

Appendix – 16



Plate 1 Villa Aguas Calientes district : A view of the alteration zone seen in the NW slope of Cerro La Puntilla



Plate 2 Villa Aguas Calientes district : Quartz vein in granitic rock along the lower stream of Atreuco creek



Plate 3 Villa Aguas Calientes district : Network of quartz veinlets in granitic rock along the lower stream of Manchana Covunco creek



Plate 4 Varvarco district : A view of the white argillized and silicified zone along the upper stream of Auquen creek



Plate 5 Varvarco district : A view of the no-named open pit located in the lower part of a branch of Guaraco Norte creek



Plate 6 Varvarco district : A trench and drift entrance of Mina Santos located in the upper stream of Guaraco Norte creek



Plate 7 Varvarco district : Ore samples of chalcopyrite-bearing pyrite quartz vein (left) and quartz vein with malachite and azulite (right), collected in the stock pile of Mina Santos



Plate 8 Cerro Collocho district : A view of the alteration zone of the Cerro Collocho



Plate 9 Cerro Collocho district : A zone of limonite (after pyrite) -quartz vein in the silicified dacitic andesite

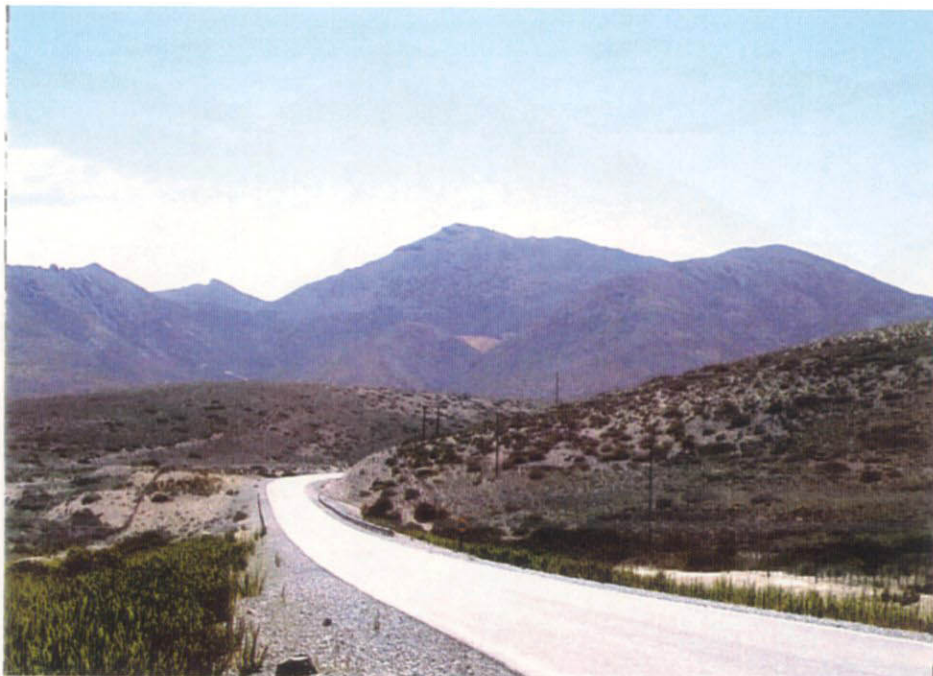


Plate 10 Cerro Mayal district : A view of Cerro de Mayal Mahuida, argillic alteration seen on the middle slope of the mountain



Plate 11 Cerro Mayal district : An old trench located near the peak of the mountain



Plate 12 Cerro Mayal district : A view of the alteration zone located on a small ridge in the eastern side of the mountain



Plate 13 Cerro Mayal district : Float rocks with malachite along crack



Plate 14 Cerro de los Bueyes district : A view of Cerro de los Bueyes. The bedded sedimentary rocks around the central peak is widely altered.

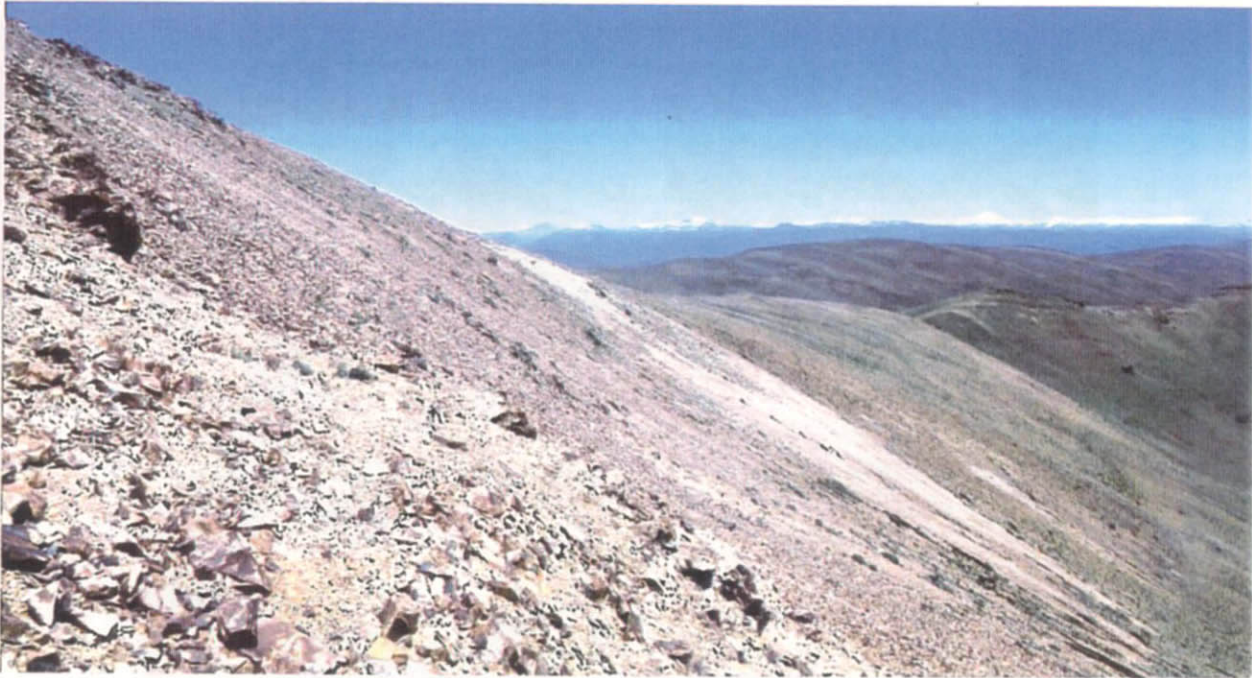


Plate 15 Cerro de los Bueyes district : A view of white argillic alteration near the top of the mountain



Plate 16 Cerro de los Bueyes district : An outcrop of bedded mineralized sandstone and shale. The sandstone is selectively replaced by marcasite and quartz



Plate 17 Cerro de los Bueyes district : A view of Cerro los Potreritos with an alteration zone on the top of and behind the mountain



Plate 18 Campana Mahuida district : A view of the Pino Andino prospect area



Plate 19 Campana Mahuida district : An outcrop of the hydrothermal breccia



Plate 20 Campana Mahuida district : Macroscopic view of a hydrothermal breccia with large quartz crystals



Plate 21 Campana Mahuida district : A short trench with a stock pile of barite ore with malachite



Plate 22 Campana Mahuida district : Thick Quaternary sediments in the West side of the Pino Andino prospect area



Plate 23 Palau Mahuida district : A silicified and argillized zone. In the far right side, pyrite-limonite are disseminated in yellow-brown zone. In the near side, gray colored andesite porphyry is fresh (ZA007).



Plate 24 Palau Mahuida district : An outcrop of silicified and argillized rock with pyrite or limonite dissemination (ZA007).



Plate 25 Nireco district : An outcrop of silicified and argillized rhyolite with limonite or jarosite dissemination (ZA007).

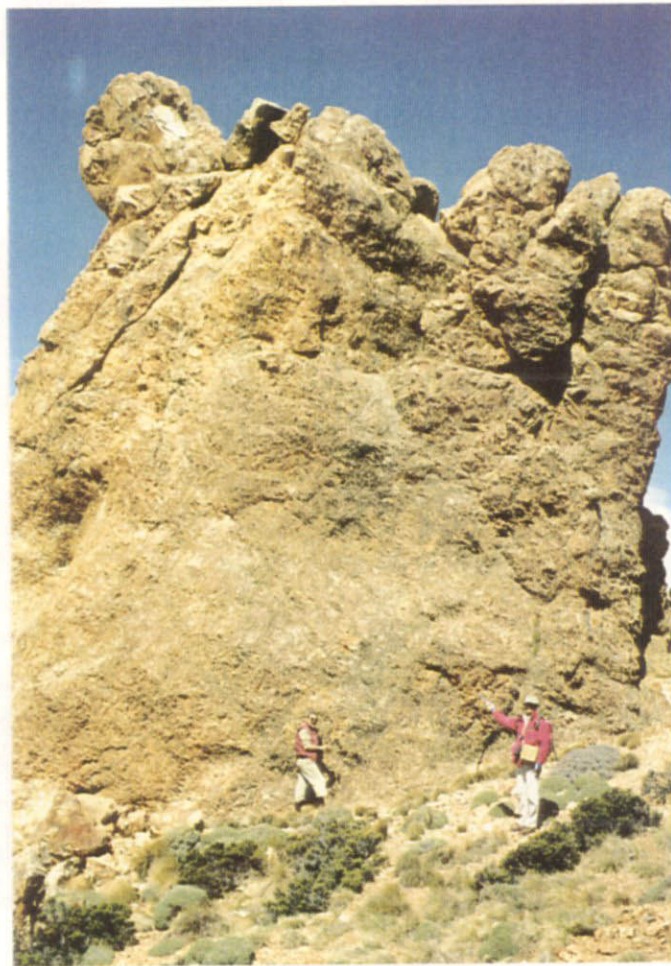


Plate 26 Nireco district : A steeple like silicified and argillized rhyolite with flow band (ZA023).



Plate 27 La Voluntad district : An outcrop of hydrothermal breccia which crosscuts silicified and argillized banded rhyolite (ZA032).



Plate 28 La Voluntad district : An outcrop of silicified and argillized banded rhyolite (ZA032).



Plate 29 Rio Foyel district : A quartz vein hosted in weakly altered granitoid (SB068).



Plate 30 Rio Foyel district : A silicified and argillized zone distributed around the ridge of Cerro Carrera. A dark colored zone in the center is a fresh basalt dyke (SB068).

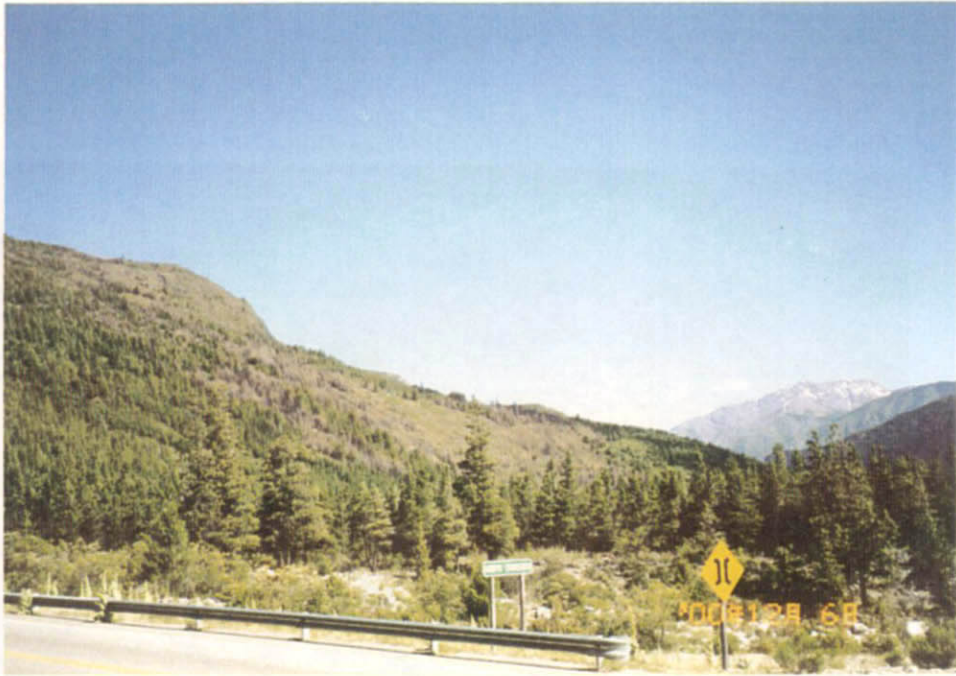


Plate 31 Condorcanqui district : A distant view of the Condorcanqui district from No. 258 National road.

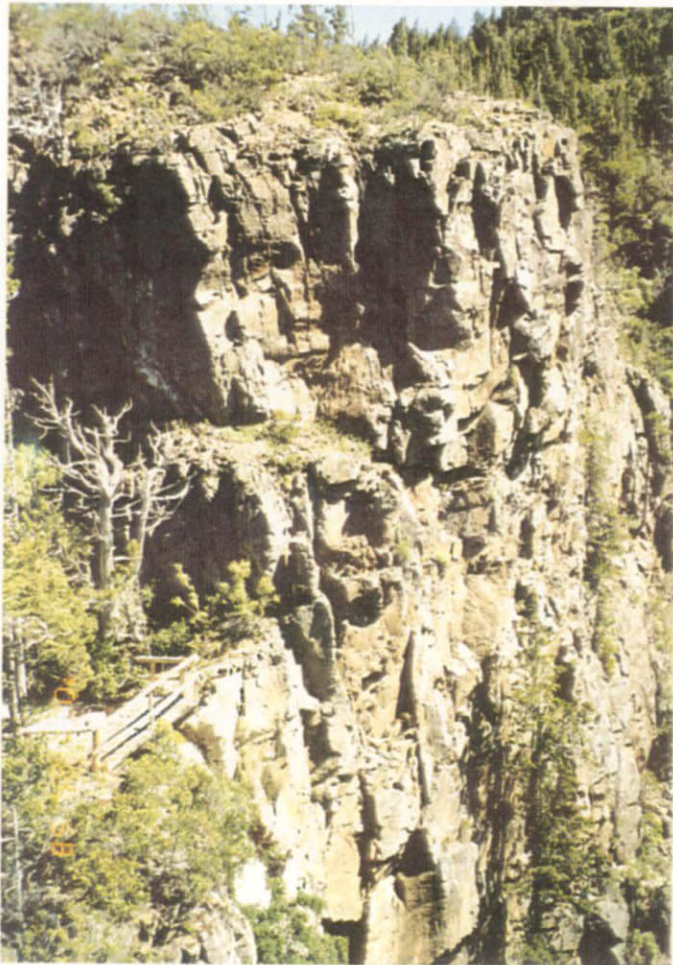


Plate 32 Condorcanqui district : Large outcrop of andesite lava in the upper stream of Arroyo Buen Sonido. K-Ar radiometric dating revealed 28.1 ± 1.4 Ma.



Plate 33 Condorcanqui district : Post-mineralization andesite dyke in the host rock andesite of malachite. K-Ar radiometric dating of dyke revealed 108 ± 5 Ma.



Plate 34 Epuyén district : A distant view of Cordón de Cholila from south.



Plate 35 Epuyén district : Reddish brown colored mineralized outcrop along Rio Blanco.
Host rock is quartz porphyry.



Plate 36 Epuyén district : Quartz vein with limonite in the mineralized outcrop of
Plate 35. Chemical analysis revealed 9.14g/t Au.



Plate 37 Epuén district : White quartz vein of 1m width at Epuén lakeside. Host rock is silicified sandstone of Jurassic.



Plate 38 Laguna Sunica district : A distant view of alteration zones of Laguna Sunica from northwest.



Plate 39 Laguna Sunica district : Zeolite veinlets network in altered basalt of the Ventana formation of Paleogene.



Plate 40 Cerro Gonzalo district : A distant view of Sector 2 to Sector 6 from northeast. Sector 2 is prominent outcrop in left side. Sector 6 is on high land of right side.



Plate 41 Cerro Gonzalo district : A view of Sector 1 (Arroyo Luque) from southwest.
Hypogen porohyry Cu deposit exposes along the river.



Plate 42 Cerro Gonzalo district : Reddish limonitic zone on a hill of Sector 1 (Arroyo Luque). Malachite is partially observed.

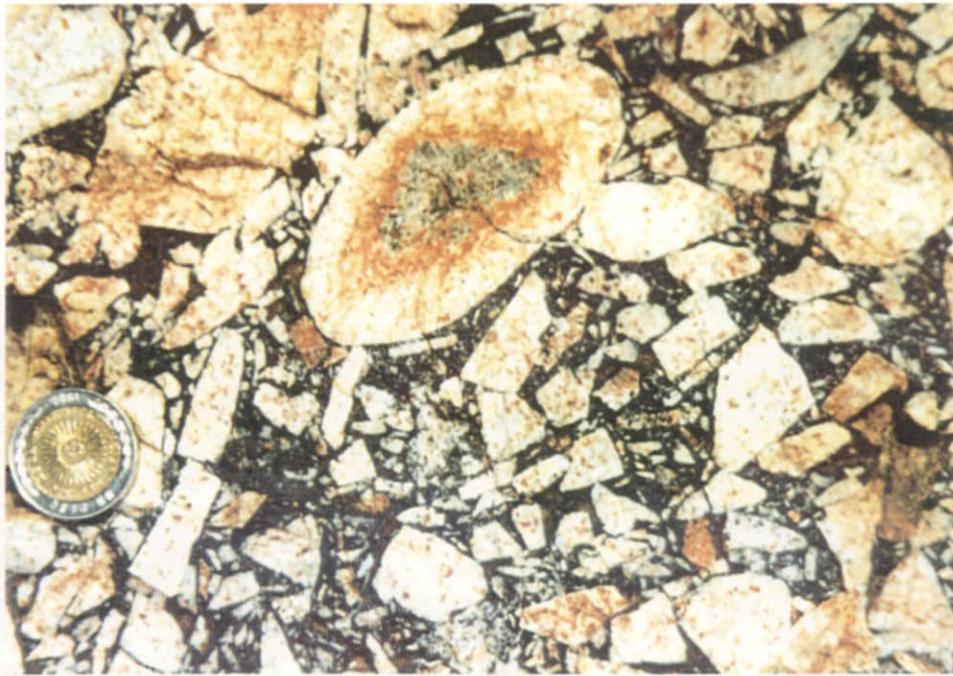


Plate 43 Cerro Gonzalo district : Hydrothermal breccia in Sector 3. Matrix part is filled with black tourmaline of fine size.



Plate 44 Arroyo Cascada district : A distant view of Arroyo Cascada from east.



Plate 45 Arroyo Cascada district : Quartz veins of relative flat structure in silicified andesite of Jurassic. 4.07g/t Au was revealed.



Plate 46 Arroyo Cascada district : Quartz veinlets network in microdiorite in the southeast part of alteration zone.



Plate 47 Cerro Cuche district : A view of steep slopes with alteration zones from south.



Plate 48 Cerro Cuche district : A view of alteration zones in lower part. It is seen from northern higher point.