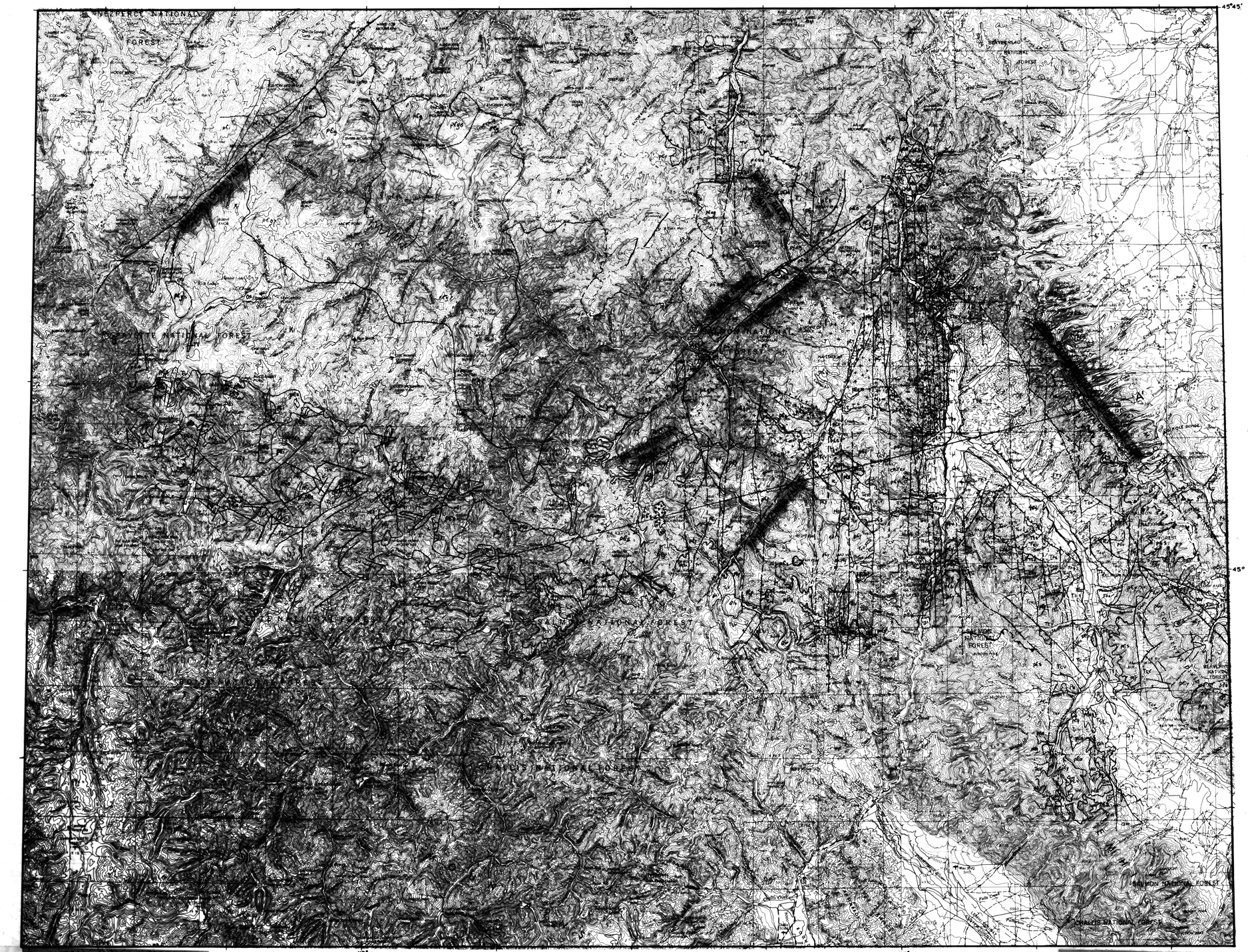
Open File Report 81-1088

PLATE 1



Base modified from U. S. Geological Survey 1:250,000 Elk City, Dillon, and Dubois, Montana and Boise, and Challis, Idaho

Compiled by D. A. Lopes, 1980, 1981; for sources of mapping see plate 2

EXPLANATION

CORRELATION OF MAP UNITS

Qfg, Qm, Qs, Qls	Holocene	QUATERNARY
	Pleistocene (?)	
UNCONFORMITY		
Tts	Oligocene (?)	TERTIARY
UNCONFORMITY		
Ti, Tcv	Eocene	TERTIARY
Ki		CRETACEOUS
Pu		PALEOZOIC
pЄs		PROTEROZOIC Y
MEDICINE LODGE THRUST		
pЄi, pЄqm		PROTEROZOIC Z
pЄag, pЄg, pЄgs, pЄbs, pЄy		PROTEROZOIC Y

pЄag, pЄi, pЄgs, pЄg and pЄbs occur in structural blocks separate from pЄy and exact age relations uncertain

DESCRIPTION OF MAP UNITS

Qs SURFICIAL DEPOSITS UNDIVIDED (HOLOCENE) -- Includes alluvium in active stream channels, alluvial fan deposits, flood plain deposits, and colluvium

Qls LANDSLIDE DEPOSITS (HOLOCENE TO PLEISTOCENE ?) -- Unconsolidated poorly sorted locally derived rock fragments in clay-rich matrix; exhibit characteristic hummocky surface form

Qfg ALLUVIAL FAN GRAVEL (HOLOCENE) -- Very coarse rounded gravel- to boulder-size material in sandy matrix; may have been deposited during flash floods; mapped only just north of Salmon Idaho

Qm GLACIAL TILL (PLEISTOCENE ?) -- Unconsolidated poorly sorted subrounded boulders, cobbles, and pebbles in sandy matrix

Tts TUFFACEOUS SEDIMENTARY ROCKS UNDIVIDED (OLIGOCENE) -- Conglomerate, sandstone, and siltstone, typically light gray to light brown, poorly consolidated

Tcv CHALLIS VOLCANICS UNDIVIDED (EOCENE) -- Wide range of lithologies, from basaltic andesite to rhyolite tuffs

Ti INTRUSIVE ROCKS UNDIVIDED (EOCENE?) -- Granites to granodiorites

Ki ROCKS OF IDAHO BATHOLITH UNDIVIDED (CRETACEOUS) -- Predominantly granite to granodiorite

Pu PALEOZOIC SEDIMENTARY ROCKS UNDIVIDED (PALEOZOIC)

pЄs PRECAMBRIAN SEDIMENTARY ROCKS UNDIVIDED (PROTEROZOIC Y) -- Includes Hoodoo Quartzite, Swauger Formation, and the Lemhi Group, predominantly light colored fine to medium grained quartzites, and greenish gray siltite; occur in the Medicine Lodge Thrust Plate

pЄqm PORPHYRITIC QUARTZ MONZONITE (PROTEROZOIC Y) -- Medium gray to pinkish gray, biotite quartz monzonite, coarse grained with large phenocrysts of K-feldspar up to 3 cm across

pЄy YELLOWJACKET FORMATION UNDIVIDED (PROTEROZOIC Y) -- Predominantly medium gray to dark gray thin-bedded argillaceous feldspathic quartzite and less abundant interbedded sandy argillite

pЄbs BIOTITE SCHIST (PROTEROZOIC Y?) -- Light to medium gray, medium grained, biotite quartz feldspar schist

pЄgs GNEISS AND SCHIST (PROTEROZOIC Y?) -- Medium to dark gray amphibolite facies metasedimentary rocks

pЄi GNEISSIC INTRUSIVE ROCKS (PROTEROZOIC Y TO Z) -- Wide lithologic variety; some dated at 850 m.y. old (Cater and others, 1973)

pЄg pЄgs and pЄi UNDIVIDED (PROTEROZOIC Y TO Z?)

pЄag AUGEN GNEISS (PROTEROZOIC Y?) -- Coarse grained granitic augen gneiss to dioritic augen gneiss and amphibolite

Contact, dashed where approximately located

Thrust fault, dashed where approximately located, dotted where concealed, teeth on upper plate

High-angle fault, dashed where approximately located or inferred, dotted where concealed; bar and ball on downthrown side if normal; open teeth on upthrown side if reverse

Tectonic breccia



PLATE 1.--GENERALIZED GEOLOGIC MAP OF PART OF EAST-CENTRAL IDAHO UNDERLAIN BY THE YELLOWJACKET FORMATION