GEOLOGIC MAP OF THE IDAHO PRIMITIVE AREA, IDAHO

Geology by F. W. Cater, W. B. Hamilton, and B. F. Leonard in 1966, 1967, and 1969; D. M. Pinckney in 1967 and 1969; and R. L. Parker and E. V. Post in 1966; assisted by R. M. Breckenridge in 1966 and 1967; W. P. McKay, W. M. Pennell, and F. J. Sage in 1966; and H. E. Ehrenspeck and Michael Martin in 1967. In part modified from C. P. Ross (1934)

Aeromagnetic survey flown in 1968 at 11,000 feet barometric elevation; flight-line spacing 1 mile

Base from U.S. Geological Survey, 1:250,000
Elk City, 1956–63, and Challis, 1955

SCALE 1:125 000

2 0 2 4 6 8 10 MILES

2 0 2 4 6 8 10 KILOMETERS

CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL
1972 MAGNETIC DECLINATION AT CENTER OF MAP IS APPROXIMATELY 18°30′ EAST

* U.S. GOVERNMENT PRINTING OFFICE: 1973—543–577/32

EXPLANATION

QUATERNARY

Qal — Alluvium
Glacial deposits and stream terrace gravels

TERTIARY

Upper Oligocene or lower Miocene

Ti — Black latite

Td — Dike rocks
Lamprophyre, granophyre, and diabase; includes some dikes related to the Challis Volcanics

Tsi — Silicified rocks

Trd — Rhyodacite porphyry

Tdp — Dacite porphyry

Eocene

Ti — Casto pluton and related rocks
Pink granite and quartz monzonite, hornblende granite, white granite porphyry, and granophyre

Tcv — Challis Volcanics
Andesite, rhyodacite, quartz latite, and rhyolite tuff, ashflows, and flows

Tcq — Crags pluton
Quartz monzonite and granodiorite

CRETACEOUS

Rocks of the Idaho batholith

Kim — Mixed rocks
Alaskite and varying amounts of metamorphic rock fragments

Ki — Quartz monzonite, granodiorite, and quartz diorite

Km — Migmatite

Kiq — Gneissic leucocratic quartz monzonite

PRECAMBRIAN

Upper Precambrian

pCi — Intrusive complexes
Syenite, quartz syenite, amphibolite, hornblendite, gabbro, and pyroxenite

pCh — Hoodoo Quartzite

pCy — Yellowjacket Formation
Siltite, quartzite, impure quartzite and calcareous argillite

pCq, pCqs — Quartzite, gneiss, and schist
pCq, *quartzite*
pCqs, *micaceous quartzite and biotite gneiss and schist*

pCm — Dolomitic marble

pCgs — Gneiss and schist
May include plutonic basement rocks

Contact
Queried where arbitrarily drawn

Fault
Dashed where approximately located; dotted where concealed

Inclined Vertical Overturned
Strike and dip of beds

Inclined Vertical
Strike and dip of foliation

Bearing and plunge of lineation
May be combined with planar symbols

2100
Magnetic contours
Showing total intensity magnetic field of the earth in gammas relative to arbitrary datum. Hachured to indicate closed areas of lower magnetic intensity. Dashed where data are incomplete. Contour intervals 20 and 100 gammas

+2009
Location of measured maximum or minimum intensity within closed high or closed low

Boundary of Idaho Primitive Area

Boundary of study area