

Occurrence Details

Occurrence Number: 106E 037
Occurrence Name: Deslaurier
Occurrence Type: Hard-rock

Status: Deposit

Date printed: 12/16/2025 5:58:28 AM

General Information

Primary Commodities: coal Deposit Type(s): Coal

Location(s): 65°26'11" N - -135°26'8" W

NTS Mapsheet(s): 106E06 Location Comments: 1 Kilometres Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Acquired as Coal Exploration Licence #82 in Nov/77 by Pan Ocean Oil Ltd, which carried out geological mapping and drilled 2 holes (281 m) in 1979 and 1 hole (331 m) in 1980. The area was relicensed as #139 in Nov/80; as #371 in Nov/83; and as CYM0016 by P. Wheelton in Dec/2001.

Capsule Geology

Coal seams are present in a Late Cretaceous sequence of conglomerate, sandstone and shale that forms the middle unit of the Bonnet Plume Formation. The coarse clastic rocks were laid down in wet alluvial fans and braided rivers while the associated silt, mud and coal were deposited in lacustrine, paludal and overbank flood plain environments and were preserved by rapid progradation of conglomeratic fluvial sequences.

The coal deposit occurs in a monocline that dips 5 to 20° northeast on a 180 m high hill capped by resistant conglomerate. An east-striking normal fault (north side down) separates the deposit into two blocks.

Drilling intersected five seams, the upper four of which correlate with seams forming the Illtyd deposit (Minfile Occurrence #106E 035). Only the upper two seams are included in reserve estimates. The upper seam is 8.0 m thick with a conglomerate hanging wall and shale grading to sandstone in the footwall. The lower (#2) seam is 5.0 m thick with a shaly conglomerate hanging wall and a shale footwall.

This coal has the following specifications: yield 72.3%, ash content 11.2%, volatiles 33.3%, fixed carbon 51.2%, moisture 4.2% and specific energy 24 888.2 kJ/kg. Indicated and inferred in-situ reserves are 60 830 000 and 43 800 000 tonnes, respectively, 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.

PAN OCEAN OIL LTD, Feb/80. Assessment Report #061966 by O.R. Cullingham.

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		Number of holes drilled: 1 Amount of work done: 331 METRES			
12/31/1979	Drilling	Number of holes drilled: 2 Amount of work done: 281 METRES			
12/31/1979	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		
062150	An Overview of the Vegetation, Wildlife and Fish Resources of the		Research/Summarize - Pre-existing Data, Biophysical Mapping - Studies Environmental Assessment/Impact - Studies Dre-feasibility -		

<u>UUZIJU</u>	1301	Bonnet Plume Lease, Northeastern Yukon Territory	Studies, Environmental Assessmenty Impact - Studies, Fre-reasionity -		
062114	1981	Preliminary Feasibility Mining Study Illtyd Creek Deposit Bonnet Plume Coalfield	Pre-feasibility - Studies		
<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		
<u>061887</u>	1978	Report Reserves and Grade of Coal in the Bonnet Plume Basin	Diamond - Drilling, Bedrock Mapping - Geology, Resource Estimate - Studies	50	8802
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		

Re	Resource/Reserve								
Year	Zone	Туре	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	
1980	DESLAURIER (OPEN PIT)	Historical Estimate	coal	24888.2 kJ/kg	43,800,000		No	No	

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

1980 DESLAURIER (OPEN PIT) Historical Estimate coal 24888.2 kJ/kg 60,830,000 No No Unknown

Cut-off

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.