



EXPLANATION

PHANEROZOIC ROCKS UNDIVIDED



PRECAMBRIAN INTRUSIVE ROCKS

Proterozoic mafic dikes (Pd)

Archean granodiorite (gd) (>2.6 Ga)<sup>1</sup>

Archean (D) porphyritic megacrystic "leopard rock" (lp). Contains coarse-grained mafic phenocrysts in fine-grained diabase matrix.

Archean metagabbro & metabasalt (mg). Fine- to medium-grained mafic dikes with ophiolite to subophiolite texture.

ARCHEAN SUPRACRUSTAL ROCKS (>2.7 Ga)<sup>1</sup>

Upper metasedimentary & metavolcanic unit

Felsic metavolcanic & volcaniclastic rocks (fv). Fine-grained ton schists with anesitic and dacite compositions.

Metasedimentary rocks (chloritic & pelitic schist) (us).

Banded quartz-magnetite-grunerite iron formation (uf)<sup>2</sup>

Mafic metavolcanic & volcanoclastic schists & amphibolites (mv)

Ultramafic schist (uum). Serpentinite & tremolite-talc-chlorite schist.

Bradley Peak ultramafics<sup>3</sup>

Mafic & ultramafic metavolcanic rocks (um). Serpentinite, melaperidotite, tremolite-talc-chlorite schist, amphibolite, & cumulate textures preserved in several ultramafic flows.

Intrusive magnetite iron formation (if)

Lower metavolcanic unit

Mafic metavolcanic & volcanoclastic schists & amphibolites (lmv). Lineation pattern approximates foliation trends.

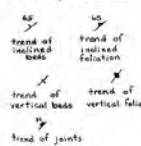
Serpentinite (lum).

Pelitic schist (lms).

Banded quartz-magnetite-grunerite iron formation (lif)

MAP SYMBOLS

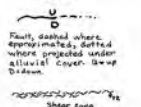
Bedding & Foliation



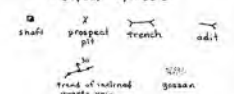
Minor Folds



Faults



Prospect Symbols



Miscellaneous



REFERENCES

- Snyder, G.L., Hausel, W.D., Klein, T.L., Houston, R.S., and Greff, P.J., 1987, Precambrian rocks and mineralization, southern Wyoming Province, in 28<sup>th</sup> International Geological Congress Field Trip Guidebook T332: American Geophysical Union, Washington D.C., 48p.
  - Levering, T.S., 1924, The Rawlins, Smiley, and Seminoe iron-ore deposits Carbon County, Wyoming. U.S. Geological Survey Bulletin 811-D, p.203-235.
  - Klein, T.L., 1981, The geology and geochemistry of the sulfide deposits of the Seminoe district, Carbon County, Wyoming: PhD dissertation, Colorado School of Mines, Golden, 232 p.
  - Blackstone, O.L., Jr., 1965, Gravity thrusting in the Bradley Peak and Seminoe Dam quadrangles, Carbon County, Wyoming: Geological Survey of Wyoming Preliminary Report 6, 13p.
- Bayley, R.W., 1968, Geologic map of the Bradley Peak Quadrangle, Carbon County, Wyoming: U.S. Geological Survey Geologic Quadrangle GQ-773, scale 1:24,000.

GENERALIZED GEOLOGIC MAP



ACKNOWLEDGMENTS

I am indebted to Charlie and Donna Kortz for their assistance with historic mine records and claims. I would also like to thank John France and the Miller Estate Company for access. The U.S. Bureau of Land Management (Rawlins district) provided aerial photography to aid mapping. I also thank D. Blackstone, Jr., for critically reviewing this map.

A colored copy of this map is available for examination at the Geological Survey of Wyoming Metals and Precious Stones Division office in Laramie.

PRECAMBRIAN GEOLOGY OF THE SEMINOE MOUNTAINS (IRON-GOLD) MINING DISTRICT,  
BRADLEY PEAK QUADRANGLE, CARBON COUNTY, WYOMING

by W. Dan Hausel

1991