DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

Open-File Report 83-309
Plate 3

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 editorial standards.

CORRELATION OF GEOLOGIC MAP UNITS

QTs	QUATERNARY AND TERTIARY
Tv	TERTIARY
TKg, TKd	TERTIARY AND CRETACEOUS
Unconformity	
Es	CAMBRIAN
Unconformity	
ZYd	PROTEROZOIC Z AND Y
? Yps (Missoula Group)	
Ywh, Yeb, Yp (Ravalli Group, Belt Supergroup)	PROTEROZOIC Y
Unconformity	
Xag	PROTEROZOIC X

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)

Es 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

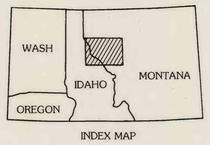
Note: This generalized and simplified geologic map was prepared as an underlay for various geophysical and geochemical data collected in the Wallace 1° x 2° quadrangle. A fuller treatment of geologic units and structure can be found on other maps in the Wallace CUSMAP folio

Base from U.S. Geological Survey, 1956

Scale 1:250,000
5 0 5 10 15 20 Statute Miles
5 0 5 10 15 20 25 30 Kilometers
5 0 5 10 15 Nautical Miles

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° (360 MILS) EASTERLY FOR THE CENTER OF THE WEST EDGE TO 20° (360 MILS) FOR THE CENTER OF THE EAST EDGE



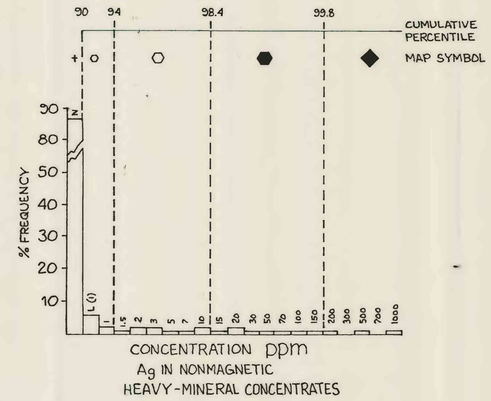
INDEX MAP

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)

Plate 3

MAP SHOWING GEOLOGY AND SAMPLE LOCALITIES AND CONCENTRATION OF SILVER IN NONMAGNETIC HEAVY-MINERAL CONCENTRATES FROM THE WALLACE 1°x 2° QUADRANGLE, MONTANA AND IDAHO

By

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

1983