Base from U.S. Geological Survey, 1956, revised 1982

Scale 1:250,000

CONTOUR INTERVAL 200 FEET

Compiled by Karen Lund, 1987
Sources of geologic mapping shown on figures A1 and A2

For geologic symbols, see Explanation, Plate 1

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards nor with the North American stratigraphic code.

EXPLANATION

Unconsolidated Deposits

Qu	Quaternary alluvium
Ta	Oligocene and Miocene(?) alluvium

Layered Units

Pz Pu	Permian to Triassic greenschist to amphibolite facies volcanic rocks, volcanogenic calcareous slate to schist, and marble
Pz Zu	Late Proterozoic(?) to Paleozoic(?) quartzite, calc-silicate gneiss, marble, pyrite-apatite quartzite, quartzite pebble conglomerate
Yl	Middle Proterozoic Lemhi Group
Yh	Middle Proterozoic Hoodoo Quartzite, may be interlayered with Yellowjacket Formation or may be equivalent to Lemhi Group
Yy	Middle Proterozoic Yellowjacket Formation
Yr	Middle Proterozoic(?) quartzite correlated with Ravalli Group of the Belt Supergroup
Yw	Middle Proterozoic(?) calc-silicate gneiss correlated with Wallace Formation of the Belt Supergroup
Yp	Middle Proterozoic(?) biotite quartzo-feldspathic gneiss and schist correlated with Prichard Formation of the Belt Supergroup
Ygn	Middle Proterozoic(?) micaceous gneiss, mica schist, quartzite, calc-silicate gneiss
Ycs	Middle Proterozoic(?) calc-silicate gneiss, minor quartzo-feldspathic gneiss. Primary sedimentary structures preserved
Yq	Middle Proterozoic(?) quartzite. Cross-laminated
Yu	Middle Proterozoic(?) metasedimentary (and metaigneous?) units undifferentiated

Igneous Units

Tv	Eocene Challis Volcanic Group
Ti	Eocene hornblende-biotite granite and biotite granite of Running Creek, Painted Rocks, Big Horn Crags, Casto, and unnamed plutons
Ki	Late Cretaceous Idaho batholith tonalite, granodiorite, and granite (possibly some Paleocene to Eocene rocks)
O€i	Cambrian to Ordovician hornblende- and biotite-bearing alkali syenite to quartz alkali syenite of the Deep Creek, Arnett Creek, and Ramey Ridge plutons, probably also plutons at Acorn Butte and Rush Creek Point
Yi	Middle Proterozoic porphyritic granite, augen gneiss, amphibolite that intruded Yy and Ygn

Symbols

- Contact, dashed where inferred
- Thrust fault, dashed where inferred
- Low-angle fault, possible younger-on-older relationship
- Normal fault, dashed where inferred, bar and ball on downthrown side

COMPILED GEOLOGIC MAP OF THE ELK CITY 1° X 2° QUADRANGLE, MONTANA AND IDAHO