DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

Open-File Report 83-309
Plate 1

This map is part of a folio of maps of the Wallace 1° x 2° quadrangle, Montana-Idaho, prepared under the Conterminous United States Mineral Assessment Program (CUSMAP).

This map has not been reviewed for conformity with U.S. Geological Survey standards.

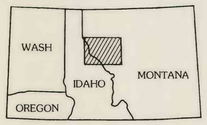
Base from U.S. Geological Survey, 1956

Scale 1:250,000

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
TRANSVERSE MERCATOR PROJECTION

1965 MAGNETIC DECLINATION FROM TRUE NORTH FOR THIS SHEET VARIES FROM 20½° (960 MILS) EASTERLY FOR THE CENTER OF THE WEST EDGE TO 20° (960 MILS) FOR THE CENTER OF THE EAST EDGE.

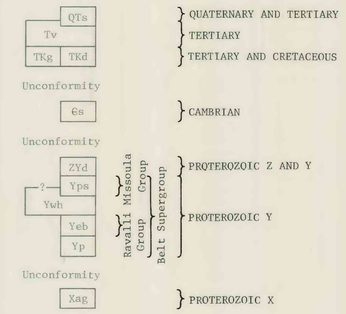
Plate 1



INDEX MAP

Geology by J. E. Harrison, A. B. Griggs, and J. D. Wells, 1970-1980. Assisted by H. R. Covington (1972), Joseph Boggs (1973), and J. P. Harrison (1970-1980)

CORRELATION OF GEOLOGIC MAP UNITS



DESCRIPTION OF GEOLOGIC MAP UNITS

QTs VALLEY FILL DEPOSITS (QUATERNARY AND TERTIARY)--Alluvium, glacial deposits, and semiconsolidated to consolidated conglomerate interlayered in places with shale, coal, and volcanic ash; shown only in major valleys and basins or along main stream courses

Tv VOLCANIC ROCKS (TERTIARY)--Largely andesitic to dacitic welded tuff

TKg GRANITIC INTRUSIVE ROCKS (TERTIARY AND CRETACEOUS)

TKd DIORITIC INTRUSIVE ROCKS (TERTIARY AND CRETACEOUS)

Ꞓs SEDIMENTARY ROCKS (CAMBRIAN)--Includes Red Lion Formation, Hasmark Dolomite, Silver Hill Formation, Flathead Quartzite, and equivalent rocks

ZYd DIORITIC TO GABBROIC SILLS AND DIKES (PROTEROZOIC Z AND Y)

Yps MISSOULA GROUP (PROTEROZOIC Y)--Includes Pilcher, Libby, Garnet Range, and McNamara Formations, Bonner Quartzite, and Striped Peak, Mount Shields, Shepard, and Snowslip Formations

Ywh WALLACE AND HELENA FORMATIONS (PROTEROZOIC Y)

Yeb RAVALLI GROUP (PROTEROZOIC Y)--Includes Empire, St. Regis, Spokane, Revett, and Burke Formations

Yp PRICHARD FORMATION (PROTEROZOIC Y)

Xag ANORTHOSITE, SCHIST, AND GNEISS (PROTEROZOIC X)

CONTACT

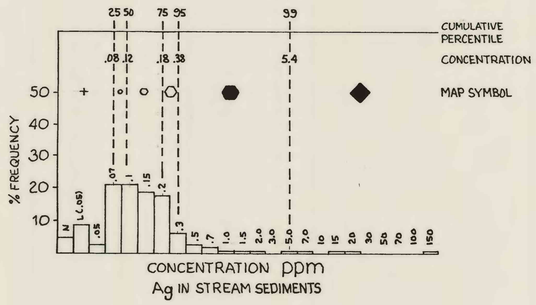
FAULT--Dotted where concealed. Bar and ball on downthrown side; arrows show relative direction of apparent horizontal movement

THRUST FAULT--Dotted where concealed. Sawteeth on upper plate

Note: This generalized and simplified geologic map was prepared as an underlay for various geophysical and geochemical data collected in the Wallace 1° x 2° quadrangle. A fuller treatment of geologic units and structure can be found on other maps in the Wallace CUSMAP folio

MAP SHOWING GEOLOGY AND SAMPLE LOCALITIES AND CONCENTRATION OF SILVER IN STREAM SEDIMENTS FROM THE WALLACE 1° x 2° QUADRANGLE, MONTANA AND IDAHO

By

D.L. Leach, D.M. Hopkins, J.A. Domenico, R.J. Goldfarb

1983