



**GEOLOGIC MAP OF  
THE BULL RUN MOUNTAINS,  
ELKO COUNTY, NEVADA**

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PLATE 1 PALEOZOIC STRATIGRAPHY AND  
TECTONICS OF THE BULL RUN MOUNTAINS,  
ELKO COUNTY, NORTHERN NEVADA

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- contact, dashed where location approximate or inferred.
- - - fault, dashed where location approximate or inferred, dotted where concealed.
- normal fault, low angle with marks on upper plate.
- normal fault, high angle.
- thrust fault, back on upper plate.
- strike and dip of bedding.
- beds with top indicators.
- beds with top indicators, overturned.
- strike and dip of foliation.
- minor fold, axial plane with trend and plunge of fold axis.
- syncline, axial plane with trend and plunge of fold axis.
- anticline, axial plane with trend and plunge of fold axis.
- overturned syncline, axial plane with trend and plunge of fold axis.
- overturned anticline, axial plane with trend and plunge of fold axis.
- well locality.

**EXPLANATION**

Quaternary	Qa	Unconsolidated stream, fan, slide, talus, and glacial deposits.
Middle Miocene	Ov	Altiplan conformity
	Tc	Reddish brown to gray rhyolite, with quartz and muscovite phenocrysts.
Upper Miocene	Tm	White to light brown, sandy shale and sandstone, conglomerate, outcropped shale, welded rhyolite and latite tuff.
	Tt	Chicken Creek Formation
	Tt1	Will bedded, brown sandstone, shale and conglomerate, grading westward to light colored shale.
Lower Miocene	Tm2	Course sandstone, conglomerate, shale and chert beds, with interbedded rhyolite, latite and dacite welded tuffs, chiefly in the lower part. Tm2 is cone fragments, derived from MP, and faulted against normal faults along the Bull Run Basin.
	Tm3	Mont Road Formation
Pliocene	Tv	Rhyolite, latite and dacite welded tuffs, with some sandstone and rhyolite flows. Tc, intrusive.
	Tw	Front Creek Volcanics
Upper Pliocene	Tp	Wilson Andesite
	MP	Angular unconformity
Miocene/Pliocene	MP	Schomover sequence
	MP	low angle normal fault

**MIOGEOCLINAL ASSEMBLAGE**

Chrd	Light to dark gray, massive or fragmental dolomite, with subordinate intraformational conglomerate at base, and thin bedded, oolitic and pisolitic dolomite at top.
Ce	Light greenish gray, phyllic shale and mudstone with lesser amounts of siltstone and fine sandstone. Bluish gray carbonate granitoids and intraformational conglomerate at top.
Cpu	Interstratified thin bedded, very fine- to fine-grained quartz arenite and gray siltstone. Transitional lithology between underlying Prospect Mountain Quartzite and overlying Edgemont Formation.
Zcpmq	Massive to thick bedded, planar cross stratified, fine- to coarse-grained light gray quartz arenite.
Zmc	This bedded, parallel laminated, greenish gray, silty limestone interstratified with gray, phyllic argillite and calcareous siltstone. Massive granitoids in upper part.

