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The volcanic rocks of the Infiernito and Chinati calderas are discussed in relation to mineralization later in the text. The two oldest and possibly coeval volcanic sequences are exposed adjacent to the Chinati Mountains caldera. They are the Morita Ranch Formation and the rocks of the Infiernito caldera.

CALDERAS AND MINERALIZATION: CALDERA COMPLEX, TRANS-PECOS ...

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Mineralization is not found in all calderas but is apparently restricted to calderas that had complex, postsubsidence igneous activity. A comparison of volcanic setting, volcanic history, caldera evolution, and evidence of mineralization in Trans-Pecos to those of the San Juan volcanic field, a major mineral producer, indicates that Trans-Pecos Texas also could be an important mineralized region.

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Calderas are some of the most spectacular features on Earth. They are large volcanic craters that form by two different methods: 1) an explosive volcanic eruption; or, 2) collapse of surface rock into an empty magma chamber. The accompanying image is a satellite view of one of the most famous calderas - Crater Lake in Oregon.

Caldera: Crater Formed by Volcanic Collapse or Explosion

Caldera. Magma is stored beneath a volcano in a magma chamber. When a very large explosive eruption occurs which empties the magma chamber, the roof of the magma chamber can collapse forming a depression, or bowl on the surface which has very steep walls. These are calderas and can be tens of miles across.

Types of volcano - British Geological Survey

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Following caldera collapse, seawater infiltrated the volcano through fault-controlled permeability, interacted with wall rock and the segregated brines, and transported associated metals toward the seafloor and formed Cu-Zn-Au-rich chimneys on the caldera walls and rim, a process continuing to the present day.

Critical role of caldera collapse in the formation of ...

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The veins cut rocks deposited within and over the caldera and it is proposed that the dominant controls of mineralization were volcanogenic. Circulation in hydrothermal cells, involving both juvenile fluids and seawater, deposited the minerals at a late stage in the evolution of the caldera. © Geological Society of London 1985

Volcanogenic mineralization related to the Snowdon ...

Geology and Geophysics. Exploration Geophysics ... Mineralization in Silicic Calderas: Questa, New Mexico and the San Juan Mountains ... the Taos Range is composed largely of Precambrian rocks partly mantled by mid-Tertiary volcanic rocks of the Latir volcanic field and invaded by coeval and cogenetic granitic rocks related to the caldera ...

Mineralization in Silicic Calderas: Questa, New Mexico and ...

Porphyry copper mineralization is closely related spatially to caldera-forming magmas, but the petrologic relations and timing require more rigorous

evaluation. Elsewhere, important mineralization...

(PDF) Relation of mineralization to calderas in the San ...

mineralization is spatially related to the calderas that formed from 29 to 27 Ma, Lipman and others (1976) demonstrated that the large epithermal vein deposits are 10-15 Ma younger. The caldera-forming eruptions produced fractures and faults suitable for later mineralization but appear to have depleted the associ

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