

## The Geochemistry And Alteration Of The White Devil

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alteration which is exposed in nearly 1,000 feet of relief. The petrology and geochemistry of the surficial alteration were examined in order that boundary conditions might be established for the temperature and composition of the altering fluids. The characteristic pattern of

### [ALTERATION AND GEOCHEMISTRY OF THE](#)

The geochemistry and alteration of the White Devil porphyry: implications to intrusion timing [Huston, D. L.; Cozens, G. J. Abstract. Quartz-feldspar porphyry dikes in and around the White Devil ore deposit are weakly to strongly altered, with weakly altered cores grading outward toward intensely chloritized marginal zones in contact with ...](#)

### [The geochemistry and alteration of the White Devil...](#)

Abstract. This paper describes the igneous geology, alteration mineralogy, and geochemistry, as well as the ore mineralization history of Bajo de la Alumbrera, a world-class porphyry copper-gold deposit in northwestern Argentina. The deposit occurs in the K-rich calc-alkaline Farallo n Negro Volcanic Complex, located 200 km east of the main Andean porphyry copper belt of Chile.

### [Geology and Alteration Geochemistry of the Porphyry Cu-Au ...](#)

Red Butte is located 60 km south of Vale, Oregon, about 20 km west of the Oregon/Idaho border. The butte is within the Owyhee Upland physiographic province of eastern Oregon which lies at the intersection of the Western Snake River Plain, the High Lava Plains, and the Northern Basin and Range provinces. The butte is composed of Miocene to Pliocene lacustrine and fluvial volcanoclastic sediments.

### ["The Geology, Geochemistry, and Alteration of Red Butte ...](#)

Corpus ID: 127695472. [Geochemistry and Alteration Mapping of the Paboase Deposit at Chirano Gold Mines, Ghana @inproceedings\(Afloe2014GeochemistryAA, title=\(Geochemistry and Alteration Mapping of the Paboase Deposit at Chirano Gold Mines, Ghana\), author=\(A. B. Afloe\), year=\(2014\) }](#)

### [Geochemistry and Alteration Mapping of the Paboase Deposit ...](#)

Geochemical data show these dikes to have been feeders for the overlying lava flows. Differing degrees of alteration of the dikes relative to the most intensely altered pyroclastic rocks which they cut indicates a complex history of overlapping hydrothermal and volcanic activity at the prospect.

### ["Geochemistry of alteration and mineralization of the Wind..."](#)

The geochemistry of host rocks, alteration zones, and mineralized ore bodies have been investigated in the Guijeh Qaleh deposit to characterize the distribution pattern of iron ores and associated trace elements, the correlation between the ore and trace elements as well as the RREs.

### [Geology, geochemistry, fluid inclusion and genesis of the ...](#)

Ankeritic alteration zones are associated with gold mineralisation in the Nugget vein system, Shotover valley, northwest Otago. These zones consist of sheared and brecciated schist in Miocene normal faults. The zones are also extensively silicified.

### [Hydrothermal alteration geochemistry of Nugget gold vein...](#)

The Animas River watershed study area was subdivided into five discrete areas that represent the major styles and ages of mineralization and alteration in this area: (1) Mount Moly area—26–25 Ma molybdenum–copper porphyry mineraliza- tion, (2) Red Mountains and (3) Ohio Peak–Anvil Mountain areas (OPAM)—sites of 23-Ma acid-sulfate mineralization, (4) Eureka Graben and (5) South Silverton areas—18–10 Ma northeast- and northwest-trending polymetallic veins, respec- tively.

### [Major Styles of Mineralization and Hydrothermal Alteration...](#)

Geochemical results. The Bjørndalen transect in the Fen complex provides a complete record of the gradual transformation from igneous carbonatite to rødbergite ( Fig. 5 ). The progressive alteration is clearly visible at outcrop scale due to a change in colour (reddening) and texture (grain size reduction) of the rock.

### [The hydrothermal alteration of carbonatite in the Fen ...](#)

Geochemistry of Hydrothermal Alteration in Volcanic Rocks 45 permeability, provide pathways for mineralizing solutions. Towards the top of the mineralized zone, the texture is obliterated due to the intense silicification that has erased the lithological characteristics of the affected rocks (Maiza et al., 2009).

### [Geochemistry of Hydrothermal Alteration in Volcanic Rocks](#)

A pre-impact hydrothermal alteration, often along shear zones, is characterized by new growth of seco ndary minerals, such as chlorite, sericite, sulfides, and quartz, or replacement of some primary minerals, such as plagioclase and biotite, by secondary

### [Petrography, geochemistry, and alteration of country rocks ...](#)

Geochemistry can reflect the connection between surface rocks and deep geological bodies (Armstrong-Altrin et al., 2016; Eltom et al., 2016; Xiao et al., 2020). Thus, the conceptual model can be summarized as follows: (1) Alteration by deep hydrothermal fluids can influence the geochemistry at the surface due to penetration by faults and fractures.

### [Three-dimensional modelling of alteration zones based on ...](#)

Abstract. Carbonate sediments and rocks are valuable archives of Earth's past whose geochemical compositions inform our understanding of Earth's surface evolution. Yet carbonates are also reactive minerals and often undergo compositional alteration between the time of deposition and sampling and analysis. These changes may be mineralogical, structural, and/or chemical, and they are broadly referred to as diagenesis.

### [The Role of Diagenesis in Shaping the Geochemistry of the ...](#)

Ignimbrite is a variety of hardened tuff. Ignimbrites are igneous rocks made up of crystal and rock fragments in a glass-shard groundmass, albeit the original texture of the groundmass might be obliterated due to high degrees of welding.The term ignimbrite is not recommended by the IUGS Subcommittee on the Systematics of Igneous Rocks.. Ignimbrite is the deposit of a pyroclastic density ...

### [Ignimbrite - Wikipedia](#)

Geochemistry is broadly concerned with the application of chemistry to virtually all aspects of geology. Inasmuch as the Earth is composed of the chemical elements, all geologic materials and most geologic processes can be regarded from a chemical point of view.

### [Geology - Geochemistry | Britannica](#)

Abstract. Processes of mineral alteration involving the mobilization and deposition of more than 30 chemical elements during bauxite formation and epigenesis have been studied on specimens from the Devonian Schugorsk bauxite deposit, Timan, Russia. Chemical analyses of the minerals were obtained by electron microprobe and element distribution in the minerals was studied by element mapping.

### [Mineralogy and geochemistry of trace elements in bauxites ...](#)

The chemical index of alteration (CIA) using molecular proportions: CIA = [Al2O3/ (Al2O3+CaO\*+Na2O+K2O) × 100 where CaO\* is the amount of CaO incorporated in the silicate fraction of the rock.