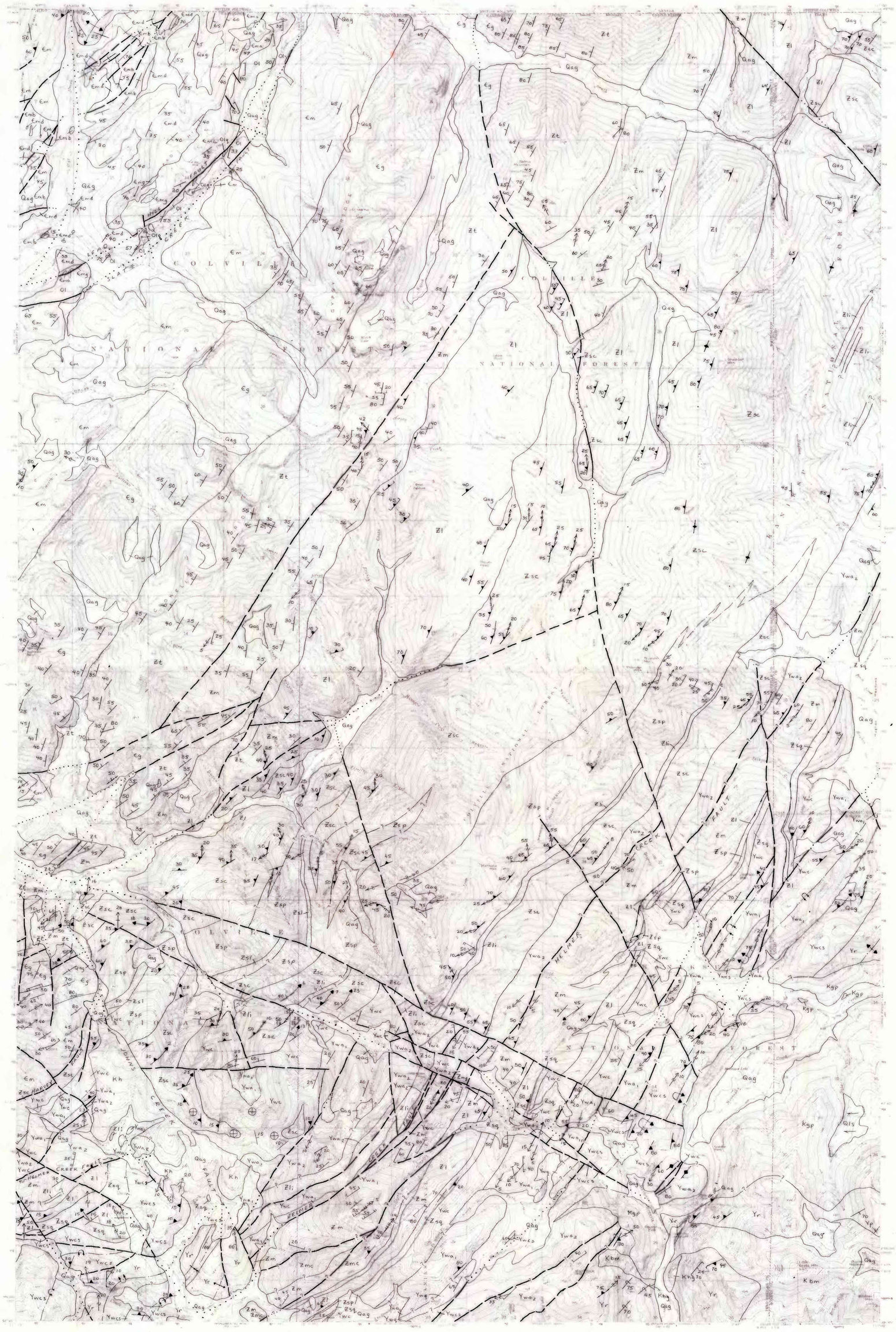
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN-FILE REPORT 83-601

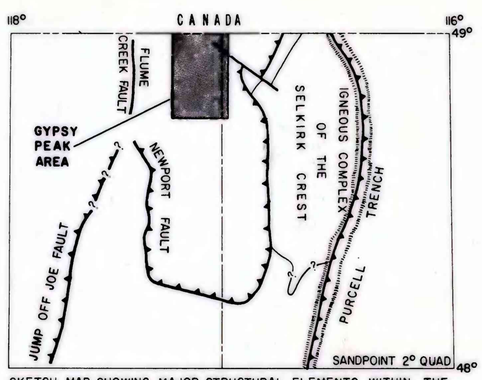


Base from USGS 7.5' topographic series: Salmo Mtn., 1967; Gypsy Peak, 1967; Pass Creek, 1967; and Helmer Mtn., 1967

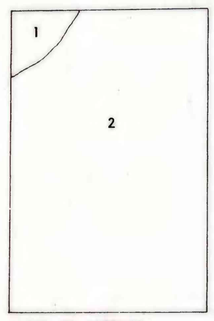
Scale 1:48,000

Contour interval 40 feet

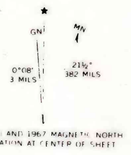
Geology by F.K. Miller, 1979, 1980, and 1981; assisted by E.A. Rodriguez, 1979; and K. E. Silver, 1981 and 1982



SKETCH MAP SHOWING MAJOR STRUCTURAL ELEMENTS WITHIN THE SANDPOINT 2° QUADRANGLE



INDEX TO MAPPING
1. Dings and Whitebread (1965)
2. F.K. Miller



CORRELATION OF MAP UNITS

	Qag, Qls	QUATERNARY
	Kh, Kbm, Kgp, Khg	CRETACEOUS
	Ol, Olq	ORDOVICIAN
	€mg, €md, €ma, €mb, €m, €g	CAMBRIAN
Windermere Group	Zt, Zm, Zmc, Zl, Zli, Zsc, Zsp, Zsl, Zsq	PROTEROZOIC Z
Belt Supergroup	Ywa_2, Ywc, Ywa_1, Ywq, Ywcs, Yr, Yp	PROTEROZOIC Y

Qag--Glacial and alluvial material
Qls--Landslide deposits
Kh--Granodiorite of Hall Mountain
Kbm--Boulder Mountain pluton of granodiorite of Hall Mountain
Kgp--Monzogranite of Granite Pass
Khg--Heterogeneous granitic rocks
Ol--Ledbetter Slate; Olq, quartzite
€mg--Metaline Limestone, massive gray limestone
€md--Metaline Limestone, bedded dolomite
€mb--Metaline Limestone, bedded limestone
€ma--Metaline Limestone, altered rock
€m--Maitlen Phyllite
€g--Gypsy Quartzite

Windermere Group

Zt--Three Sisters Formation
Zm--Monk Formation; Zmc, conglomerate
Zl--Leola Volcanics; Zli, intrusive greenstone
Zsc--Shedroof Conglomerate; Zsp, phyllite; Zsl, limestone; Zsq, quartzite

Belt Supergroup

Ywa_2--Wallace Formation, upper argillite
Ywc--Wallace Formation, carbonate rock
Ywa_1--Wallace Formation, lower argillite
Ywq--Wallace Formation, quartzite
Ywcs--Wallace Formation, calc-silicate unit
Yr--Ravalli Group undivided
Yp--Prichard Formation

CONTACT- Approximately located, diagrammatic where dot-dashed, queried where uncertain

FAULT-Dashed where approximately located, dotted where concealed, queried where uncertain

ANTICLINE

OVERTURNED ANTICLINE

OVERTURNED SYNCLINE

STRIKE AND DIP OF BEDS

70 Inclined ⊕ Horizontal

Vertical

70 Overturned

STRIKE AND DIP OF FOLIATION

70 Inclined

Vertical

STRIKE AND DIP OF CLEAVAGE

70 Inclined

Vertical

70 Slip cleavage, inclined

Slip cleavage, vertical

BEARING AND PLUNGE OF LINEATIONS

70 Minor fold axes

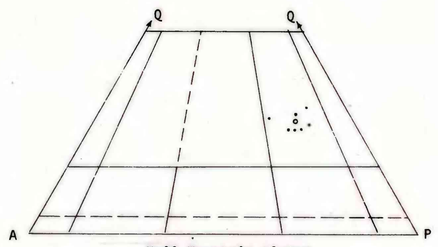
70 Crenulations

70 Aligned minerals, secondary

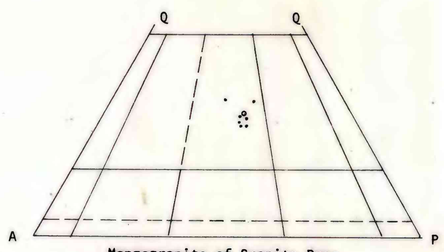
70 Mullions

NOTE: Symbols may be used in combination

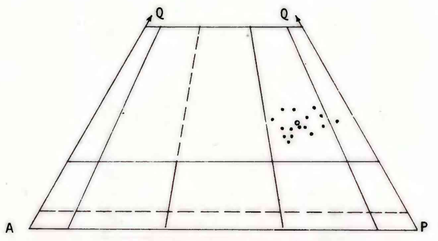
This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.



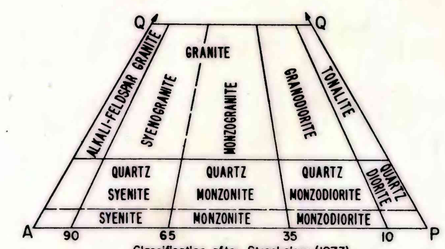
Hall Mountain pluton



Monzogranite of Granite Pass



Boulder Mountain pluton



Classification after Streckeisen (1973)

• individual analyses
◦ average composition

PRELIMINARY GEOLOGIC MAP OF THE GYPSY PEAK AREA, PEND OREILLE COUNTY, WASHINGTON, AND BONNER AND BOUNDARY COUNTIES, IDAHO

BY

FRED K. MILLER

1983