

Location/Identification

MINFILE Number: 092GSW032

Name(s): MORDEN
 MORDEN COLLIERY, PACIFIC COAST

Status: Past Producer

Mining Method: Underground

Regions: British Columbia, Vancouver Island

BCGS Map: 092G001

NTS Map: 092G04W

Latitude: 49 05 53 N

Longitude: 123 51 59 W

Elevation: 45 metres

Location Accuracy: Within 500M

Comments: Part of the South Wellington coal seams, located east of the Nanaimo River about 3.2 kilometres from South Wellington (Geological Survey of Canada Paper 47-22, occurrence #67). Production for 1917 is included with the Fiddick (092GSW032).

Mining Division: Nanaimo

Electoral District: Nanaimo

Forest District: South Island Forest District

UTM Zone: 10 (NAD 83)

Northing: 5438718

Easting: 436755

Mineral Occurrence

Commodities: Coal

Minerals

Significant: Coal

Mineralization Age: Upper Cretaceous

Deposit

Character: Massive

Classification: Fossil Fuel, Sedimentary

Type: A04: Bituminous coal

Shape: Irregular **Modifier:** Folded

Comments: Seam strikes northwest and dips shallowly northeast.

Host Rock

Dominant Host Rock: Sedimentary

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Cretaceous	Nanaimo	Pender	-----

Isotopic Age	Dating Method	Material Dated
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Lithology: Coal, Shale, Sandstone, Conglomerate

Comments: The coal seam is part of the Douglas Seam in the Early Campanian Newcastle Member, Pender Formation.

Geological Setting

Tectonic Belt: Intermontane

Terrane: Overlap Assemblage

Physiographic Area: Georgia Depression

Metamorphic Type: Regional

Grade: HVol Bituminous

Inventory

No inventory data

Summary Production

		Metric		Imperial
	Mined:	250,220	tonnes	275,820 tons
	Milled:	0	tonnes	0 tons
Recovery	Coal	250,221,480	kilograms	551,643,935 pounds

Capsule Geology

The Morden mine operated on part of the Douglas Seam which occurs in the Early Campanian Newcastle Member within the Upper Cretaceous Pender Formation, Nanaimo Group. The seam strikes northwest and generally dips shallowly to the northeast. The Douglas Seam is highly volatile, bituminous rank coal and varies in thickness from 0.1 to 9.1 metres and averages between 1.5 to 1.8 metres. The seam is underlain by undulating shales and is overlain by conglomerate to shale and sandy shale.

The Morden mine opened in 1912 and operated between 1913 to 1921, then was shut down and re-opened for one year in 1930. The Morden mine was owned by Pacific Coast Coal Mines Ltd., which consisted of the Morden, Fiddick (092GSW034) and Suquash (092L 067) mines. Production for the Morden mine in 1917 is combined with the Fiddick. The mine was closed between 1921 and 1930. The shaft was re-opened briefly, in 1930, by Canadian Coal and Company, Ltd.; it produced a little over 3000 tonnes.

Bibliography

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Date Coded:	1985/07/24	Coded By:	BC Geological Survey (BCGS)	Field Check:	N
Date Revised:	1989/12/02	Revised By:	Laura L. Duffett(LLD)	Field Check:	N