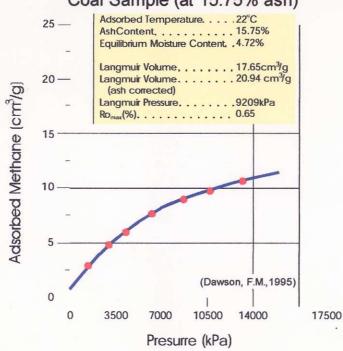
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Vancouver Island Coalfields Methane Potential

- Coal seams in the Nanaimo basin had the reputation of being very gassy below 200 metres
- Desorption tests on the Douglas seam in the Nanaimo basin indicated gas contents in the range of 173 to 259 scf/ton (6 to 12.5 x 10⁶ m³/tonne)
- In the Nanaimo coalfield, most of the methane potential will occur outboard of Vancouver Island as the major coal seams dip eastward into Georgia strait
- Total resource estimates for Vancouver Island range from 1.6 Tcf (45 billion cubic metres) to 0.5 Tcf (14 billion cubic metres)
- Average methane resource estimates for the three coalfields are: Comox, 800 Bcf; Nanaimo, 300 Bcf; and Suquash, 60 Bcf
- Gas pipeline passes through Comox and Nanaimo coalfields



Adsorption Isotherm of Quinsam Coal Sample (at 15.75% ash)

Significant Coal Resources on Vancouver Island of Immediate interest

Coalfield	Predominant	Measured	Indicated	Inferred	
	Rank	Rank (millions of	lions of ton	tonnes)	
Nanaimo	hvb	-	_	10	
Comox	hvb	10	50	100	
Quinsam**	hvb	25	30	50	
Suquash	hvb	-		40	
Totals	h-mvb	35	80	200	

**considered part of the Comox coalfield

(Smith, GG., 1989)

General Coal Quality Characteristics of Vancouver Island

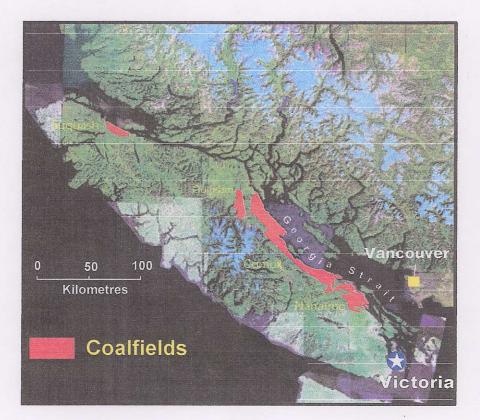
5 14 41 59 34.5 83.0	4 14 38 62 34.5	6 17 42 58 33.5
14 41 59 34.5	14 38 62	17 42 58 33.5
14 41 59 34.5	14 38 62	17 42 58 33.5
41 59 34.5	38 62	42 58 33.5
59 34.5	62	58 33.5
34.5		33.5
	34.5	
	34.0	
		-
02.0	+	
02.0	1	-
103.0	83.0	-
5.5	5.5	-
1.5	1.2	-
0.5	1.5	1.1
9.5	8.8	-
an and a strength		-
37.5	30.0	-
20.5	18.5	-
6.5	14.5	-
21.0	17.5	-
5.0	2.0	-
0.1	-	-
1.1	0.5	-
0.9	0.6	-
0.8	0.5	-
1.1	1.0	-
4.0	13.0	-
1.5	1.9	-
		-
		-
		-
		-
1265	1160	-
hybA/B	bybA/B	hvbB
	5.5 1.5 0.5 9.5 37.5 20.5 6.5 21.0 5.0 0.1 1.1 0.9 0.8 1.1 4.0	5.5 5.5 1.5 1.2 0.5 1.5 9.5 8.8 37.5 30.0 20.5 18.5 6.5 14.5 21.0 17.5 5.0 2.0 0.1 - 1.1 0.5 0.9 0.6 0.8 0.5 1.1 1.0 4.0 13.0 1.5 1.9

*dry, ash-free

**considered part of the Comox coalfield

(Smith, G.G., 1989)

Vancouver Island Coalfields



- Coal is present in Upper Cretaceous Nanaimo group strata, concentrated in three main coalfields: Nanaimo, Comox and Suquash
- Predominant coal rank high volatile bituminous
- The Nanaimo and Comox coalfields consist of simple gently dipping open folds offset by several large scale shear zones
- Coal has been mined to a depth of 450 metres but the coal measures have been traced to a depth of 1200 metres
- Various estimates of present coal resources to a depth of 2000 metres range from 800 to 6920 million tonnes and average 3850 million tonnes