
TITLE **Application for a Type A Land Use Permit in the DCR**
SECTION 2: Type A Land Use Permit Application
SUBJECT 1: Application Summary

APPLICATION SUMMARY

Applicant: Imperial Oil Resources Ventures Limited
Regulatory Agency: Mackenzie Valley Land and Water Board
Application Type: Type A Land Use Permit
Location: Dehcho Region
Land Ownership: Crown Lands
Proposed Development: **Description**

Surface Area

Construct and operate:	
• nine temporary infrastructure sites including areas for construction camps, barge landings, stockpiles and fuel storage	91.2 ha
• a new airstrip to support construction and allow year-round access at the Blackwater facility site and at the Trail River facility site	21.2 ha
• 42 borrow sites for materials to be used in the construction of the project	2,096.7 ha
• two segments of 40 m wide pipeline right-of-way covering a total of 521.9 km	2,087.6 ha
• two sites for the installation of a gas compression facility	19.0 ha
• a site for the installation of a gas heating facility	4.1 ha
• about 257.1 km of winter and all-weather access roads to facilitate construction of the project	514.2 ha
• a gas pipeline and related equipment, including pipeline facilities and appurtenances	-
Use temporary workspace for construction activities	86.8 ha
Land Use Requested	4,920.8 ha

Overview Map: Figure 2-1 is an overview map of sites on Crown land.

Schedule: Following receipt of all approvals and a decision to proceed, construction is scheduled to begin in mid-2006 and be substantially complete in 2009.

Figure 2.1 has been moved to reduce file size. To view it, click on the link to the figure in the web page List of Figures for this document.



Mackenzie Valley Land and Water Board
7th Floor - 4910 50th Avenue
P.O. Box 2130
YELLOWKNIFE NT X1A 2P6
Phone (867) 669-0506
FAX (867) 873-6610

Application for:

New Land Use Permit



Amendment



1. Applicant's name and mailing address:

Imperial Oil Resources Ventures Limited
425 First Street S.W.
Calgary, Alberta T2P 3M9

Attn: A.D. (Sandy) Martin
Manager, Regulatory Affairs
Mackenzie Gas Project

Telephone number: (403) 237-2864
Fax number: (403) 237-2102
Email: sandy.d.martin@esso.ca

2. Head office address:

Mackenzie Gas Project
Imperial Oil Resources Ventures Limited
237 Fourth Avenue S.W.
Calgary, Alberta T2P 3M9

Field supervisor:

Not currently identified

Radiotelephone:

Not currently available

3. Other personnel (subcontractor, contractors, company staff etc.)

The number of workers required for activities at each site will depend on the type, size and stage of each activity. An estimate of the personnel requirements for each aspect of the development is shown in Part 3 of each of [sections 4, 5, 6, and 7](#).

Estimates of the number of person-days applicable to each location and set of activities will be available upon completion of design and finalization of contracting and logistical arrangements.

4. Eligibility (Refer to section 18 (b) (ii) of the *Mackenzie Valley Land Use Regulations*.)

Imperial Oil Resources Ventures Limited (Imperial), on behalf of the proponents of the project, proposes to conduct the work described in this application. The project proponents include Imperial, the Mackenzie Valley Aboriginal Pipeline Limited Partnership, ConocoPhillips Canada (North) Limited, Shell Canada Limited and ExxonMobil Canada Properties.

5. a) Summary of operation (Describe purpose, nature and location of all activities.)

This application covers the developments proposed to occur on Crown lands in the DCR and seeks approval for the land use activities and operations associated with:

- constructing and operating a temporary infrastructure site near the Blackwater River compressor station including a 120-person camp, stockpile site and fuel storage area (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- constructing and operating a temporary infrastructure site near Ochre River including a 950-person camp, stockpile site and fuel storage area (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- constructing and operating a temporary infrastructure site near River Between Two Mountains including a stockpile site and fuel storage area (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- constructing and operating a temporary infrastructure site near Camsell Bend, including a 950-person camp, stockpile site and fuel storage area (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- constructing and operating a temporary infrastructure site within the Trail River compressor station footprint including a 120-person camp, stockpile site and fuel storage area (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- constructing and operating a temporary infrastructure site near Liard River including a stockpile site and fuel storage area (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- constructing and operating a temporary infrastructure site near McGill Station including a 950-person camp, stockpile site and fuel storage area (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))

- constructing and operating a temporary infrastructure site within the Trout River heater station footprint including a 40-person camp, stockpile site and fuel storage (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- constructing and operating a temporary infrastructure site near Trout Lake including a 900-person camp, stockpile site and fuel storage area (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- developing and operating 42 borrow sites for materials to be used in the construction of the pipelines, facilities and infrastructure sites (for a description of borrow site development, see [Section 3](#) and [Section 5](#))
- developing and maintaining two segments of 40 m wide pipeline right-of-way covering a total of 521.9 km (for a description of the pipeline development, see [Section 3](#) and [Section 6](#))
- preparing and maintaining a 9.5 ha site for the Blackwater River compressor station (for a description of the Blackwater River facility development, see [Section 3](#) and [Section 7](#))
- preparing and maintaining a 9.5 ha site for the Trail River compressor station (for a description of the Trail River facility development, see [Section 3](#) and [Section 7](#))
- preparing and maintaining a 4.1 ha site for the Trout River heater station (for a description of the Trout River facility development, see [Section 3](#) and [Section 7](#))
- developing and maintaining up to 257.1 km of winter and all-weather access roads to facilitate construction and operation of the project (for a description of access road development, see [Section 3](#) and [sections 4, 5, 6 and 7](#))
- constructing and operating a new airstrip at the Blackwater River compressor station and at the Trail River compressor station (for a description of airstrip development, see [Section 3](#) and [Section 4](#))
- using temporary workspace for construction activities (for a description of temporary workspace use, see [Section 3](#) and [Section 6](#))
- installing and maintaining a gas pipeline and related equipment, including pipeline appurtenances and facilities

The various land use activities in this application meet the threshold criteria for Type A or Type B land use permits under the *Mackenzie Valley Land Use Regulations*.

The total land area requested in this application is 4,920.8 ha. [Appendix A](#) contains detailed, site-specific requirements.

b) Please indicate if a camp is to be set up.

A number of camps will be required to support the development. This land use permit application seeks approval to construct and operate:

- one 120-person camp within the Blackwater River compressor station footprint (for a description of this camp development, see [Section 3](#) and [Section 4](#))
- one 950-person camp at the Ochre River infrastructure site (for a description of this camp development, see [Section 3](#) and [Section 4](#))

- one 950-person camp at the Camsell Bend infrastructure site (for a description of this camp development, see [Section 3](#) and [Section 4](#))
- one 120-person camp within the Trail River compressor station footprint (for a description of this camp development, see [Section 3](#) and [Section 4](#))
- one 950-person camp at the McGill Station infrastructure site (for a description of this camp development, see [Section 3](#) and [Section 4](#))
- one 40-person camp within the Trout River heater station footprint (for a description of this camp development, see [Section 3](#) and [Section 4](#))
- one 900-person camp at the Trout Lake infrastructure site (for a description of this camp development, see [Section 3](#) and [Section 4](#))
- mobile pioneer camps (typically 35 to 70 person capacity), as required, to facilitate initial construction of development sites (for a description of these camps, see [Section 3](#))

Land requirements for the stationary and mobile pioneer camps are included in the lands required for the activities described in Part 5. a).

6. Summary of potential environmental and resource impacts (Describe the effects of the proposed land-use operation on land, water, flora & fauna, and related socio-economic impacts.)

Biophysical and human environment setting, effects and primary mitigation strategies are discussed on a regional basis in [Section 8](#). Site-specific information is provided in [sections 4, 5, 6, and 7](#). Environmental and heritage resource protection plans are included in [Section 11](#).

7. Proposed restoration plan

The land use activities and operations related to construction of the proposed development will be planned and executed to reduce reclamation requirements and enhance natural recovery following construction. Construction techniques and design elements that comply with accepted protocols and standards for pipeline and facility construction will be used.

Decommissioning and abandonment will begin after the developments are no longer required for construction or operations. An abandonment and reclamation plan will be developed according to the regulatory requirements in effect at the time of the abandonment. The plan will include public consultation and consideration of alternative uses for the sites being decommissioned and abandoned. Surface facilities and infrastructure might be removed, and surfaces, other than granular pads, reclaimed. The site-specific subjects and [Section 8](#) provide additional detail.

8. Other rights, licences or permits related to this permit application (mineral rights, timber permits, water licences, etc.)

Other rights, licences or permits related to this application are being sought from various regulatory authorities and government agencies. These are listed in Table 2-1 next.

Table 2-1: Other Rights, Licences or Permits Related to this Application

Permit or Approval	Contact Agency	Contact
FEDERAL		
Application for a Certificate of Public Convenience and Necessity under the <i>National Energy Board Act</i>	National Energy Board	National Energy Board 444 Seventh Avenue S.W. Calgary, AB T2P 0X8
Application for approval of development plans and work authorizations under the <i>Canada Oil and Gas Operations Act (COGOA)</i>	National Energy Board	National Energy Board 444 Seventh Avenue S.W. Calgary, AB T2P 0X8
Applications for land use permits and water licences in the Mackenzie Valley	Mackenzie Valley Land and Water Board	Mackenzie Valley Land and Water Board Box 2130 7th Floor – 4910 50th Ave. Yellowknife, NT X1A 2P6
Applications for authorization for works or undertakings affecting fish habitat, as required	Fisheries and Oceans Canada (DFO)	Fisheries and Oceans Canada Yellowknife District Office Suite 101, 5204–50th Ave. Yellowknife, NT X1A 1E2
Approvals for work in navigable waters	Transport Canada	Transport Canada Prairie and Northern Division 344 Edmonton Street P.O. Box 8550 Winnipeg, MB R3C 0P6
Applications for quarry permits and leases on Crown lands	Indian and Northern Affairs Canada (INAC, formerly DIAND)	Indian and Northern Affairs Canada 4914 – 50th Ave. 6th Floor P.O. Box 1500 Yellowknife, NT X1A 2R3
Applications for land access on Crown lands	INAC	Indian and Northern Affairs Canada 4914 – 50th Ave. 6th Floor P.O. Box 1500 Yellowknife, NT X1A 2R3
Radio apparatus permits	Industry Canada	Industry Canada 4920 – 52nd St. Yellowknife NT X1A 3T1
Explosives storage permits	Natural Resources Canada	Natural Resources Canada 4920 – 52nd St. Yellowknife NT X1A 3T1
TERRITORIAL		
Wildlife disturbance, timber burning and cutting permits	Department of Environment and Natural Resources (ENR, formerly RWED)	Environment and Natural Resources 600, 5102 – 50th Ave. Yellowknife, NT X1A 3S8

Table 2-1: Other Rights, Licences or Permits Related to this Application (cont'd)

Permit or Approval	Contact Agency	Contact
TERRITORIAL (cont'd)		
Applications for highway access	Department of Transport (DOT)	Department of Transport P.O. Box 1320 Yellowknife, NT X1A 2L9
Applications for camp water supply	Department of Health and Social Services	Department of Health and Social Services P.O. Box 1320 Yellowknife, NT X1A 2L9
Explosives use permits	Workers' Compensation Board of the NWT and Nunavut	Workers' Compensation Board of the NWT and Nunavut P.O. Box 8888 Yellowknife, NT X1A 2R3
Electrical and pressure vessel permits	Public Works and Services	Public Works & Services Stuart Hodgson Building P.O. Box 1320 Yellowknife NT X1A 2L9
<i>Area Development Act</i> permits and licences	Municipal and Community Affairs (MACA)	Minister's Office P.O. Box 1320 Yellowknife, NT X1A 2L9
Applications for archaeological permits	Prince of Wales Northern Heritage Centre (PWNHC)	Prince of Wales Northern Heritage Centre P.O. Box 1320 Yellowknife, NT X1A 2L9

Roads: Is this to be a pioneered road?

Existing roads and previously disturbed areas will be used as much as practical. Where necessary, new roads will be built as described herein.

Roads: Has the route been laid out or ground truthed?

Road routes have been laid out or ground truthed through aerial photographs and confirmed by field reconnaissance between 2002 and 2004. Further reconnaissance work will be conducted to finalize routes and locations. Estimated road lengths allow for an additional 30% for topography and routing uncertainties.

9. Proposed disposal methods

a) Garbage:

c) Brush and trees:

b) Sewage (Sanitary and Gray Water):

d) Overburden (Organic soils, waste material, etc.):

Waste generated by the proposed development activities will be handled according to the waste management plan (WMP) for the project (see [Section 11](#)).

10. Equipment (includes drills, pumps, etc.)

The development activities at each site will require different numbers and types of equipment depending on the type, size and stage of activity. A discussion of the estimated equipment requirements for different activities is included in Equipment (Part 10) in [sections 4, 5, 6 and 7](#).

11. Fuels

Fuel storage is described in Fuels (Part 11) in [sections 4, 5, 6 and 7](#).

12. Containment fuel spill contingency plans

Detailed emergency response plans, including spill contingency, which reflect the construction and operational phases of the project, will be developed before construction begins. An overview of the emergency response and spill contingency framework is included in [Section 11](#).

13. Methods of fuel transfer (to other tanks, vehicles, etc.)

Fuel will be trucked, barged, or trucked and barged to fuel storage sites in the DCR. Fuel storage tanks without nearby barge landings will be filled using fuel trucks shuttling between the barge landing and the tanks. If the fuel storage site is close enough, a temporary surface pipeline might be installed to connect the barge landing area to the fuel storage site so that fuel can be pumped directly into fuel storage tanks.

Tanker trucks will be filled with fuel from the fuel storage site for transport to the development sites. Construction equipment will be refuelled on the site, or the right-of-way, by tank or truck-mounted fuel pumps with spill control equipment and spill kits. Spill contingency measures are described in the emergency response plan (ERP) framework outlined in [Section 11](#).

14. Period of operation (includes time to cover all phases of project work applied for, including restoration.)

A schedule of activities to be carried out at each of the sites in this application is provided in [Section 3](#) and in the Period of Operation (Part 14) included in [sections 4, 5, 6 and 7](#). This includes ongoing maintenance, operations, post-construction reclamation and ultimate abandonment.

15. Period of permit (up to five years, with maximum of two years of extension.)

The permit requested for all activities, including those associated with the temporary construction sites and permanent facility sites, is for an initial five-year period. This covers a three-year construction period and allows for subsequent demobilization, construction clean-up and reclamation activities. Permanent developments, such as the compressor and heater stations and the pipeline right-of-way, will be the subject of long-term land access arrangements.

16. Location of activities by map co-ordinates (attached maps and sketches.)

Each site in this land use permit application is shown on location maps and detailed site plans. Maps and coordinates of activities are referenced in Location of Activities by Map Coordinates (Part 16) in [sections 4, 5, 6 and 7](#).

Kilometre post (KP) markers are approximate and are shown for relative placement only. Final KP markers will depend on the final pipeline route.

17. Applicant

Print name in full

Imperial Oil Resources Ventures Limited
425 First Street S.W.
Calgary, Alberta T2P 3M9

Attn: A.D. (Sandy) Martin
Manager, Regulatory Affairs
Mackenzie Gas Project

Signature _____ Date _____

18. Fees

A calculation of all the land requirements applicable to this Type A land use permit application is contained in [Appendix A](#).

Application fee: Type A – \$150.00

Land use fee: (4,920.8 ha – 2.0 ha) * \$50.00/ha = \$245,940.00

Total fee: \$246,090.00