



Occurrence Details

Occurrence Number: 106E 036
Occurrence Name: Pan Ocean
Occurrence Type: Hard-rock
Status: Deposit
Date printed: 4/29/2025 2:21:50 AM

General Information

Primary Commodities: coal
Aliases: West Illyd
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 Illyd 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 Illyd deposit. At its south edge, it is separated from the Pole (Wernecke) deposit by a ridge of Cambrian carbonate rocks. Structurally, the West Illyd 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. Gernscheid, 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
095826	2004	Wind River Caolfield Assessment Report	Property Evaluation - Other		
062149	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		
092026	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		
		Preliminary Feasibility Mining Study Illyd Creek Deposit Bonnet			

