

Occurrence Details

Occurrence Number: 106E 036 Occurrence Name: Pan Ocean Occurrence Type: Hard-rock

Status: Deposit

Date printed: 12/16/2025 5:57:38 AM

General Information

Primary Commodities: coal Aliases: West Illtyd Deposit Type(s): Coal

Location(s): 65°14'23" N - -135°0'58" W

NTS Mapsheet(s): 106E03 Location Comments: 1 Kilometres Hand Samples Available: No Last Reviewed:

Capsule

Work History

Acquired as Coal Exploration Licence #78 in Nov/77 by Pan Ocean Oil Ltd, which staked the mineral rights in Jun/78 as Illtyd cl (YA30809) and carried out geological mapping and drilled 2 holes (555 m) in 1980. The area was relicensed as #135 in Nov/80; and as CYM0012 by P. Wheelton in Dec/2001.

Capsule Geology

Three coal seams are present in a Late Cretaceous section of conglomerate, sandstone and shale in the lower part of the Bonnet Plume Formation. This deposit is a structural continuation of the Illtyd deposit. At its south edge, it is separated from the Pole (Wernecke) deposit by a ridge of Cambrian carbonate rocks. Structurally, the West Illtyd deposit is composed two east-plunging synclines, a broad northern fold and a tight southern fold, which are separated by a tight, probably faulted anticline around a Cambrian carbonate high. One hole was drilled in each structure. Hole 80-16 tested the north syncline and intersected seams # 4 and # 5. Hole 80-19 in the south syncline intersected seams # 3, 4 and 5. Inferred in-situ reserves are 47 560 000 tonnes of high volatile bituminous C non-coking coal.

References

AURUM GEOLOGICAL CONSULTANTS INC., 1994. Yukon Coal Inventory 1994. Energy and Mines Branch, Economic Development, Yukon Territorial Government, 169 p.

GEOLOGICAL SURVEY OF CANADA Paper 76-8; Paper 78-1A, p. 399-401.

GEOLOGICAL SURVEY OF CANADA, 1980. Open File 715.

NORRIS, D.K., ET AL., 1993. The geology, mineral and hydrocarbon potential of the Northern Yukon Territory and Northwestern District of Mackenzie. Geological Survey of Canada Memoir, in press.

PAN OCEAN OIL LTD, COAL DEPT, Jan/81. Assessment Report #062055 by O.R. Cullingham, G. Germscheid, D. Garrison, J.S. McKinney, A. Hargrave and D.C. Hope.

Work History

Date	Work Type	Comment			
12/31/1980	Drilling	Number of holes drilled: 2 Amount of work done: 555 METRES			
12/31/1980	Geology				

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<u>095826</u>	2004	Wind River Caolfield Assessment Report	Property Evaluation - Other		
<u>062149</u>	1982	Summary of Environmental Programs Competed in 1981, and an Outline of Projects Planned for 1982	Research/Summarize - Pre-existing Data, Environmental Assessment/Impact - Studies		
062143	1982	Bonnet Plume 1982 Water Sampling Program	Environmental Assessment/Impact - Studies		
062142	1982	Bonnet Plume 1982 Environmental Programmes	Environmental Assessment/Impact - Studies		
<u>092026</u>	1982	A Brief for the Development of a Coal Fired Thermal Power Station to Supply to Electricity to the Yukon Territory	Feasibility - Studies		
062150	1981	An Overview of the Vegetation, Wildlife and Fish Resources of the Bonnet Plume Lease, Northeastern Yukon Territory	Research/Summarize - Pre-existing Data, Biophysical Mapping - Studies, Environmental Assessment/Impact - Studies, Pre-feasibility - Studies		
		Draliminary Fascihility Mining Study Illhyd Creek Danacit Ronnet			

<u>062114</u>	1981	Plume Coalfield	Pre-feasibility - Studies		
<u>062055</u>	1980	Report on Geology an Exploration of the Bonnet Plume Basin Yukon Territory	Diamond - Drilling, Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Environmental Assessment/Impact - Studies, Resource Estimate - Studies	53	10700
<u>061966</u>	1980	Report on Geology an Exploration of the Bonnet Plume Basin Yukon Territory	Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Resource Estimate - Studies		
061888	1979	Report Reserves and Grade of Coal in the Bonnet Plume Basin	Feasibility - Studies, Preliminary Economic Assessment - Studies		
<u>061889</u>	1979	Economic, Environmental & Socio-Economic Considerations	Environmental Assessment/Impact - Studies, Preliminary Economic Assessment - Studies		
<u>061805</u>	1979	Report on the Geology of the Bonnet Plume Basin Yukon Territory as Determined by the 1978 Field Season	Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology		
061807	1978	Bonnet Plume Coalfield Tonnages and Grade of Coal in Support of a Proposed Thermal Generating Station in the Yukon Territory	Feasibility - Studies		
<u>061806</u>	1978	Yukon Thermal Power Generating Study for Pan Ocean Oil Limited	Feasibility - Studies		

Resource/Reserve

Year	Zone	Туре	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off
1980	WEST ILLTYD (OPEN PIT)	Historical Estimate	coal	23297.2 kJ/kg	47,560,000		No	No	Unknown

High quality thermal coal ranked as volatile C bituminous. Weighted average proximate analysis of 14.3% Ash.; Assessment Report #062055 by O.R. Cullingham.