

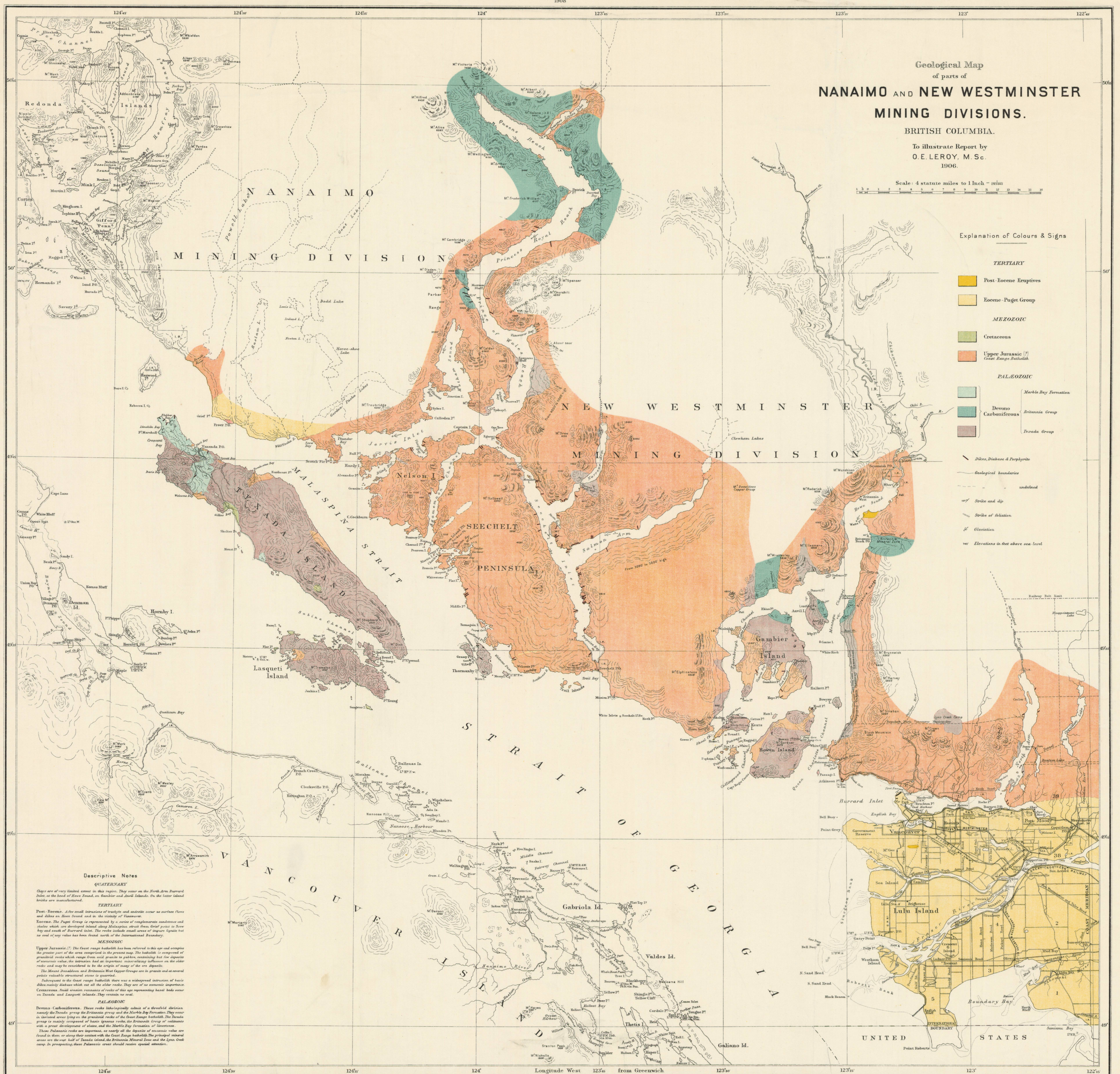
Geological Map
 of parts of
NANAIMO AND NEW WESTMINSTER
MINING DIVISIONS.
 BRITISH COLUMBIA.

To illustrate Report by
 O. E. LEROY, M. Sc.
 1906.

Scale: 4 statute miles to 1 inch = 25mm

Explanation of Colours & Signs

- TERTIARY**
- Post-Eocene Eruptives
 - Eocene-Puget Group
- MEZOZOIC**
- Cretaceous
 - Upper Jurassic (?)
Coast Range batholith
- PALEOZOIC**
- Devono-Carboniferous
Marble Bay Formation
Brianonia Group
Terrada Group
- Diabase, Diabase & Porphyrite
 Geological boundaries
 undotted
 Strike and dip
 Strike of foliation
 Glaciation
 Elevations in feet above sea level



Descriptive Notes

QUATERNARY
 They are of very limited extent in this region. They occur on the North Arm, Burrard Inlet at the head of Howe Sound, on Gambier and several islands. On the latter island bricks are manufactured.

TERTIARY
 Post-Eocene. A few small intrusions of porphyry and andesite occur on surface flows and dikes on Howe Sound and in the vicinity of Vancouver.

Eocene. The Puget Group is represented by a series of conglomerate sandstones and shales which are developed inland along Malaspina Strait from Great Point to Howe Bay and south of Burrard Inlet. The rocks include small areas of impure lignite but no coal of any value has been found south of the International Boundary.

MEZOZOIC
 Upper Jurassic (?). The Coast Range batholith has been referred to this age and occupies the greater part of the area occupied in the present map. The batholith is composed of granitoid rocks which range from acid granite to gabbro, containing but few deposits of economic value, the intrusion had an important metamorphic influence on the older rocks and may be considered to be the origin of many of the ore deposits.

The Marine Straddlers and Brianonia West Group are in general not at several points valuable structural stone is quarried.

Subsequent to the Coast Range batholith there was a widespread intrusion of basic dikes mainly diabases which cut all the older rocks. They are of no economic importance.

Cretaceous. Small stream remnants of rocks of this age representing basal beds occur on Tonda and Langford islands. They contain no coal.

PALEOZOIC
 Devono-Carboniferous. These rocks lithologically admit of a threefold division namely the Terrada group, the Brianonia group and the Marble Bay Formation. They occur in scattered areas lying on the granitoid rocks of the Coast Range batholith. The Terrada group is mainly composed of basic igneous rocks, the Brianonia Group of sedimentary with a great development of shales, and the Marble Bay Formation of limestone.

These Paleozoic rocks are important, as nearly all the deposits of economic value are found in them, or along their contact with the Coast Range batholith. The principal mineral areas are the great bulk of Tonda island, the Brianonia Mineral Zone and the Lynn Creek camp. In prospecting these Paleozoic areas should receive special attention.

C. O. Smedley, B.A. Sc., Geographer & Chief Draftsman.
 I. N. Richard, B.A. Sc., Draughtsman.

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