

Table 1.—Mineral occurrences of West Virginia (Coordinates are listed in order of abundance, if known; minor commodities are in parentheses; — unknown or no information available)

Table 1: Mineral occurrences of West Virginia. Columns include Locality No., Name, County, Quadrangle, Latitude, Longitude, Commodity, Size, Host rock, Comments, and References. Lists various mineral sites like Monongahela River, Patterson Creek, Aurora Stone, etc.

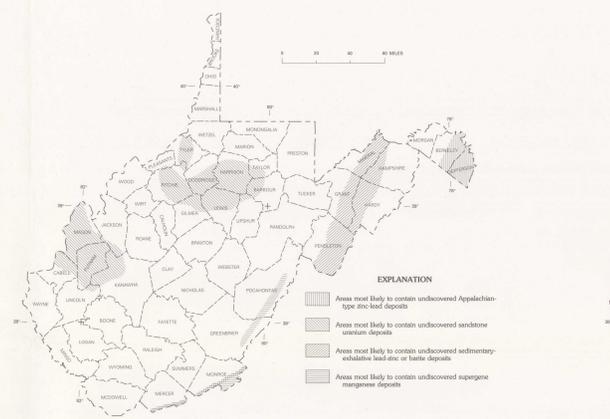


Figure 1.—Map showing areas of West Virginia that show promise of containing undiscovered mineral deposits.

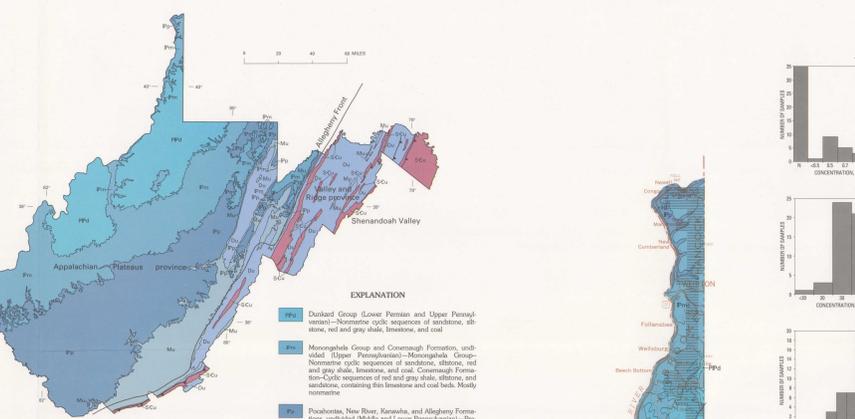


Figure 2.—Geologic map of West Virginia. Geology simplified from Cardwell and others (1958).

Table 2.—Chemical analyses of shales, siltstones, sandstones, and limestones from measured sections within and near barite-nodule-bearing beds

Table 2: Chemical analyses of shales, siltstones, sandstones, and limestones. Columns include Sample no., Description, and concentrations of various elements (SiO2, Al2O3, FeO, CaO, MgO, K2O, Na2O, TiO2, P2O5, MnO, NiO, Ni, Pb, Zn, H2O, CO2).

Table 3.—Chemical analyses of concretions and nodules from measured intervals

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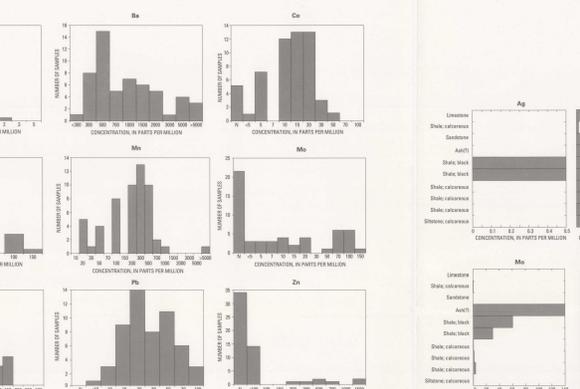
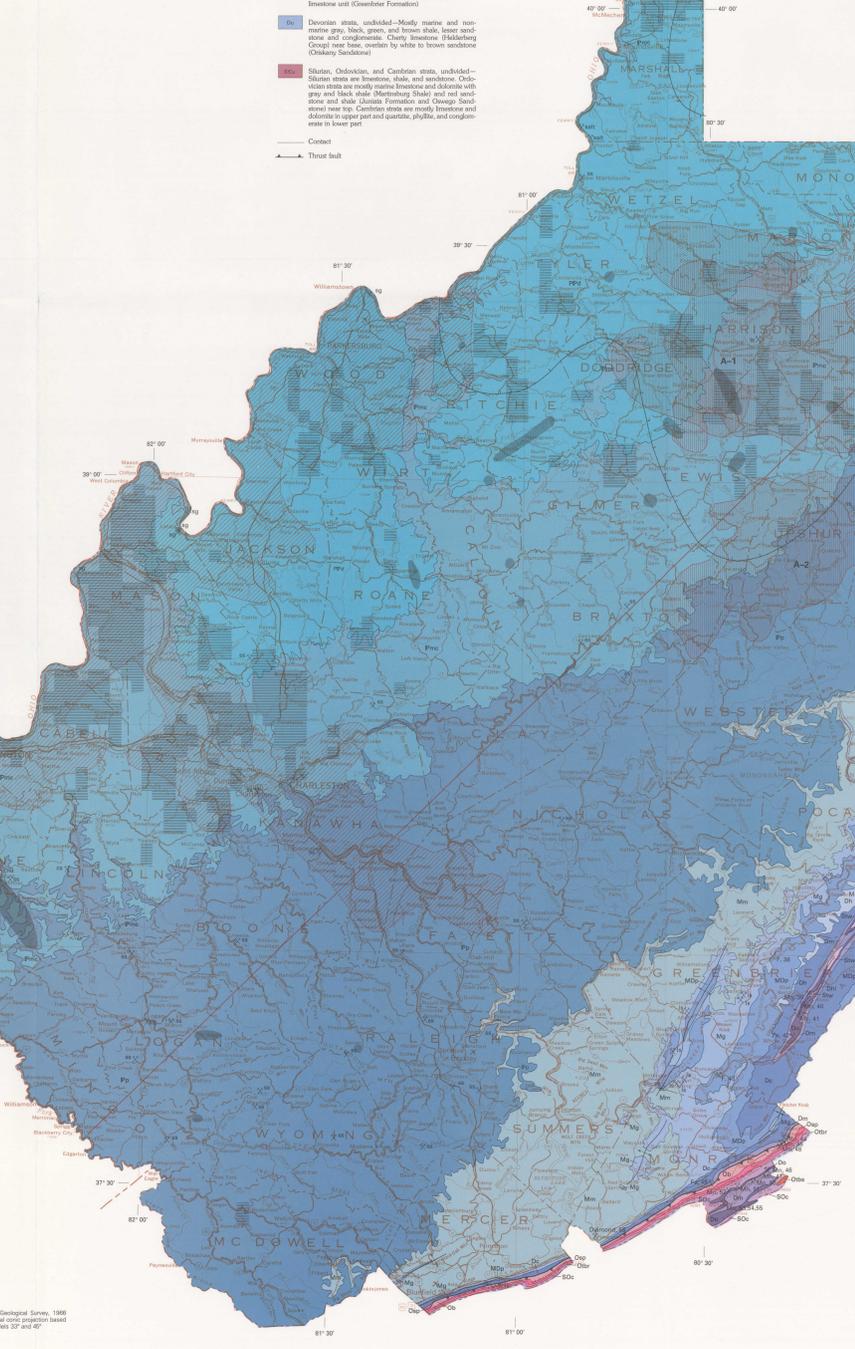


Figure 3.—Histograms of 55 analyses of Ag, Ba, Ca, Cu, Mo, Ni, Pb, and Zn in Devonian shales in West Virginia. Analyses for Ag, Ba, Ca, Cu, Mo, Ni, Pb, and Zn are by DC arc atomic emission spectrometry analyses for Ag, Ba, Ca, Cu, Mo, Ni, Pb, and Zn are by inductively coupled plasma atomic emission spectrometry.



Figure 4.—Lithologic column showing the distribution of Ag, Ba, Ca, Cu, Mo, Ni, Pb, and Zn in the Patterson Creek barite locality. Analyses for Ag, Ba, Ca, Cu, Mo, Ni, Pb, and Zn are by DC arc atomic emission spectrometry analyses for Ag, Ba, Ca, Cu, Mo, Ni, Pb, and Zn are by inductively coupled plasma atomic emission spectrometry.

\*Host rock may be at depth and therefore not the same as the unit shown on the map.

Based on U.S. Geological Survey, 1960. National Geodetic Vertical Datum of 1929.

ASSESSMENT BY DEPOSIT TYPE (See pamphlet for details)
DESCRIPTION OF MAP UNITS
Sandstone uranium
Sedimentary-exhalative lead-zinc and sedimentary-exhalative barite
Appalachian zinc
Sandstone-hosted lead-zinc
Sediment-hosted copper
CORRELATION OF MAP UNITS
EXPLANATION OF MAP SYMBOLS

MINERAL RESOURCES OF WEST VIRGINIA

By W.F. Cannon, S.H.B. Clark, F.G. Lesure, M.E. Hinkle, R.L. Paylor, H.M. King, C.M. Simard, K.C. Ashton, and J.S. Kite