		Sand and gravel
250' - 260' ✓		Sand
260' - 270' ✓		Sand and rocks
270' - 280' ✓		Sand and small gravel
280' - 290' ✓		Sand and small gravel
290' - 300' ✓		Sand and small gravel
300' - 310'		Clay and fine sand
310' - 320'		Clay and fine sand
320' - 330' ✓		Sand
330' - 340' ✓		Black and gray sand
340' - 350' ✓		Black and gray sand and shells
350' - 360' ✓		Black and gray sand and shells
360' - 380' ✓		Black and gray sand and shells
380' - 390'		Fine sand
390' - 410'		Fine sand (cored 400'-410') #1
410' - 420'		Fine sand and some shells
420' - 430'		Fine sand (Cored 420'-430') #2
430' - 440'		Fine sand and shells
440' - 500' ✓		Fine sand and shells
500' - 510' ✓		Clay and fine sand
510' - 540' ✓		Coarse sand (Cored 520'-530') #3
540' - 550' ✓		Sand
550' - 570' ✓		Black and gray sand
570' - 580' ✓		Coarse sand
580' - 590' ✓		Fine black and gray sand and shells
590' - 630' ✓		Fine black and gray sand and shells (Cored 620-630) #4
630' - 640'		Fine gray and brown sand

PINEFIELD PRODUCTION WELL  
Formation Log  
Page 2

<u>Total Depth</u> Of All Strata	<u>Check if</u> <u>Water Bearing</u>	<u>Formations</u>
640'- 650'		Fine gray and brown sand
650'- 720' ✓		Small gravel and sand (Cored 693'-703') #5
720'- 730'		Fine sand
730'- 850'		Red clay and sand (Cored 818'-828') #6, (828'-838') #7
850'- 860'		Fine brown sand, glauconite and red clay
860'- 870'	✓	Fine salt and pepper sand
870'- 880'		Fine salt and pepper sand some lignite and gray clay
880'- 890'		Gravel, sand, and clay (Cored 880'-890') #8
890'- 900'		Gravel, sand, and clay
900'- 920'		Red clay
920'- 940'		Red clay, salt and pepper sand and gravel
940'- 960'		Red clay
960'-1060'		Fine salt and pepper sand and clay (Cored 1000'-1016) #9
1060'-1070'		Fine sand
1070'-1080'		Sand and clay (Cored 1068'-1078') #10
1080'-1090'		Sand and clay
1090'-1100'	✓	Sand
1110'-1160'		Sand and clay
1160'-1170'		Clay
1170'-1180'		Sand and clay
1180'-1190'		Sand and clay
1190'-1200'		Sand and some clay (Cored 1187'-1197') #11
1200'-1270'		Sand (Cored 1218'-1228') #12
1270'-1280'		Clay
1280'-1290'		Clay
1290'-1350'		Clay (Cored 1310'-1320') #13
1350'-1390'		Clay
1390'-1430'		Clay (Cored 1415'-1425') #14
1430'-1440'		Clay and some quartz, hard
1440'-1450'		Fine gray clay
1450'-1460'		Fine sand and gray clay
1460'-1480'		Sand and clay
1480'-1490'		Sand and some clay
1490'-1520'		Sand (Cored 1516'-1526') #15
1520'-1530'		Sand and clay
1530'-1580'		Sand and clay
1580'-1600'		Sand, some clay
1600'-1620' ✓		Sand (Cored 1615'-1625') #16
1620'-1630'		Clay
1630'-1640'		Gravel and clay
1640'-1660'		Clay

PINEFIELD PRODUCTION WELL  
Formation Log  
Page 3

<u>Total Depth Of All Strata</u>	<u>Check if Water Bearing</u>	<u>Formations</u>
1660'-1710'		Fine sand
1710'-1750'		Fine sand (Cored 1712'-1722') #17
1750'-1800'		No samples
1800'-1810'		Fine sand and some clay
1810'-1830'		Clay
1830'-1850'	✓	Sand
1850'-1860'	✓	Coarse sand
1860'-1870'		Clay
1870'-1920'		Fine sand and clay