
TITLE **Application for Land Use Permits for Land within the Municipal Boundaries of Norman Wells, Fort Good Hope and Tulita**
SECTION 2: Type A Land Use Permit Application
SUBJECT 1: Summary

APPLICATION SUMMARY

Applicant: Imperial Oil Resources Ventures Limited
Regulatory Agency: Government of the Northwest Territories
 Municipal and Community Affairs
Application Type: Land Use Permit
Location: Norman Wells, Fort Good Hope, Tulita
Land Ownership: Commissioner’s Lands

**Proposed Development
for Land within the
Norman Wells Municipal
Boundary:**

Description	Surface Area
• one infrastructure site near Norman Wells consisting of a 1,350-person construction camp, a stockpile site for equipment, materials and line pipe, and a fuel storage area	24.9 ha
• one infrastructure site within the gas compression facility footprint consisting of a 120-person camp, a stockpile site for equipment, materials, and a fuel storage area	0.0 ha
• three borrow sources for materials to be used in the construction of the project	569.4 ha
• a segment of 40 m wide pipeline right-of-way extending a total of about 13.5 km	54.0 ha
• a segment of 30 m wide pipeline right-of-way extending a total of about 1.4 km	4.2 ha
• a gas compression facility site	9.5 ha
• about 5.4 km of winter and all-weather access roads to facilitate construction of the project	10.8 ha
• temporary workspace for construction activities	7.7 ha
Land Use Requested (Norman Wells)	680.5 ha

**Proposed Development
for Land within the Fort
Good Hope Municipal
Boundary:**

Description	Surface Area
• a barge landing site	
• a stockpile site for equipment, materials and line pipe, which includes a fuel storage depot	2.9 ha
• two borrow sources for materials to be used in the construction of the project	39.0 ha
• a segment of 50 m wide pipeline right-of-way extending a total of about 9.6 km	48.0 ha
• about 11.3 km of winter and all-weather access roads to facilitate construction of the project	22.6 ha
• temporary workspace for construction activities	3.9 ha
Land Use Requested (Fort Good Hope)	116.4 ha

**Proposed Development
for Land within the
Tulita Municipal
Boundary:**

Description	Surface Area
• about 44.1 km of winter access roads on the Mackenzie River within the municipal boundary of the Hamlet of Tulita to facilitate construction of the project	0.0 ha
• about 4.0 km of winter access roads on Commissioner's land to facilitate construction of the project	8.0 ha
Land Use Requested (Tulita)	8.0 ha
Total Land Use Requested	804.9 ha

Overview Maps:

Figure 2-1 is an overview map of activities and sites on land within the various municipal boundaries in the SSA.

Schedule:

Following receipt of all approvals and a decision to proceed, construction is proposed 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.



Application for:

New Commissioner's Land Use Permit

Amendment

1. Applicant's name and mailing address:

Imperial Oil Resources Ventures Limited
P.O. Box 2840, 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) 237-2208
Email: sandy.d.martin@esso.ca

2. Head office address:

Mackenzie Gas Project
Imperial Oil Resources Ventures Limited
425 First Street SW
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 the activity. An estimate of the personnel requirements for each aspect of the project 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

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 developments proposed to occur on lands within the municipal boundaries of Norman Wells, Fort Good Hope and Tulita and seeks approval for the land use activities and operations associated therewith. Developments proposed to occur on land within the Norman Wells municipal boundary:

- constructing and operating an infrastructure site near Norman Wells, including a 1,350-person construction camp, stockpile site and fuel storage area (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- constructing and operating an infrastructure site within the Norman Wells 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](#))
- developing and operating three 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 a 13.5 km segment of 40 m wide pipeline right-of-way (for a description of the pipeline development, see [Section 3](#) and [Section 6](#))
- developing and maintaining a 1.4 km segment of 30 m wide pipeline right-of-way (for a description of the pipeline development, see [Section 3](#) and [Section 6](#))
- installing and maintaining the pipeline and related equipment, including the pipeline appurtenances and facilities, through the initial term of the requested permit
- developing and maintaining about 5.4 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](#))

- using temporary workspace for construction activities (for a description of temporary workspace use, see [Section 3](#) and [Section 6](#))

Developments proposed to occur on land within the Fort Good Hope municipal boundary:

- constructing and operating infrastructure site components near Fort Good Hope, including a temporary summer stockpile site and fuel storage area (for a description of the infrastructure development, see [Section 3](#) and [Section 4](#))
- developing and operating two 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 a 9.6 km segment of 50 m wide pipeline right-of-way (for a description of the pipeline development, see [Section 3](#) and [Section 6](#))
- installing and maintaining the pipeline and related equipment, including the pipeline appurtenances, through the initial term of the requested permit
- developing and maintaining about 11.3 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 and 6](#))
- using temporary workspace for construction activities (for a description of temporary workspace use, see [Section 3](#) and [Section 6](#))

Developments proposed to occur on land within the Hamlet of Tulita municipal boundary:

- developing and maintaining 44.1 km of winter access roads on the Mackenzie River within the Hamlet of Tulita municipal boundary to facilitate construction of the project (for a description of access road development, see [Section 3](#))
- developing and maintaining 4.0 km of winter access roads on land within the Hamlet of Tulita municipal boundary to facilitate construction of the project (for a description of access road development, see [Section 3](#))

The various land use activities in this application meet the threshold criteria for Commissioner's land use permits set out in the *Municipal and Community Affairs Guidelines*.

The total land area requested in this application is 804.9 ha. See Appendix A – Calculation of Land Area Requirements for 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 includes a request for approval to set up:

- one 1,350-person camp at the Norman Wells infrastructure site (a description of this camp development is contained in [Section 3](#) and [Section 4](#))
- one 120-person camp within the Norman Wells compressor station 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 stationary and mobile pioneer camps are included in the lands required for the activities described in 5. a).

6. Summary of potential environmental and resource effects (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 developments will be planned and executed to reduce reclamation requirements and enhance natural recovery following construction. Construction techniques and design elements that comply with accepted codes 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 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 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](#).

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

Permit/Approval	Contact Agency	Contact
FEDERAL		
Application for a Certificate of Public Convenience and Necessity under Section 52 of 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 (COGOA)</i>	National Energy Board	National Energy Board 444 Seventh Avenue SW 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 7th Floor 4910 – 50th Avenue P.O. Box 2130 Yellowknife, NT X1A 2P6
Application for authorization for works or undertakings affecting fish habitat, as required	Fisheries and Oceans Canada (DFO)	Fisheries and Oceans Canada Yellowknife District Office 101, 5204 - 50th Avenue 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
Applications for quarry permits and leases on Crown land	Indian and Northern Affairs (INAC, previously known as DIAND)	Indian and Northern Affairs 6th Floor 4914 – 50th Avenue P.O. Box 1500 Yellowknife, NT X1A 2R3
Applications for construction or modifications to airstrips	Transport Canada	Transport Canada Tower C, Place de Ville, 330 Sparks Street Ottawa, ON K1A 0N5
Application for navigation permit for new airstrips	Transport Canada	Transport Canada Tower C, Place de Ville, 330 Sparks Street Ottawa, ON K1A 0N5

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

Permit/Approval	Contact Agency	Contact
FEDERAL (Cont'd)		
Radio apparatus permit	Department of Industry	Industry Canada 4920 – 52nd Street Yellowknife, NT X1A 3T1
Explosives storage	Department of Natural Resources	Natural Resources Canada 4920 – 52nd Street Yellowknife, NT X1A 3T1
TERRITORIAL		
Wildlife disturbance, timber burning and cutting permits	Department of Environment and Natural Resources (formerly known as Resources, Wildlife and Economic Development [RWED])	Environment and Natural Resources 600, 5102 – 50th Avenue Yellowknife, NT X1A 3S8
Application for archaeological permits	Prince of Wales Northern Heritage Centre (PWNHC)	Prince of Wales Northern Heritage Centre P.O. Box 1320 Yellowknife, NT X1A 2L9
Application for highway access	Department of Transport	Department of Transport P.O. Box 1320 Yellowknife, NT X1A 2L9
Application for camp water supply	Department of Health	Department of Health and Social Services P.O. Box 1320 Yellowknife, NT X1A 2L9
<i>Area Development Act</i> permits and licences	Municipal and Community Affairs	Minister's Office 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 2L9
Electrical and pressure vessels permits	Public Works and Services	Public Works and Services Stuart Hodgson Building 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.)

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](#).

In Norman Wells, fuel will be stored at the town's bulk fuel tanks. Small capacity fuel storage will be located at the sites and refilled as required from the bulk fuel tanks.

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 Norman Wells compressor station and the pipeline right-of-way will be the subject of long-term land access arrangements.

16. Location of activities by map coordinates (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 SW
Calgary, Alberta T2P 3M9

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

Signature _____ Date _____

18. Fees

A calculation of all land requirements applicable to this Commissioner's land use permit application is contained in Appendix A.

Application fee: Commissioner's – \$250.00

Land use fee: $(804.9 \text{ ha} - 2.0 \text{ ha}) * \$50.00/\text{ha} = \$40,145.00$

Total fee: \$40,295.00

