Canada
Department of Mines

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GEOLOGICAL SURVEY

ECONOMIC GEOLOGY

NANAIMO SHEET
VANCOUVER ISLAND
BRITISH COLUMBIA

Scale, 1/62,500

Miles 1 ⅗ ½ ⅜ 0 1 2 3

Kilometres 1 0 1 2 3 4 5

Note. For practical purposes assume 1 MILE TO 1 INCH

MAP 160 A
(Issued 1916)

Scale, 100 Miles to 1 Inch.

GEOLOGY

C.H. CLAPP 1911

TOPOGRAPHY

R.H. CHAPMAN, (IN CHARGE) 1910
B.R. MACKAY 1910
F.S. FALCONER 1910
S.C. McLEAN, (TRIANGULATION) 1909

C.O. Senécal, *Geographer and Chief Draughtsman.*
G.G. Aitken *and* A.McGregor, *Draughtsmen*

To accompany Memoir by C.H. Clapp

LEGEND

List of Working Mines

1 Vancouver-Nanaimo Coal Mining Company; New East Wellington Mine.
2 Canadian Collieries (Dunsmuir) Company; Tunnel and Number One Mine.
3 " " " " ; Number Three Mine.
4 " " " " ; Number Two Mine.
5 " " " " ; Number Four Mine.
6 Western Fuel Company; Nanaimo or Number One Mine.
7 " " " ; Northfield or Brechin Mine.
8 " " " ; Protection Island Mine.
9 " " " ; Reserve Mine.
10 Pacific Coast Collieries; Fiddick or South Wellington Mine.
11 " " " ; Morden Mine.

Generalized Section

NANAIMO SERIES
UPPER CRETACEOUS

Gabriola formation	1400±ft.	
Northumberland formation	1150±ft.	
De Courcy formation	900±ft.	
Cedar District formation	750±ft.	
Protection formation	650±ft.	
Newcastle formation / Douglas coal / Newcastle coal	175±ft.	
Cranberry formation	400±ft.	
Extension formation	600±ft.	
Wellington coal / East Wellington formation	35±ft.	
Haslam formation	600±ft.	
Benson formation	100±ft.	

Symbols

Approximate boundary of area underlain by workable seam of Douglas coal

Approximate boundary of area underlain by workable seam of Newcastle coal

Approximate boundary of area underlain by workable seam of Wellington coal

Outcrop of workable coal seam *(position closely determined)*

Outcrop of workable coal seam *(position assumed)*

Outcrop of coal seam of undetermined value *(position closely determined)*

Outcrop of coal seam of undetermined value *(position assumed)*
dl. Douglas coal; nc. Newcastle coal; wt. Wellington coal

Unconformable contact of Nanaimo series with crystalline rocks *(position closely determined)*

Unconformable contact of Nanaimo series with crystalline rocks *(position assumed)*

Fault

Structure contours showing position or "lay" of the Douglas coal seam
(The contour interval is 250 feet. The figures represent depths below sea-level)

Structure contours showing position or "lay" of the Wellington coal seam
(The contour interval is 250 feet. The + figures represent heights above sea-level and the - figures depths below sea-level. The limit of error in the structure contours is about 250 feet)

Anticlinal axis

Synclinal axis

O 6 Coal mine shaft *(numeral refers to numbers in accompanying list)*

⟩— 10 Coal mine slope or tunnel *(numeral refers to numbers in accompanying list)*

O V Ventilating shaft

⟩— V Ventilating slope

O A Abandoned coal mine shaft

⟩— A Abandoned coal mine slope

× C Coal prospect

× M Mineral prospect

■ SS Sandstone quarry

▨ S-G Sand and gravel bank

▨ CY Clay pit

LEGEND

Culture

Streets, roads and buildings
Private roads, or roads not well defined
Trails
Railways
Mine tramways
Bridges
Churches
Schools
Post Offices
Cemeteries
Mines and quarries
Shafts
Tunnels
Prospects
Dams
Wharves
Lighthouses
Beacons
District boundaries
Section lines
Triangulation stations
Bench-marks
Section numbers

Water

Rivers and lakes
Watercourses with intermittent flow
Fresh marshes
Salt marshes
Tidal flats
Springs

Relief

Contours *(showing land forms and elevations above sea-level) interval 20 feet.*
Depression contours
Sand
Figures showing heights in feet above sea-level

Geographical position by triangulation based on U.S.C.& G.S. stations "Gonzales" and "Discovery", near Victoria.

Average magnetic declination, 25° East.

1570

G 3401 .C5 1910- G4 Obmap

160 A
Nanaimo
V. 1-2
A, Geol.

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GEOLOGICAL SURVEY
OF CANADA

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