BP Canada Limited BP Coal Division 016509 1.0 PROPERTY FILE 73 Roog -**PROPERTY FILE** Sukunka coal mine project

The Sukunka coking coal deposits are located in Northeastern British Columbia 700 miles by rail from either the Port of Vancouver or Prince Rupert. The property is part of the chain of known coal deposits in the area which include Monkman, Saxon, Babcock, and Bullmoose. Being the most northerly of these properties it is closest to the existing British Columbia Railway trackage, 38 miles to the north at the town of Chetwynd.

Sukunka has undergone extensive exploration, testing, and mining development over the past 10 years. British Petroleum Group companies in Canada acquired control of the development in 1977 and plan a mine ultimately producing 3 to 4 million tonnes per year.





Mining

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Exploration has now proven the presence of 79 million tonnes of recoverable clean coal; a further 54 million tonnes are classified as probable and possible reserves. The coal occurs in the Chamberlain, Upper Chamberlain and Bird seams. The majority of reserves are in the Chamberlain seam which is approximately 3 metres thick.

Extensive test mining has occurred via entries in the northern end of the property (Sukunka No. 1 mine) and is currently underway at the western side of the property (Sukunka Main Colliery). Three continuous miners, four shuttle cars and support facilities are available for this activity. Commercial scale mining is planned using this type of equipment by the room and pillar method.



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Coal Processing



A feature of the Sukunka coal is its very low inherent ash in the seams, varying from 3% to 9%. Normal mining dilution, and the need to meet a consistent market specification, dictate a washing plant based on the flowsheet shown. The plant will be located at the Sukunka mine and will have an initial output of 1 million tonnes per year capable of modular additions up to 3 to 4 million tonnes per year output. Other surface facilities will include storage and rail loading facilities, maintenance shops and an administration building.

This plant is being designed to produce coal of the following specifications:

Total Moisture 6% Ash 6.0%* Volatile Matter 20 to 23%* Sulphur .6% Max.* F.S.I. 7 to 8 Size 1½ Max. *Air Dry basis

Extensive coke testing, including commercial scale trials, indicate this coal has excellent coking properties making a strong coke on its own, and enhancing the coke strength when blended with lower quality coking coals.

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Town of Chetwynd, British Columbia



It is planned to house the mine work force (which will ultimately reach 900 workers) in the Town of Chetwynd. Chetwynd's present population is 1,500. As the local centre of the lumber and railroad activities, it has schools, hospitals and shopping facilities. The road connection with Sukunka will be upgraded for the commuting workforce.

The British Columbia Railway is currently surveying a branch line connection from Chetwynd to Sukunka to follow the valley of the Sukunka River. The Canadian Federal Government and British Columbia Government are jointly financing this activity as part of the continuing program to promote industrial development in the region. It is anticipated that this branch rail line will subsequently be extended further south to serve other potential coal producers of the region. Shipping

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The British Columbia Railway which serves Northeastern British Columbia is one of the three trans-Rocky Mountain rail routes terminating in Vancouver. Traffic volumes are considerably less than the major Canadian National and Canadian Pacific transcontinental routes, indicating few difficulties in scheduling unit coal trains. Train sizes now operating over this system range from 7,000 to 10,000 tonne net loads.

It is intended to start Sukunka coal deliveries via the Port of Vancouver. Studies by the Canadian Government of the potential to develop coal terminal facilities at Prince Rupert are now underway. If such a terminal is built, Sukunka coal would be delivered via the combination of British Columbia Railway and Canadian National trackage via Prince George.

Within the Port of Vancouver, Neptune Terminals, Pacific Coast Bulk Terminals and Westshore Terminals are all major operating coal facilities. They offer the ability to load large bulk carriers, extensive storage and rapid dumping of unit trains. All three terminals, and potential new coal terminal locations, are available to Sukunka coal via interconnections with other rail systems.

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June 1979 Decision regid this year to next tayet date.



