

These camps and others in British Columbia are a source of great mineral wealth. In 1935 that province produced 99.3 p.c. of the lead, 79.6 p.c. of the zinc, 9.3 p.c. of the copper, 55.2 p.c. of the silver, and 11.9 p.c. of the gold produced in the whole of Canada. Coal is also abundant in the Rocky mountains and on Vancouver island. The greater part occurs in beds of Cretaceous age, though coals of Tertiary age have wide distribution also. Deposits of iron occur also at many localities in the Cordilleran region, as, for example, on Vancouver and Queen Charlotte islands; they consist of magnetite with pyrite and chalcopyrite developed along the contacts of granite, granodiorite or diorite with limestone, and were apparently formed under conditions of contact metamorphism.

Placer deposits occur at various places in the Cordilleran region. The gold of Klondike region, Yukon, the gold of the Cariboo country, and the platinum of Tulameen district are notable examples.

### 6.—Economic Geology of the Cordilleran Region.

Geological Formation.	Mineral Deposits.	
	Minerals Present.	Geological Habit.
<b>RECENT AND PLEISTOCENE—</b>		
Fluvatile, lacustrine, glacial.....	Magnesium sulphate..... Gold, platinum.....	In beds. Placers.
<b>TERTIARY—</b>		
Pliocene, gravels.....	Gold, platinum.....	Placers.
Oligocene, volcanics.....	Mercury.....	In veins.
Conglomerates, sandstones, shales.....	Coals.....	In beds.
Eocene, conglomerates, sandstones, volcanics.....	Refractory clay.....	In beds.
<b>MESOZOIC—</b>		
Upper Cretaceous.....	—	
Sandstones, shales.....	Coal.....	In beds.
Batholithic intrusives (post-Triassic, Mesozoic, and Tertiary).	Gold, silver, copper, lead, zinc.	In veins.
Lower Cretaceous.....	—	
Sandstones, shales, conglomerates.....	—	
Kootenay coal measures. Volcanics.....	Coal.....	In beds.
<b>JURASSIC.</b>		
Fernie shales of Rocky mountains.....	—	
Volcanics of interior and coast.....	—	
	Gold, silver, lead, zinc, copper, iron.	In veins, impregnations in shear zones, replacements, and contact deposits related to the Coast Range batholith.
Triassic, basic volcanics with limestone.....		
<b>PALÆOZOIC—</b>		
Permian, shale, slate.....	—	In veins.
Pennsylvanian.....	—	
Quartzite, limestone volcanics.....	Silver, lead, copper.	
Mississippian.....	—	
Shale, limestone.....	—	
Devonian.....	—	
Limestone, slate.....	—	
Silurian.....	—	
Limestone.....	—	
Ordovician.....	—	
Shales, slate, limestone.....	—	
Cambrian.....	—	
Limestone, shales, quartzites.....	Zinc, lead.....	Replacements related to post-Triassic intrusives.
<b>PRECAMBERIAN—</b>		
Windermere } series, schist, slate.....	—	
Purcell }.....	—	
Quartzite, metargillites, limestone.....	Zinc, lead, pyrite.....	Replacements related to batholithic intrusives.
Shuswap series.....	—	
	Silver, lead, zinc.....	In veins and replacements.