
TITLE **ISR Crown Lands Application for a Class A Land Use Permit**
SECTION 2: Class A Land Use Permit Application
SUBJECT 1: Summary

APPLICATION SUMMARY

Applicant: Imperial Oil Resources Ventures Limited

Regulatory Agency: Indian and Northern Affairs Canada

Application Type: Class A Land Use Permit

Location: Inuvialuit Settlement Region

Land Ownership: Crown Lands

Proposed Development:	Description	Surface Area
	<ul style="list-style-type: none"> • construct one temporary infrastructure site within the Storm Hills pigging facility footprint consisting of a 40-person camp, a stockpile site for equipment and materials and a fuel storage area 	0.0 ha
	<ul style="list-style-type: none"> • develop eight borrow sites for materials to be used in the construction of the project 	511.2 ha
	<ul style="list-style-type: none"> • develop a segment of 30 m wide pipeline right-of-way covering a total of 15.7 km 	47.1 ha
	<ul style="list-style-type: none"> • develop a segment of 40 m wide pipeline right-of-way covering a total of 33.7 km 	134.8 ha
	<ul style="list-style-type: none"> • develop a segment of 40 m wide pipeline right-of-way covering a total of 24.1km 	96.4 ha
	<ul style="list-style-type: none"> • develop a segment of 30 m wide pipeline right-of-way covering a total of 26.5 km 	79.5 ha
	<ul style="list-style-type: none"> • develop a segment of 40 m wide pipeline right-of-way covering a total of 51.6 km 	206.4 ha
	<ul style="list-style-type: none"> • use temporary workspace for construction activities 	71.1 ha
	<ul style="list-style-type: none"> • installation of a pigging facility 	4.0 ha
	<ul style="list-style-type: none"> • construct about 106.7 km of winter access roads to facilitate construction of the project 	213.4 ha
	Land Use Requested	1,363.9 ha

Overview Map: [Figure 2-1](#) is an overview map of the ISR Crown development.

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



Application for Land Use Permit:

1. Applicant's name and mailing address

Imperial Oil Resources Ventures Limited
P.O. Box 2480, Station M
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
E-mail: sandy.d.martin@esso.ca

2. Head office address

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

Telephone number: (403) 237-3737

Fax number: (403) 237-2102

Field supervisor: Not currently identified

Telephone number: Not currently available

E-mail: Not currently available

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 ISR Crown development is shown in Part 3 in [sections 4, 5, 6, and 7](#) in this application.

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. Qualifications (Refer to section 21 of the *Territorial Land Use Regulations*.)

Imperial Oil Resources Ventures Limited (Imperial), on behalf of the gathering system owners, proposes to conduct the work described in this application. The gathering system owners include Imperial Oil Resources Ventures Limited, ConocoPhillips Canada (North) Limited, ExxonMobil Canada Properties and Shell Canada Limited.

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

Refer to Section 22 (2)(b) of the Territorial Land Use Regulations.

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

- constructing and operating a temporary infrastructure site within the Storm Hills pigging facility footprint including a 40-person camp, a stockpile site and fuel storage area (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- developing and operating eight 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 15.7 km of 30 m wide (Niglintgak lateral) pipeline right-of-way (for a description of the pipeline development, see [Section 3](#) and [Section 6](#))
- developing and maintaining 57.8 km of 40 m wide (Taglu lateral) pipeline right-of-way (for a description of the pipeline development, see [Section 3](#) and [Section 6](#))
- developing and maintaining 26.5 km of 30 m wide (Parsons Lake lateral) pipeline right-of-way (for a description of the pipeline development, see [Section 3](#) and [Section 6](#))
- developing and maintaining 51.6 km of 40 m wide (Storm Hills lateral) pipeline right-of-way (for a description of the pipeline development, see [Section 3](#) and [Section 6](#))
- preparing and maintaining a 4 ha site for the Storm Hills pigging facility (for a description of the Storm Hills pigging facility development, see [Section 3](#) and [Section 7](#))
- developing and maintaining 106.7 km of winter access roads to facilitate construction and operation of the project (for a description of access road development see [Section 3](#) and [Section 6](#))
- using the temporary workspace for construction activities (for a description of temporary workspace, see [Section 3](#) and [Section 6](#))

The various land use activities in this application meet the threshold criteria for Class A and Class B land use permits under the *Territorial Land Use Regulations*.

The total land area requested in this application is 1,363.9 ha. [Appendix A – Calculation of Land Area Requirements](#) contains detailed, site-specific land 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 set up:

- one 40-person camp within the Storm Hills pigging facility footprint (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 camps are included in the lands required for the activities described in 5.a).

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

Biophysical and human environment setting, effects and primary mitigation strategies for the region are discussed 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 plans

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 might be removed and the surfaces, other than granular pads, reclaimed. The site-specific sections and [Section 8](#) provide additional detail.

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

Other rights, licences or permits related to this application are being sought from the regulatory authorities and government agencies listed in [Table 2-1](#).

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 SW Calgary, AB T2P 0X8
Application for approval of development plans and work authorizations under the <i>Canada Oil and Gas Operations Act</i> (COGOA)	National Energy Board	National Energy Board 444 Seventh Avenue SW Calgary, AB T2P 0X8
Application 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

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

Permit or Approval	Contact Agency	Contact
Applications for authorization for works or undertakings affecting fish habitat, as required	Department of Fisheries and Oceans Canada (DFO)	Fisheries and Oceans Canada Yellowknife District Office Suite 101, 5204 – 50th Ave. Yellowknife, NT X1A 1E2
Approval for work in navigable waters	Transport Canada	Transport Canada Prairie and Northern Division 344 Edmonton Street P.O. Box 8550 Winnipeg, MB R3C 0P6
Approval to access a migratory bird sanctuary	Environment Canada, Canadian Wildlife Service	Canadian Wildlife Service Environment Canada 301, 5205 – 50th Avenue Yellowknife, NT X1A 1E2
Applications for quarry permits and leases on Crown lands	Indian and Northern Affairs Canada (INAC, previously known as 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	Indian and Northern Affairs Canada (INAC, previously known as DIAND)	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
Applications for water licences in the ISR	NWT Water Board	NWT Water Board Box 1500 Yellowknife, NT X1A 2R3
Applications for land use permit for private lands in the ISR	Inuvialuit Land Administration (ILA)	Inuvialuit Land Administration P.O. Box 290 Tuktoyaktuk, NT X0E 1C0

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

Permit or Approval	Contact Agency	Contact
TERRITORIAL		
Wildlife disturbance, timber burning and cutting permits	Department of Environment and Natural Resources (ENR)	Government of the Northwest Territories Environment and Natural Resources #600, 5102 – 50th Ave. Yellowknife, NT X1A 3S8
Applications for highway access	Department of Transport (DOT)	Department of Transport P.O. Box 1320 Yellowknife, NT X1A 2L9
Applications for construction or modifications to airstrips	Department of Transport	Government of the Northwest Territories Department of Transport Box 1320 Yellowknife, NT X1A 2L9
Applications for camp water supply	Department of Health	Department of Health and Social Services P.O. Box 1320 Yellowknife, NT X1A 2L9
Explosives use permits	Workers' Compensation Board	Workers' Compensation Board of the NWT 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 quarry permits and leases on private lands within the ISR	ILA	Inuvialuit Land Administration P.O. Box 290 Tuktoyaktuk, NT X0E 1C0
Applications for land tenure on private lands within the ISR	ILA	Inuvialuit Land Administration P.O. Box 290 Tuktoyaktuk, NT X0E 1C0
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

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

Permit or Approval	Contact Agency	Contact
FEDERAL AND TERRITORIAL ANCHOR FIELD OWNER APPLICATIONS		
Applications for approval of development plans and work authorization under COGOA	National Energy Board	National Energy Board 444 Seventh Avenue S.W. Calgary, AB T2P 0X8
Applications for land use permits for Crown lands in the ISR	Indian and Northern Affairs Canada (INAC, previously known as DIAND)	Indian and Northern Affairs Canada P.O. Box 2100 Inuvik, NT X0E 0T0
Applications for water licences in the ISR	NWT Water Board	NWT Water Board Box 1500 Yellowknife, NT X1A 2R3

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. Specified 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 Grey 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

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

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

Barges will bring fuel to fuel storage sites adjacent to barge landings. 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 two years, with maximum of one year 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 cleanup and reclamation activities. Permanent development, such as the Storm Hills pigging facility 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
P.O. Box 2480, Station M
Calgary, Alberta T2P 3M9

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

Signature Original Signed By Jim Hawkins Date: May 25, 2005

18. Fees

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

Application fee: Class A: \$150.00

Land use fee: $\$50.00 + (1,363.9 \text{ ha} - 2.0 \text{ ha}) * \$50.00/\text{ha} = \$68,145.00$

Total fee: \$68,295.00