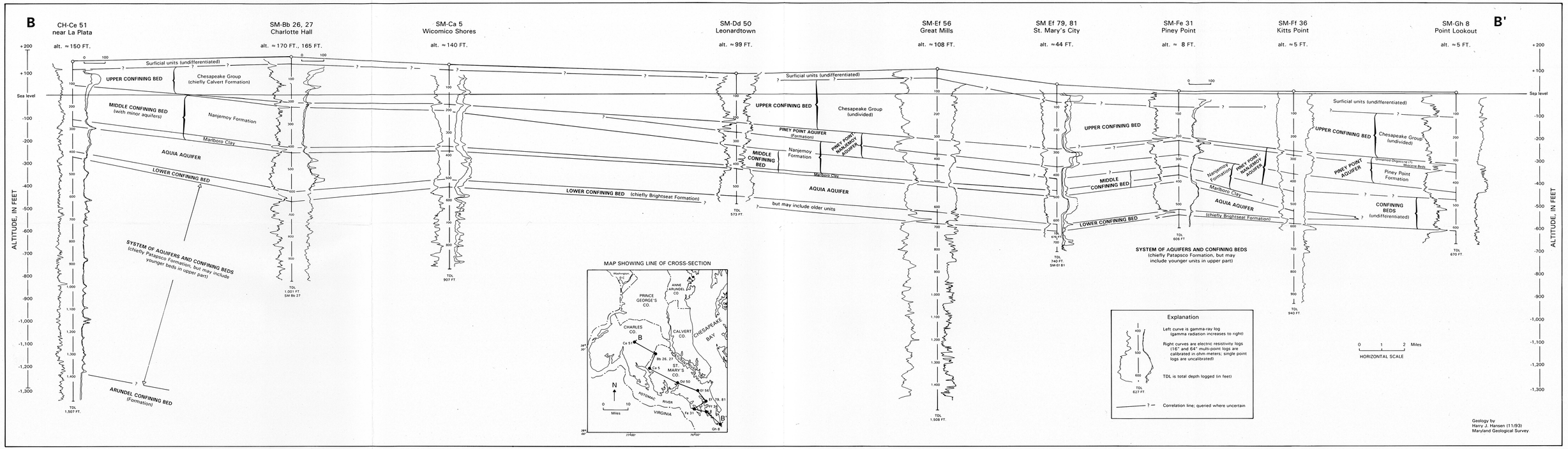
B
B'
CH-Ce 51
near La Plata
alt. ≈ 150 FT.
SM-Bb 26, 27
Charlotte Hall
alt. ≈ 170 FT., 165 FT.
SM-Ca 5
Wicomico Shores
alt. ≈ 140 FT.
SM-Dd 50
Leonardtown
alt. ≈ 99 FT.
SM-Ef 56
Great Mills
alt. ≈ 108 FT.
SM Ef 79, 81
St. Mary's City
alt. ≈ 44 FT.
SM-Fe 31
Piney Point
alt. ≈ 8 FT.
SM-Ff 36
Kitts Point
alt. ≈ 5 FT.
SM-Gh 8
Point Lookout
alt. ≈ 5 FT.
ALTITUDE, IN FEET
+200
+100
Sea level
-100
-200
-300
-400
-500
-600
-700
-800
-900
-1,000
-1,100
-1,200
-1,300
Surficial units (undifferentiated)
UPPER CONFINING BED
Chesapeake Group (chiefly Calvert Formation)
MIDDLE CONFINING BED (with minor aquifers)
Nanjemoy Formation
Marlboro Clay
AQUIA AQUIFER
LOWER CONFINING BED
SYSTEM OF AQUIFERS AND CONFINING BEDS (chiefly Patapsco Formation, but may include younger beds in upper part)
ARUNDEL CONFINING BED (Formation)
TDL 1,507 FT.
TDL 1,001 FT. SM Bb 27
TDL 907 FT.
LOWER CONFINING BED (chiefly Brightseat Formation)
but may include older units
Chesapeake Group (undivided)
PINEY POINT AQUIFER (Formation)
PINEY POINT-NANJEMOY AQUIFER
TDL 573 FT.
TDL 1,508 FT.
TDL 616 FT.
TDL 740 FT. SM-Ef 81
TDL 606 FT.
(chiefly Brightseat Formation)
TDL 940 FT.
Unnamed Oligocene (?) Miocene Beds
Piney Point Formation
CONFINING BEDS (undifferentiated)
TDL 670 FT.
MAP SHOWING LINE OF CROSS-SECTION
Washington, D.C.
PRINCE GEORGE'S CO.
ANNE ARUNDEL CO.
CHARLES CO.
CALVERT CO.
CHESAPEAKE BAY
ST. MARY'S CO.
POTOMAC RIVER
VIRGINIA
N
0 10 Miles
77°00'
76°30'
38° 30'
38° 00'
Explanation
Left curve is gamma-ray log (gamma radiation increases to right)
Right curves are electric resistivity logs (16" and 64" multi-point logs are calibrated in ohm-meters; single point logs are uncalibrated)
TDL is total depth logged (in feet)
Correlation line; queried where uncertain
TDL 627 FT.
0 1 2 Miles
HORIZONTAL SCALE
SYSTEM OF AQUIFERS AND CONFINING BEDS (chiefly Patapsco Formation, but may include younger units in upper part)
Geology by Harry J. Hansen (11/93) Maryland Geological Survey