

## **Occurrence Details**

Occurrence Number: 106E 032
Occurrence Name: Garlic Ring
Occurrence Type: Hard-rock

Status: Deposit

Date printed: 4/29/2025 4:57:26 AM

### **General Information**

Primary Commodities: coal Deposit Type(s): Coal

**Location(s):** 65°20'28" N - -134°51'5" W

NTS Mapsheet(s): 106E07 Location Comments: 1 Kilometres Hand Samples Available: No

Last Reviewed:

### Capsule

### Work History

Acquired as Coal Licence #88 in Nov/77 by Pan Ocean Oil Ltd, which carried out geological mapping and drilled 2 holes (484 m) in 1980. The area was relicensed as #145 in Nov/80; and as CYM0015 by P. Wheelton in Dec/2001.

#### Capsule Geology

This deposit occurs on a low flat hill formed of resistant conglomerate of the Late Cretaceous Lower Bonnet Plume Formation on the west side which rests conformably on Cambrian sedimentary rocks on the east side. It forms a northwest-dipping monocline with dips varying from 25 to 35°. Two coal outcrops were mapped in gullies.

Both drillholes intersected the #1 and #2 seams, which averaged 2.6 m and 3.4 m thick, respectively. The lower seams have apparently shaled out in this area. In-situ reserves are 8 600 000 tonnes indicated and 5 550 000 tonnes inferred 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, 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: 484 METRES |  |  |
| 12/31/1980 | Geology   |  |  |  |

## **Assessment Reports that overlap occurrence**

| Report<br>Number | Year | Title Worktynes  |   | Holes<br>Drilled | Meters<br>Drilled |
|------------------|------|--|---|------------------|-------------------|
| <u>095594</u>    | 2007 | Assessment Report Describing Airborne Geophysics at the Odie Property  | Magnetic - Airborne Geophysics, Reverse Circulation - Airborne Geophysics   |                  |                   |
| <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   |                  |                   |
| 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               |                  |                   |
| <u>062114</u>    | 1981 | Preliminary Feasibility Mining Study Illtyd Creek Deposit Bonnet<br>Plume Coalfield                                | Pre-feasibility - Studies   |                  |                   |
| 062055           | 1980 | Report on Geology an Exploration of the Bonnet Plume Basin Yukon<br>Territory                                      | Diamond - Drilling, Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Environmental Assessment/Impact - Studies, Resource Estimate - Studies | 53               | 10700             |
| 061066           | 1080 | Report on Geology an Exploration of the Bonnet Plume Basin Yukon   | Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology,  |                  |                   |

| 001300        | 1700 | Territory  | 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  |  |
| 061806        | 1978 | Yukon Thermal Power Generating Study for Pan Ocean Oil Limited   | Feasibility - Studies  |  |

| Resource  | /Reserve  |
|-----------|-----------|
| resource. | IZCSCI VC |

| Year  | Zone                   | Туре                | Commodity | Grade         | Tonnage   | A mount | Reported<br>Amount | 43-101<br>Compliant | Cut-off |
|---|------------------------|---------------------|-----------|---------------|-----------|---------|--------------------|---------------------|---------|
| 1980  | GARLIC RING (OPEN PIT) | Historical Estimate | coal      | 23297.2 kJ/kg | 5,550,000 |         | 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. |                        |                     |           |               |           |         |                    |                     |         |
| 1980  | GARLIC RING (OPEN PIT) | Historical Estimate | coal      | 23297.2 kJ/kg | 8,600,000 |         | 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. |                        |                     |           |               |           |         |                    |                     |         |