



Occurrence Details

Occurrence Number: 106E 039

Occurrence Name: Cullingham

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/29/2025 4:26:51 PM

General Information

Secondary Commodities: coal

Deposit Type(s): Coal

Location(s): 65°25'21" N - -135°21'18" W

NTS Mapsheet(s): 106E06

Location Comments: 1 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Acquired in Nov/77 as Coal E Licence #82 by Pan Ocean OL, which explored with 4 drill holes (463 m) in 1979. The area was relicensed as #139 in Nov/80 and #371 in Nov/83.

Capsule Geology

Coal float was traced to surface exposures and found to occur within a typical Lower Bonnet Plume Formation exposure of conglomerate, sandstone and shale. The best hole (79-5) cut a 4.6 m thick seam of coal with partings of carbonaceous shale, which gave the following specifications: yield 54.7%, moisture 3.0%, ash 15.4%, volatiles 35.8%, fixed carbon 45.9%, sulphur <0.5%, and specific energy 10 400 BTU/lb.

The coal occurs within a 5 to 15° east-dipping monocline. One hole 1.5 km to the east and two holes 2 km and 3 km to the south failed to locate coal, indicating that the seam cut by hole 79-5 is limited in extent.

References

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

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
12/31/1979	Drilling	Number of holes drilled: 4 Amount of work done: 463 METRES

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095826	2004	Wind River Coalfield Assessment Report	Property Evaluation - Other		
062149	1982	Summary of Environmental Programs Completed 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		
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		
062114	1981	Preliminary Feasibility Mining Study Illyd Creek Deposit Bonnet Plume Coalfield	Pre-feasibility - Studies		
061966	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		
061889	1979	Economic, Environmental & Socio-Economic Considerations	Environmental Assessment/Impact - Studies, Preliminary Economic Assessment - Studies		
061805	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		
061806	1978	Yukon Thermal Power Generating Study for Pan Ocean Oil Limited	Feasibility - Studies		