

2011

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SUBEIC	
m	
	Mine dumps, ponds, and leach pads
Qp	Playa deposits (Quaternary)
Qal	Alluvium (Quaternary)
Qaf	Alluvial-fan deposits (Quaternary)
Ts	Sedimentary rocks (Miocene)
Tmr	Rhyolite dome (Miocene)
Tb	Basaltic andesite lava flows (Miocene)
Tbi	Basaltic andesite dikes (Miocene)
1	E TO OLIGOCENE ROCKS POSTDATING THE CAETANO CALDERA
Tfm	Fish Creek Mountains Tuff (Oligocene)
Tbu	Bates Mountain Tuff, undivided (Oligocene)
Tbd	D unit of Bates Mountain Tuff (Oligocene)
Tbc	C unit of Bates Mountain Tuff (Oligocene)
Tbb	B unit of Bates Mountain Tuff (Oligocene)
Ttu	Plagioclase-biotite tuff (Oligocene)
Tad	Andesite and dacite lava flows (Oligocene)
Tcs	Post-caldera sedimentary rocks (Oligocene)
Тg	Boulder- to pebble-conglomerate and sandstone (Miocene(?) to Eocene)
CAETAN	NO CALDERA
	Hydrothermally altered rocks
Large	e Intrusions
Tcc	Carico Lake pluton (Eocene)
Tcr	Redrock Canyon porphyry (Eocene)
Smal	Intrusions
Tci ₁	Porphyritic ring-fracture intrusion (Eocene)
Tci ₂	Fine-grained granite porphyry (Eocene)
Tci ₃	Flow-banded rhyolite ring-fracture intrusion (Eocene)
Extrusive Rocks	
Tct	Caetano Tuff, outflow sheet (Eocene)
Тсв	Caetano Tuff, meso- and megabreccia (Eocene)
Tcu	Caetano Tuff, upper intracaldera unit (Eocene)
Td	Caetano Tuff, lower intracaldera unit (Eocene)
Feed	er Dike
Tcf	Caetano Tuff, composite feeder dike (Eocene)
CENOZO	DIC ROCKS PREDATING THE CAETANO CALDERA
Tcm	Tuff of Cove Mine (Eocene)
Tpr	Porphyritic rhyolite dikes, sills, breccia dikes, domes, and minor tuff (Eocene)
Tpr	Porphyritic rhyolite, concealed (mapped from drill-hole data)
Тоа	Andesite lava (Eocene)
Tfv	Volcanic rocks of Fye Canyon (Eocene)
Tob	Basaltic lava flows (Eocene)
Td	Porphyritic dacite (Eocene)
TI	Limestone (Eocene)
Tog	Conglomerate and sandstone (Eocene)
and the second s	DIC INTRUSIVE ROCKS
Jgr	Mill Canyon stock and dikes (Jurassic)
PALEOZOIC ROCKS	
PALEOZ	
Pzo	Havallah sequence (Golconda allochthon) (Permian to Devonian)
Pzrm	Antler overlap assemblage (Permian to Pennsylvanian)
	Roberts Mountains allochthon (Devonian to Ordovician)
Pzlc	Limestone, dolomite, and quartzite (Devonian to Cambrian)

GEOLOGIC MAP OF THE CAETANO CALDERA, LANDER AND EUREKA COUNTIES, NEVADA

MAP 174

Text accompanies map

See accompanying text for full unit descriptions and references for this map.



Symbology

Contact Solid where observed in the field, dashed where interpreted from aerial photographs or satellite images, dotted where concealed.

Normal fault Solid where observed in the field, dashed where interpreted from aerial photographs or satellite images, dotted where concealed. Ball and bar on downthrown side.

Caldera margin Solid where observed in the field, dashed where interpreted from aerial photographs or satellite images, dotted where concealed. Tic marks on caldera interior.

Thrust fault Solid where observed in the field, dashed where interpreted from aerial photographs or satellite images, dotted where concealed. Teeth on hanging wall.

Strike and dip of bedding Strike and dip of compaction

foliation in ash-flow tuff

Geochronology sample locality Outcrop - Drill hole Outline of open-pit mine (ca. 2010)

-A'

Line of cross section