W

W'

POPES CREEK ROAD

LA PLATA

WALDORF

BRANDYWINE

MARYVALE ESTATES

BOWIE-BELAIR

CROFTON

SPARROWS POINT

Ch-De32 ALT.=155 LITHO-ELECTRIC LOG

Ch-Ce 35 ALT.=160 LITHO-ELECTRIC LOG

Ch-Bf 131 ALT.=210 LITHO-ELECTRIC LOG

Ch-Bf 97 ALT.=220 LITHO-ELECTRIC LOG

Ch-Bf 127 ALT.=215 LITHO-ELECTRIC LOG

Pg-Fd 62 WASHINGTON GAS LIGHT (ROBINSON A-0#2) ALT.=235 LITHO-ELECTRIC LOG

Pg-Ee 49 WASHINGTON GAS (ROBERTS A-0#2) ALT.=215 LITHO-ELECTRIC LOG

Pg-Ee 52 ALT.=175 LITHO-ELECTRIC LOG

PG-Cf 53 ALT.=115 LITHO-ELECTRIC LOG

AA-Cc86 ALT.=53 LITHO-ELECTRIC LOG

AA-Be 58 ALT.=160 LITHOLOGIC LOG

Bal-Gf 10 PRODUCTION WELL ALT.=10 LITHOLOGIC LOG

SYSTEM	GROUP	SERIES	FORMATION
TERTIARY	CHESAPEAKE	MIOCENE	CALVERT FM.
CRETACEOUS	PAMUNKEY	EOCENE	MARLBORO MEM. NANJEMOY FM.
CRETACEOUS	POTOMAC	LOWER TO UPPER(?) CRETACEOUS	AQUIA GREENSAND
CRETACEOUS	POTOMAC	LOWER TO UPPER(?) CRETACEOUS	PATAPSCO AND RARITAN(?)FMS. (UNDIVIDED)

PLIO-PLEISTOCENE

CALVERT FORMATION

NANJEMOY FORMATION

MARLBORO CLAY

AQUIA GREENSAND

BRIGHTSEAT (?), MONMOUTH AND MATAWAN FORMATIONS (UNDIVIDED)

MAGOTHY FORMATION

NO ELECTRIC LOG ABOVE 445 ft.

NO ELECTRIC LOG ABOVE 450 ft.

BOTTOM OF E-LOG

T.D. 759

T.D. 602

T.D. 602

T.D. 935

T.D. 924

T.D. 1250

T.D. 1173

T.D. 1058

T.D. 495

T.D. 711

T.D. 1746

T.D. 1812

SCREEN	PUMP TEST
370-378, 430-435, 457-465, 470-482 (8")	① 220 GAL/MIN, 8 HRS, SP. CAP. = 2.6, 4/23/59
452-485, 490-517 (8")	① 453 GAL/MIN, 24 HRS, SP. CAP. = 12.9, 5/25/61
500-510 (8")	① 60 GAL/MIN, 24 HRS, SP. CAP. = 1.1, 8/29/63
318-328, 366-376, 480-490 (6")	① 210 GAL/MIN, 100 HRS, SP. CAP. = 1.9, 11/18/65; ② 216 GAL/MIN, 24 HRS, SP. CAP. = 5.7, 12/15/65
1058-1114 (6")	① 240 GAL/MIN, 37 HRS., SP. CAP. = 0.9, 1/29/65
914-1166 (10")	① 1104 GAL/MIN, 72 HRS, SP. CAP. = 6.4, 11/27/64 (DATA TAKEN FROM ADJACENT PRODUCTION WELL)
850-960 (10")	① 825 GAL/MIN, 24 HRS, SP. CAP. = 12.2, 7/7/64
463-483 (2")	① 25 GAL/MIN, SP. CAP. = 1.7, 10/15/47
581-610 (4.5")	① 550 GAL/MIN, SP. CAP. = 6.8, 1/43 (DATA TAKEN FROM ADJACENT PRODUCTION WELL)

RARITAN(?) AND PATAPSCO FORMATIONS (UNDIVIDED)

POTOMAC GROUP

ARUNDEL AND PATUXENT FORMATIONS UNDIVIDED

CRYSTALLINE BASEMENT

BRENNER'S (1963, p.17) ZONE II SUBZONE B-2

ZONE II SUBZONE B-1

ZONE II SUBZONE A

BRENNER'S ZONE I

ARUNDEL FORMATION

PATUXENT FORMATION

"ATHENA" SAND

"ATHENA" SAND

ARKOSIC ROCKS TRIASSIC(?)

FORMATION	SERIES	GROUP	SYSTEM
PATAPSCO AND RARITAN(?)FMS. UNDIVIDED	LOWER CRETACEOUS	POTOMAC	CRETACEOUS
ARUNDEL FORMATION	LOWER CRETACEOUS	POTOMAC	CRETACEOUS
PATUXENT FORMATION	LOWER CRETACEOUS	POTOMAC	CRETACEOUS
BASEMENT ROCKS			
QUATERNARY		TERTIARY AND QUATERNARY	

ALTITUDE, IN FEET

SEA LEVEL

+300 +250 +200 +150 +100 +50 -50 -100 -150 -200 -250 -300 -350 -400 -450 -500 -550 -600 -650 -700 -750 -800 -850 -900 -950 -1000 -1050 -1100 -1150 -1200 -1250 -1300 -1350 -1400 -1450 -1500 -1550 -1600 -1650

LITHOLOGIC SYMBOLS

- GRAVEL, FINE TO COARSE
- SAND, FINE TO COARSE
- CLAY and/or SILT
- ROCK, UNDIFFERENTIATED
- CEMENTED OR VERY HARD ZONE
- SHELL ZONE

EXPLANATION

GEOLOGIC SYMBOLS

- FORMATION CONTACT ; BROKEN WHERE INFERRED ; QUERIED (?) WHERE TENTATIVE
- FACIES CONTACT ; BROKEN WHERE INFERRED ; QUERIED (?) WHERE TENTATIVE
- UNCONFORMITY ; BROKEN WHERE INFERRED ; QUERIED (?) WHERE TENTATIVE
- PALYNOLOGICAL DETERMINATION ; SEE APPENDIX, TABLE 6

HYDROLOGIC SYMBOLS

- S.L. STATIC WATER LEVEL PRIOR TO PUMP TEST
- PUMPING WATER LEVEL AT END OF PUMP TEST
- SP. CAP. SPECIFIC CAPACITY OF WELLS IN GALLONS PER MINUTE PER FOOT OF DRAWDOWN
- SCREENED INTERVAL OF WELL

① SPECIFIC CAPACITY ESTIMATES FOR THE "ATHENA" SAND RANGE FROM 0.03 TO 0.21 (SEE MACK, 1966, FOR ADDITIONAL DATA)

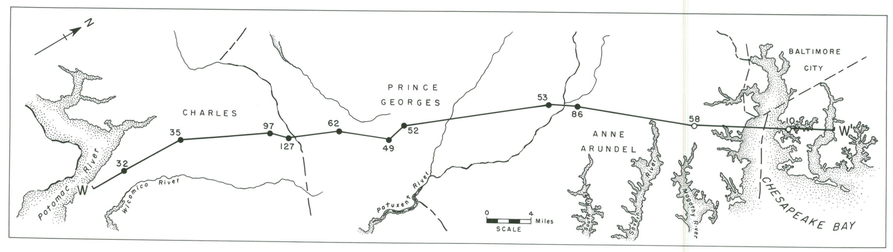

Plate 14. Stratigraphic cross section W-W' extending from Sparrows Point to Popes Creek Road