

EXPLANATION

Qal	(Pleistocene?) Thin, bouldery stabilized talus sheets and cones of angular basaltic andesitic fragments mantling the summit of Black Mountain
Tba	(Miocene) Medium-to-dark-gray, fine grained sparsely porphyritic hornblende andesite; underlying Black Mountain
Tws	(Miocene) Thin bedded tuffaceous and diatomaceous, weakly cemented fine silty sandstone
Tts	
	(Oligocene) Singate Tuff. Coarse grained, hornblende-biotite quartz latite crystal tuff consisting of a multiple ash flow cooling unit in the Wassuk Range
Ttm	(Oligocene) Sticky Pass Tuff. Light pinkish red to medium reddish brown, pumaceous crystal-rich ash-flow tuff
Kqm	(Cretaceous) Homogenous, medium-grained, equigranular to sieriate sodic biotite-quartz monzonite which forms the bulk of the Bald Mountain pluton and core of the Gray Hills of the Schurz quadrangle
Kqmp	(Cretaceous) Medium-gray to pale greenish gray porphyritic quartz monzonite. The rock is very distinctive and contains up to 1 inch K-feldspar phenocrysts with smaller plagioclase and biotite phenocrysts in a fine grained matrix of feldspar and quartz
Jgdp	(Jurassic) Granodioritic porphyry dikes (Dilles, 1981)
Jqma	(Jurassic) Aplite and leucocratic graphic quartz monzonite (Dilles, 1981)
Jqmp	(Jurassic) Quartz monzonite dikes of the Yerington Batholith (Dilles, 1981)
Jd	(Jurassic) Altered-metamorphosed intrusions of dacite to quartz latite composition; alteration varies from moderate to intense quartz-sodicite with stockwork veining and 0-5 percent pyrite. The rock is highly iron oxide stained.
Jmgr	(Jurassic) Dark greenish gray quartz-diorite gradational to Jgr with moderate propylitic alteration. Damp material from the Lincoln dike also displays the altered-metamorphosed texture and contains epidote, chlorite, and secondary biotite. Veins cutting this rock contain a core of epidote, quartz, and feldspar with occasional chlorite and carbon along selvages. Tourmaline was also noted. Numerous hand samples contain massive magnetite and disseminated pyrite. This rock type is part of the Bald Mountain Pluton of the Schurz quadrangle
Jgr	(Jurassic) Medium-gray to greenish gray, epigranular, medium grained granodioritic and lesser quartz-diorite. The rock type is with Jdi in the area mapped also has minor to intense alteration-metamorphism overprint. Alteration is propylitic (epidote-chlorite-sodicite-magnetite); quartz over extensive areas, phyllitic (quartz-sericite-pyrite) in local areas, argillite (especially underground), local intense albitionization of plagioclase, and potassian secondary biotite and minor K-feldspar in local areas. Pyrite and chalcopyrite occasionally occur in veins or disseminations. This rock is also part of the Bald Mountain Pluton and considered by Dilles (1981) to be part of the Yerington Batholith
Jdi	(Jurassic) Represents a series of rock types of complex interrelationships that consist of dolomitized quartz-diorite, quartz monzonodiorite, and granite or monzonite. All rock types display alteration-metamorphism textures which include propylitic (chlorite-epidote-phyllite-sericitopyrite-iron oxide) albitionization of plagioclase, and potassian secondary biotite-K-feldspar. Metamorphism is evident by granoblastic recrystallization of interstitial quartz, and plagioclase, along with graphic-inymmetite intergrowths in plagioclase. Pyrite occurs locally and iron oxide staining is minor compared to the Trefe unit. No alteration zoning or patterns have been determined. Cutting Jdi are aplitic and aplite dikes, and minor tourmaline cemented breccia has been found as float. A uraninite-cassiterite of 230°C Y has recently been obtained by Dilles (1984) in SW corner, Sec. 18, T 13 N, R 28 E. This suggests that all the metadiorites are Late Triassic in age
Trefe	(Triassic) Extreme quartz-sericite-pyrite-iron oxide altered volcanics and lesser amounts of Jdi and Jgr. In many cases alteration has completely obliterated original textures except for a few relict phenocrysts. Argillic, propylitic, and albitionization alteration is also present in local areas. Pyrite was the dominant sulfide introduced (up to 7 percent) along with magnetite and minor chalcopyrite in some areas. Most of the sulfides and magnetite have been oxidized to iron oxide. Overall, the alteration represents phyllitic alteration common in porphyry copper deposits.
Tra	(Triassic) Pale bluish to greenish gray, and greenish black, porphyritic, fine grained meta-andesitic flows with minor interstratified sedimentary unit
Te	(Triassic) Metamorphosed intermediate volcanics and shallow intrusives ranging in composition from latite to rhyolite, minor interstratified sedimentary units
Tl	(Triassic) Gray to grayish white marble occurs only in two small outcrops in map area. The northernmost exposure contains chalcocite in veins and along bedding

