

Las cordilleras de C.R. son formadas principalmente de Traquita, cuya massa se encuentra interrumpida por capas volcánicas más oscuras y más duras, mezcladas con anguita.

Los volcanes son masas de traquita que han perforado las antiguas capas de sedimentos y las formaciones plutónicas; lavas y toba (piedra tosca) constituyen las formaciones más recientes.

Segun Dr. W. Lehmann.

eventual
with specimens
sent by Prof. Tristram

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- 1 Halloysite or similar material related to Kaolin; results from alteration of rocks of near the composition of Feldspar. Halloysite when sufficiently pure is used for making alum.
- 2 Andesite, highly mineralized with pyrite
- 3 Dacite. Somewhat altered
- 4 Seems to be an altered perlite, a glassy rock of this character that has become devitrified and probably taken up water.
- 5 Compacted ash or Tuff. Fine Grained.
- 6 Coarse grained Volcanic breccia or Coarse Tuff.
- 7 A Kaolinized igneous rock, the alteration due to Solfataric action. The original rock was probably a Rhyolite or Dacite before the alteration.
- 8 Rhyolite, partly altered by formation of Kaolin from the Feldspar.
- 9 An Andesite, partly Kaolinized, and with development of secondary pyrite.
- 10 Andesite Lava, unaltered. (pyroxene andesite)

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- 11 Kaolin from alteration of (probably) Rhyolite Lava
- 12 Rhyolite, somewhat altered.
- 13 Altered Rhyolite (Feldspar is kaolinized)
- 14 altered Dacite, much stained by limonite on the surface. The feldspar is partly kaolinized.
- 15 Dacite, somewhat altered and with development of a large amount of pyrite in the dark colored rim at one side; highly mineralized at this point.

Note:

All of these Reventado rocks are somewhat altered, evidently by hot water and steam mainly, and the silicates have become hydrated. Thus the feldspar is converted to Kaolin, and are to Halloysite, hydrated silicates of alumina. They appear to be Dacites and Rhyolites, but 2, 9, 10 seem to be Andesites; in the alteration, the alkali silicate of the feldspar is ~~removed~~ removed to a greater or less extent, doubtless in 1 and 11 it is completely removed. The Solfataric action that has caused the alteration of the feldspar has produced a mineralization, depositing pyrite in some cases (as in 2, 15, for example). This material might be ore of, say, gold or silver.