UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1391-D
PLATE 1

Geologic map of the original Cloud Peak study area is shown in U.S. Geological Survey Bulletin 1371-C (Kilsgaard and others, 1972, pl. 1)

CORRELATION OF MAP UNITS

Qc, Qd	Holocene, Pleistocene	QUATERNARY
Tg		TERTIARY
Trc		TRIASSIC
PIPu		PERMIAN
IPa		PENNSYLVANIAN
Mm		MISSISSIPPIAN
Ob	Upper Ordovician	ORDOVICIAN
Cgg	Upper Cambrian	CAMBRIAN
Cf	Middle Cambrian	
pom, m		PRECAMBRIAN
pCg		

LIST OF MAP UNITS

Qc	COLLUVIUM (HOLOCENE)
Qd	GLACIAL DRIFT (PLEISTOCENE)
Tg	GRAVEL AND RELATED DEPOSITS (TERTIARY)
Trc	CHUGWATER FORMATION (TRIASSIC)
PIPu	RED SHALE AND GYPSUM (PERMIAN), TENSLEEP SANDSTONE (PERMIAN AND PENNSYLVANIAN), AND AMSDEN FORMATION (PENNSYLVANIAN)
IPa	AMSDEN FORMATION (PENNSYLVANIAN)
Mm	MADISON LIMESTONE (MISSISSIPPIAN)
Ob	BIGHORN DOLOMITE (UPPER ORDOVICIAN)
Cgg	GALLATIN LIMESTONE (UPPER CAMBRIAN) AND GROS VENTRE FORMATION (UPPER AND MIDDLE CAMBRIAN)
Cf	FLATHEAD SANDSTONE (MIDDLE CAMBRIAN)
pom	MAFIC DIKES (PRECAMBRIAN) – Showing dip
	Chiefly quartz dolerite
	Postmetamorphic quartz dolerite
m	Metadolerite
	QUARTZ VEINS (PRECAMBRIAN) – Showing dip
pCgr	GRANITIC ROCKS (PRECAMBRIAN)
pCg	GNEISS AND MIGMATITE (PRECAMBRIAN)

- CONTACT – Dashed where approximately located or inferred; queried where speculative or gradational
- FAULT – Showing dip and relative direction of movement. Dashed where indefinite; dotted where concealed
- THRUST FAULT – Dashed where indefinite; dotted where concealed. T on upper plate
- APPROXIMATE LOCATION OF PINEY CREEK THRUST FAULT OUTSIDE AREA OF GEOLOGIC MAPPING – From Hudson (1969, pl. 1)
- STRIKE AND DIP OF BEDDING IN SEDIMENTARY ROCKS
- STRIKE AND DIP OF JOINTING IN CRYSTALLINE ROCKS
  - Inclined
  - Vertical
- STRIKE AND DIP OF FOLIATION IN CRYSTALLINE ROCKS
  - Inclined
  - Vertical
- MAGNETIC CONTOURS – Showing total intensity of Earth's magnetic field, in gammas, relative to arbitrary datum. Hachured to indicate closed areas of lower magnetic intensity. Contour interval 10 gammas
- MEASURED MAXIMUM OR MINIMUM INTENSITY WITHIN CLOSED HIGH OR LOW
- FLIGHT PATH – Showing location and spacing of magnetic data
- SAMPLE LOCALITIES
- PROSPECT
- APPROXIMATE LOCATION OF UNPATENTED MINING CLAIMS
- BOUNDARY OF CLOUD PEAK PRIMITIVE AREA
- BOUNDARY OF ORIGINAL CLOUD PEAK STUDY AREA
- BOUNDARY OF PROPOSED EXTENSIONS TO PRIMITIVE AREA

Base from U.S. Forest Service, 1970

MAP SHOWING GENERALIZED GEOLOGY, SAMPLE LOCALITIES, MINING CLAIMS, AND SOME MAGNETIC INTENSITY DATA FOR AREAS ADJACENT TO THE CLOUD PEAK PRIMITIVE AREA, WYOMING

SCALE 1:63 360

1 ½ 0 1 2 3 4 MILES

1 .5 0 1 2 3 4 KILOMETRES

Geology by Kenneth Segerstrom, W. R. Keefer, and D. E. Trimble, assisted by Conrad Kuharic, 1973, and based in part on maps by Osterwald (1959), Hoppin (1961), and Hudson (1969, 1970).

Aeromagnetic survey flown in 1972 at 12,000 feet barometric elevation; flight-line spacing one mile

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