

and pyrite. The gangue mineral is quartz. Fluid inclusions in the quartz are 2-phase vapor-liquid inclusion, and their mean homogenization temperature is 142.95° C indicating epithermal mineralization.

Au-Ag-Cu-Mo-Pb-Zn-As rock geochemical anomalies were detected in this area.

The Upper Jurassic System, Lower Cretaceous Systems, granodiorite bodies, and the vein deposit are located in a zone where the following four airborne magnetic zones overlap; intermediate intensity zone, periphery of medium wavelength high anomaly zone, medium wavelength low anomaly zone, and short wavelength high anomaly zone.

2 · 22 District to the west of Putre

A geological map of this area is shown in Figure 2-2-95, schematic geologic columns in Figure 2-2-96, mineral showings in Figure 2-2-97, distribution of altered minerals in Figure 2-2-98, and rock geochemical anomaly distribution in Figure 2-2-99.

The geology of this area is composed of Lower Cretaceous System, Neogene System, Upper Neogene-Quaternary System, Quaternary System, and intrusive bodies.

The Lower Cretaceous System consists of sandstone and is intruded by granodiorite. The following K-Ar ages of weakly-altered intrusive rocks were obtained; 56.0 ± 1.5 Ma (sericite), 55.1 ± 1.9 Ma (whole rock), 53.8 ± 1.4 Ma (biotite), 53.8 ± 1.3 Ma (biotite), 52.8 ± 1.4 (sericite), and as for the ages of intermediate to strongly altered rocks; 50.4 ± 2 Ma (sericite), 50.0 ± 1.2 Ma (biotite), and 44.4 ± 2 Ma (sericite) were obtained.

The Lower Cretaceous System and the above intrusive bodies are unconformably overlain by Neogene units.

The Neogene System consists of Miocene-Pliocene ignimbrite (rhyolitic welded tuff).

The Upper Neogene-Quaternary System is composed of, from bottom upward; conglomerate, ignimbrite (pumiceous tuff), and basalt lava, these units have unconformable relation to each other.

The Quaternary System is alluvium.

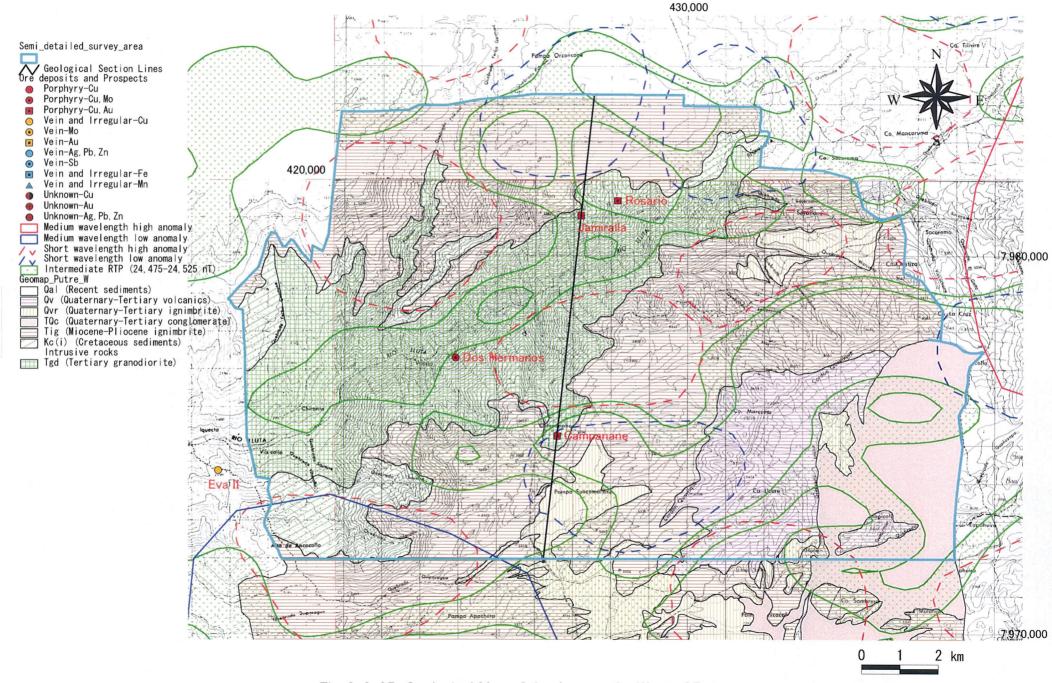
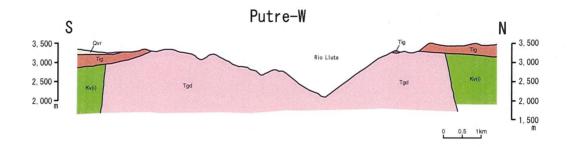
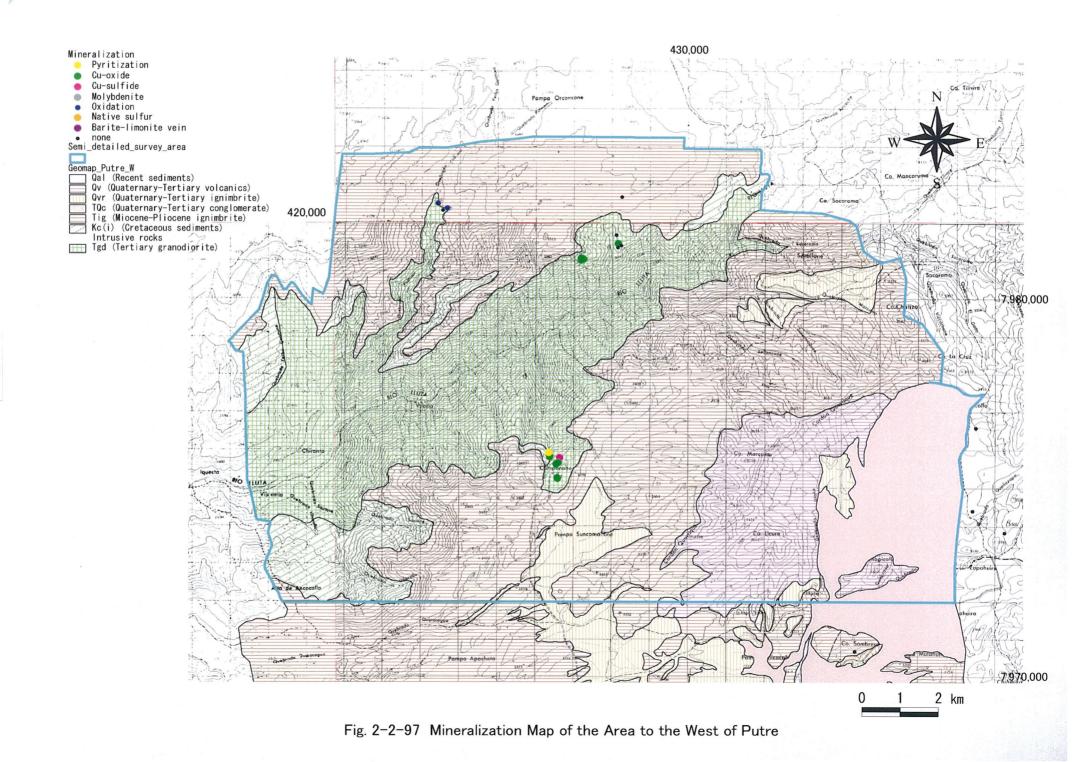


Fig. 2-2-95 Geological Map of the Area to the West of Putre



Geologic Time			Columnar Section	Lithology	Intrusives	Mineralization
CENOZOIC	QUATER -NARY	HOLOCENE	Gal Co	Alluvium		
	QUATERNARY ~ TERTIARY		(Basalt lava		ite, tourmaline)
			_ = _ = _ Qvr_ = _ = _ =	Pumice tuff		
			500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Conglomerate		
	TERTIARY	PLIOCENE ~ MIOCENE		Welded tuff		Porphyry copper type (py, sericite, tourmaline)
		PALEOGENE	Ke(i) + + + + + + + + + + + + + + + + + + +		ſgd) →	
MESOZOIC	CRETACEOUS	LATE			Granodiorite (Tgd)	
		EARLY		Sandstone		

Fig.2-2-96 Schematic Stratigraphic Columns and Profiles of the Area to the West of Putre



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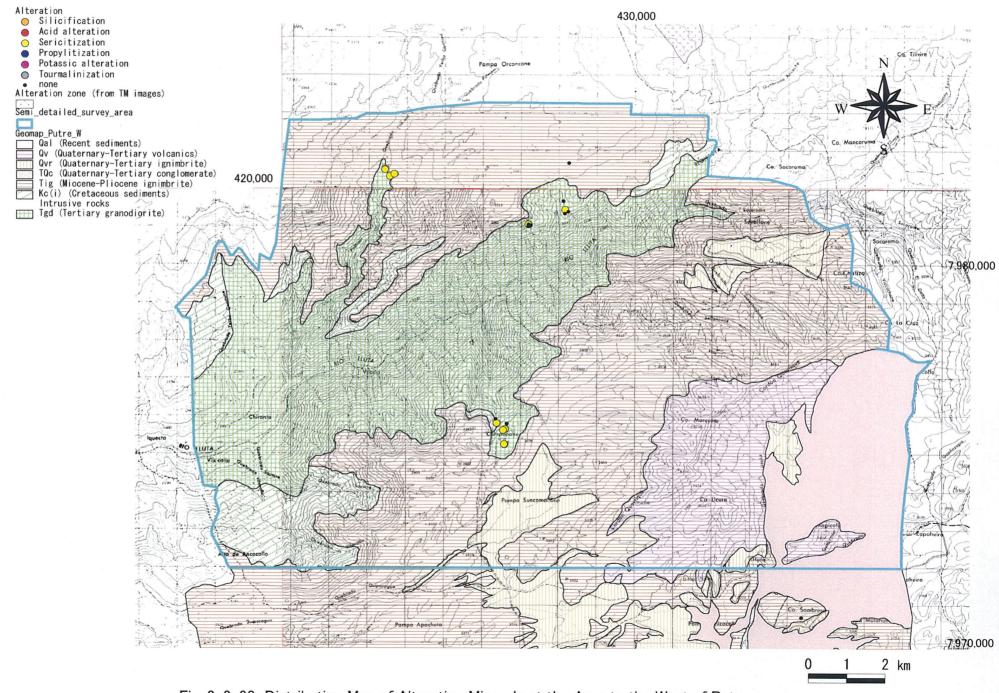


Fig. 2-2-98 Distribution Map of Alteration Minerals at the Area to the West of Putre

Fig. 2-2-99 (1) Geochemical Anomaly Map in the Area to the West of Putre (Au)

Fig. 2-2-99 (2) Geochemical Anomaly Map in the Area to the West of Putre (Ag)

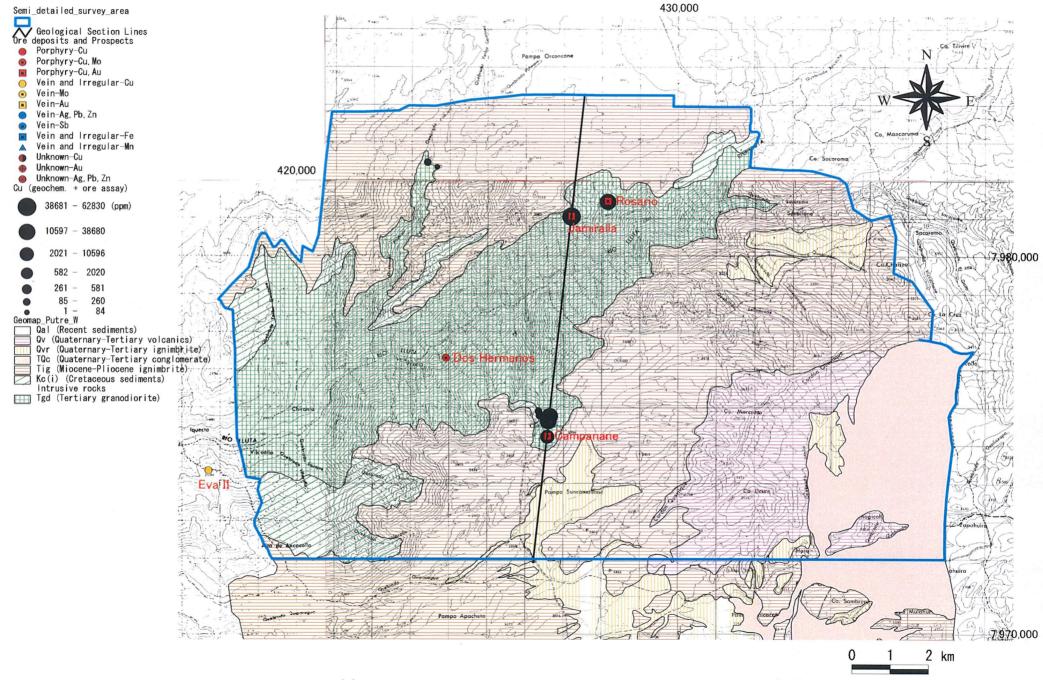


Fig. 2-2-99 (3) Geochemical Anomaly Map in the Area to the West of Putre (Cu)