

## PIPELINE TRANSPORT SYSTEMS

APPLICATION FOR APPROVAL OF  
THE DEVELOPMENT PLAN FOR  
PARSONS LAKE FIELD  
PROJECT DESCRIPTION

## GATHERING SYSTEM

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**8.1.1 NATURAL GAS AND NGL TRANSPORTATION PROPOSALS**

Natural gas and NGLs produced at the Parsons Lake field must be transported from the field to markets in the south. The Mackenzie Gas Project proponents have proposed a gathering system to:

- collect and transport natural gas and associated NGLs to a processing facility located near Inuvik (the Inuvik area facility)
- remove NGLs from the gas stream
- transport NGLs south from the processing facility into the existing Enbridge Pipelines (NW) Inc. pipeline

The proponents have also proposed an inter-provincial natural gas pipeline to transport and deliver natural gas, after removal of NGLs, from the Inuvik area facility to a location immediately south of the Northwest Territories–Alberta boundary. There, it will connect to an extension of the NGTL system, where the gas can be transferred to a southern pipeline system (see Section 8.2).

**8.1.2 COMPONENTS**

The gathering system includes the gathering pipelines, the Inuvik area facility and the NGL pipeline. The gathering pipelines will include:

- laterals carrying natural gas and associated NGLs from the Taglu, Parsons Lake and Niglintgak gas fields to the Inuvik area facility
- a pipeline carrying NGLs from the Inuvik area facility to Norman Wells to connect to the existing Enbridge pipeline

The gathering pipelines and supporting facilities, and the Inuvik area facility, have been sized to accommodate gas from the three anchor fields and from other potential gas fields. The NGL pipeline has been sized to accommodate NGLs associated with the gas. For more information, see Imperial Oil Resources Ventures Limited's application for approval of the Mackenzie gathering system.



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## GAS PIPELINE

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**8.2.1 GAS TRANSPORTATION PROPOSAL**

The Mackenzie Valley pipeline will carry gas from the Inuvik area facility to a pig receiver immediately south of the Northwest Territories–Alberta boundary. The gas pipeline will follow portions of several potential routes from Inuvik to Norman Wells that were previously proposed by developers in the 1970s and 1980s. These potential routes all pass through the Gwich'in Settlement Area and the northern part of the Sahtu Settlement Area.

The proposed route for the gas pipeline from Norman Wells to Alberta is expected to run parallel to the Enbridge pipeline as much as possible. The route will pass through the southern part of the Sahtu Settlement Area and the Deh Cho Region of the southern Northwest Territories.

The final route will be selected after additional technical work and consultation with:

- Aboriginal and other northern residents along the proposed pipeline route
- regulators
- other interested parties

**8.2.2 COMPRESSION FACILITIES**

Depending on the final design, the locations of four intermediate compressor stations are:

- north of Fort Good Hope
- near Norman Wells
- north of Wrigley
- north of Fort Simpson

Additional compression facilities will be added along the route if an increase in throughput capacity is required.

For more details, see Imperial Oil Resources Ventures Limited's application for approval of the Mackenzie Valley pipeline.

