

PRELIMINARY SCREENING REPORT FORM

PRELIMINARY SCREENER REFERENCE / FILE NUMBER: Land Use Permit App# MV2000A0041, Water License App#MV2000L1-0009 TITLE: Oil and Gas Exploration, Cameron Hills Area ORGANIZATION: Paramount Resources Ltd.	EIRB REFERENCE NUMBER:
--	-------------------------------

Type of Development:
(CHECK ALL THAT APPLY)

- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | New Development |
| <input type="checkbox"/> | Amend, EIRB Ref. # |
| <input type="checkbox"/> | Renew, EIRB Ref.# |
| <input checked="" type="checkbox"/> | Requires permit, license or authorization |
| <input type="checkbox"/> | Does not require permit, license or authorization |

Principal Activities (related to scoping)
(CHECK ALL THAT APPLY)

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Construction
<input type="checkbox"/> Installation
<input checked="" type="checkbox"/> Maintenance (Potential for well re-entry, suspension, completion, and abandonment)
<input type="checkbox"/> Expansion
<input checked="" type="checkbox"/> Operation
<input type="checkbox"/> Repair
<input type="checkbox"/> Research
<input type="checkbox"/> Water Intake
<input type="checkbox"/> Other: _____ | <input checked="" type="checkbox"/> Exploration
<input type="checkbox"/> Industrial
<input type="checkbox"/> Recreation

<input type="checkbox"/> Municipal Quarry
<input type="checkbox"/> Linear / Corridor

<input checked="" type="checkbox"/> Sewage (Sump disposal) | <input type="checkbox"/> Decommissioning
<input type="checkbox"/> Abandonment
<input type="checkbox"/> Aerial

<input type="checkbox"/> Harvesting
<input checked="" type="checkbox"/> Camp
<input type="checkbox"/> Scientific/
<input checked="" type="checkbox"/> Solid Waste |
|--|--|---|

Principal Development Components (related to scoping)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Access Road (Construction)
<input checked="" type="checkbox"/> construction
<input type="checkbox"/> abandonment/removal
<input type="checkbox"/> modification e.g., widening, straightening
<input checked="" type="checkbox"/> Automobile, Aircraft or Vessel Movement
<input type="checkbox"/> Blasting
<input type="checkbox"/> Building
<input type="checkbox"/> Burning
<input type="checkbox"/> Burying
<input type="checkbox"/> Channeling
<input type="checkbox"/> Cut and Fill
<input checked="" type="checkbox"/> Cutting of Trees or Removal of Vegetation
<input type="checkbox"/> Dams and Impoundments
<input type="checkbox"/> construction
<input type="checkbox"/> abandonment/removal
<input type="checkbox"/> modification
<input type="checkbox"/> Ditch Construction
<input type="checkbox"/> Drainage Alteration
<input type="checkbox"/> Drilling other than Geoscientific
<input type="checkbox"/> Ecological Surveys
<input type="checkbox"/> Excavation
<input type="checkbox"/> Explosive Storage
<input checked="" type="checkbox"/> Fuel Storage
<input type="checkbox"/> Topsoil, Overburden or Soil
<input type="checkbox"/> fill <input type="checkbox"/> removal /
<input type="checkbox"/> disposal <input type="checkbox"/> storage | <input checked="" type="checkbox"/> Waste Management
<input type="checkbox"/> disposal of hazardous waste
<input checked="" type="checkbox"/> waste generation
<input checked="" type="checkbox"/> Sewage
<input checked="" type="checkbox"/> disposal of sewage
<input type="checkbox"/> Geoscientific Sampling
<input type="checkbox"/> trenching
<input type="checkbox"/> diamond drill
<input type="checkbox"/> borehole core sampling
<input type="checkbox"/> bulk soil sampling
<input type="checkbox"/> Gravel
<input type="checkbox"/> Hydrological Testing
<input checked="" type="checkbox"/> Site Restoration
<input type="checkbox"/> fertilization
<input type="checkbox"/> grubbing
<input checked="" type="checkbox"/> planting/seeding
<input type="checkbox"/> reforestation
<input type="checkbox"/> scarify
<input type="checkbox"/> spraying
<input checked="" type="checkbox"/> recontouring
<input checked="" type="checkbox"/> Slashing and removal of vegetation
<input type="checkbox"/> Soil Testing
<input checked="" type="checkbox"/> Stream Crossing/Bridging
<input type="checkbox"/> Tunneling/Underground
<input checked="" type="checkbox"/> Other (describe): (Water Intake) |
|--|--|

NTS Topographic Map Sheet Numbers
85C

NTS Map Sheet #s:
85C

Latitude / Longitude and UTM System:
60° 00' N - 60° 20' N 117° 15' W - 117° 50' W

Nearest Community and Water Body:
Hay River, Kakisa, Enterprise
Cameron River, Tathlina Lake

Land Status (consultation information)

Free Hold / Private Commissioners Land Federal Crown Land Municipal Land

Transboundary Implications

British Columbia Alberta Saskatchewan Manitoba Yukon
 Nunavut Wood Buffalo National Park Inuvialuit Settlement Region

Type of Transboundary Implication: Impact / Effect Development

Public Concern
(DESCRIBE) _____

PHYSICAL - CHEMICAL EFFECTS

IMPACT

MITIGATION

1. Ground Water

- water table alteration
- water quality changes
- infiltration changes
- other
- N/A

IMPACT

2. Surface Water

- flow or level changes
- water quality changes

- water quantity changes
- Drainage pattern changes
- temperature
- wetland changes / loss
- other:
- N/A

IMPACT

3. Noise

- noise in/near water
- other: noise increase
- N/A

IMPACT

4. Land

- geologic structure changes
- soil contamination
- buffer zone loss
- soil compaction & settling
- Destabilization / erosion
- permafrost regime alteration
- other: explosives/scarring
- N/A

MITIGATION

All stream crossings will be either ice bridges constructed from snow or ice and bridges will also be built for summer quad travel over streams and creeks. Ice bridges will be constructed over the following drainages not frozen to the bottom using only clean snow and ice:

- Two Cameron River Crossings.
- Tributary of Cameron River near A-73 Wellsite

No fueling activities will be allowed within 100 meters of any watercourse crossings. Comprehensive Spill and Emergency Response Plan in place

MITIGATION

- No permanent residents in project area, wildlife effects minimal since noise will be temporary and confined to access and wellsites.

MITIGATION

Spill contingency plan in place, all contaminated soil will be disposed at an approved landfill facility. All wellsites will have fuel areas bermed and contained. Drilling muds will be ton-toxic gel muds and stored within above ground storage tanks.

Equipment and machinery will only be used in winter when ground is frozen.

IMPACT

MITIGATION

5. Non Renewable Natural Resources

- resource depletion
- other:
- N/A

IMPACT

MITIGATION

6. Air/Climate/ Atmosphere

- Other
- N/A

All equipment will conform to Federal and Territorial emissions standards.

BIOLOGICAL ENVIRONMENT

IMPACT

MITIGATION

1. Vegetation

- species composition
- species introduction
- toxin / heavy accumulation
- other:
- N/A

Only areas that are susceptible to erosion will be reclaimed with seed mixes, minimizing introduction of non-native species. Other areas will be reclaimed by natural regeneration. Monitoring will assess success of natural growth.

IMPACT

MITIGATION

1. Wildlife & Fish

- effects on rare, threatened or endangered species
- fish population changes
- waterfowl population changes
- breeding disturbance
- population reduction
- species diversity change
- health changes

Maximum use of existing campsites, corridors, seismic lines and winter access routes will minimize the damage to undisturbed habitats. 11.81 Hectares of native habitat will be disturbed by development activities resulting in temporary disturbance of wildlife in the adjacent area. However, disturbances from activities will be confined to project sites and access routes and will avoid sensitive areas (waterbodies, steep slopes) keeping species displacement to a minimum. Potential road conflicts with wildlife using access routes as transportation corridors could occur. These will be mitigated by low speeds and driver training to respond and allow wildlife to pass on access routes.

(Identify)

behavioral changes

Displacement of species from project sites will be minimized by using existing corridors to maximum extent through good wildlife habitats. Buffer zones between waterbodies and project areas also will protect wildlife habitats. Winter operations will mitigate potential impacts to bird and raptor populations.

(Identify)

habitat changes / effects

game species effects

- Moose that use the Cameron Hills area generally move to low-lying winter areas near Tathlina Lake, Cameron River and the Hay River Valleys.
- Caribou use area but localized noise and activity will minimize disturbance, winter operations will minimize damage to vegetation communities used for feeding.
- Bears not present in winter, summer bear conflicts will be reported to RWED.
- Conflicts between caribou using access routes for travel corridors will be minimized through low vehicle/equipment speeds on routes and driver awareness and training.

toxins / heavy metals

forestry changes

agricultural changes

other:

N/A

INTERACTING ENVIRONMENT

IMPACT

MITIGATION

1. Habitat and Communities

predator-prey

wildlife habitat / ecosystem
Composition changes

reduction / removal of
keystone or endangered
species

removal of wildlife corridor or
buffer zone

other:

N/A

IMPACT

MITIGATION

5. Non Renewable Natural Resources

- resource depletion
- other:
- N/A

IMPACT

MITIGATION

6. Air/Climate/ Atmosphere

- Other
- N/A

All equipment will conform to Federal and Territorial emissions standards.

BIOLOGICAL ENVIRONMENT

IMPACT

MITIGATION

1. Vegetation

- species composition
- species introduction
- toxin / heavy accumulation
- other:
- N/A

Only areas that are susceptible to erosion will be reclaimed with seed mixes, minimizing introduction of non-native species. Other areas will be reclaimed by natural regeneration. Monitoring will assess success of natural growth.

IMPACT

MITIGATION

1. Wildlife & Fish

- effects on rare, threatened or endangered species
- fish population changes
- waterfowl population changes
- breeding disturbance
- population reduction
- species diversity change
- health changes

Maximum use of existing campsites, corridors, seismic lines and winter access routes will minimize the damage to undisturbed habitats. 11.81 Hectares of native habitat will be disturbed by development activities resulting in temporary disturbance of wildlife in the adjacent area. However, disturbances from activities will be confined to project sites and access routes and will avoid sensitive areas (waterbodies, steep slopes) keeping species displacement to a minimum. Potential road conflicts with wildlife using access routes as transportation corridors could occur. These will be mitigated by low speeds and driver training to respond and allow wildlife to pass on access routes.

(Identify)

behavioral changes

Displacement of species from project sites will be minimized by using existing corridors to maximum extent through good wildlife habitats. Buffer zones between waterbodies and project areas also will protect wildlife habitats. Winter operations will mitigate potential impacts to bird and raptor populations.

(Identify)

habitat changes / effects

game species effects

- Moose that use the Cameron Hills area generally move to low-lying winter areas near Tathlina Lake, Cameron River and the Hay River Valleys.
- Caribou use area but localized noise and activity will minimize disturbance, winter operations will minimize damage to vegetation communities used for feeding.
- Bears not present in winter, summer bear conflicts will be reported to RWED.
- Conflicts between caribou using access routes for travel corridors will be minimized through low vehicle/equipment speeds on routes and driver awareness and training.

toxins / heavy metals

forestry changes

agricultural changes

other:

N/A

INTERACTING ENVIRONMENT

IMPACT

MITIGATION

1. Habitat and Communities

predator-prey

wildlife habitat / ecosystem
Composition changes

reduction / removal of
keystone or endangered
species

removal of wildlife corridor or
buffer zone

other:

N/A

IMPACT

MITIGATION

2. Social and Economic

- planning / zoning changes or conflicts
- increase in urban facilities or services use
- rental house
- airport operations / capacity changes
- human health hazard
- impair the recreational use of water or aesthetic quality
- affect water use for other purposes
- affect other land use operations
- quality of life changes
- public concern
- other:
- N/A

Employment of local first nations people.

IMPACT

MITIGATION

3. Cultural and Heritage

- affects to historic property
- increased economic pressure on historic properties
- change to or loss of historic resources
- change to or loss of archaeological resources
- increased pressure on archaeological sites
- change to or loss of aesthetically important site
- affects to aboriginal lifestyle
- other:
- N/A

Trapline conflict/disturbance will be negligible due to localized project activities and low trapping use in the project area.

NOTES:

PRELIMINARY SCREENER / REFERRING BODY INFORMATION
(CHECK ALL THAT APPLY)

	RA or DRA	ADVICE	PERMIT REQUIRED
<u>Federal</u>			
ENVIRONMENT CANADA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FISHERIES & OCEANS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
INDIAN AFFAIRS & NORTHERN DEVELOPMENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NATIONAL ENERGY BOARD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NATURAL RESOURCES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Territorial</u>			
RESOURCES, WILDLIFE AND ECONOMIC DEVELOPMENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MUNICIPAL AND COMMUNITY AFFIARS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
STANTON REGIONAL HEALTH BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TERRITORIAL HEALTH BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PRINCE OF WALES HERITAGE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MVEIRB	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Aboriginal / First Nation</u>			
DEH GAH GOT'IE DENE COUNCIL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
KA'A'GEE FIRST NATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HAY RIVER DENE RESERVE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
WEST POINT FIRST NATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SAMBAA KE DENE BAND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DENE NATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HAY RIVER METIS NATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FORT PROVIDENCE METIS COUNCIL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEH CHO FIRST NATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DENINU KUE ENVIRONMENTAL WORKING COMMITTEE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
METIS NATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HAY RIVER METIS GOVERNMENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Local Government</u>			
TOWN OF HAY RIVER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FORT PROVIDENCE RESOURCE MANAGEMENT BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HAMLET OF FORT PROVIDENCE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

REASONS FOR DECISION
(LIST ALL REASONS AND SUPPORTING RATIONALES FOR PRELIMINARY SCREENING DECISION)

PROJECT :

The scope of this project consists of :

- Drilling of 9 new wells.
- Complete and test 7 existing wells.
- Future potential drilling of up to 10 additional wells.
- Construction and operation of camp(s).
- Construction and operation of winter access, ice bridges and lease sites.

Period of work consists of November to April, depending on frozen ground conditions.

Total permit time frame applied for is from November 2000 to November 2007. (Five year permit and two year extension)

Extensive public consultation was carried out for first nations and government. First Nations and government groups are listed on the previous page. No significant concern was submitted to the MVLWB in relation to the project. Extensive follow up was done to ensure that first nations groups were aware that comments needed to be submitted to the MVLWB for consideration, even if comments were submitted past the deadline date. Requests were received from First Nations for extensions to the review period at which point First Nations were informed that late comments would be accepted up to three weeks after the deadline date. With the exception of the K'atlodeeche First Nation in Hay River, no first nations groups submitted comments/concerns to the MVLWB relating to the Cameron Hills project. Government Departments submitted comments which are summarized in the MVLWB staff report. Overall no significant public concern was submitted to the MVLWB.

PRELIMINARY SCREENING DECISION	
<input checked="" type="checkbox"/>	Outside Local Government Boundaries
<input checked="" type="checkbox"/>	The development proposal might have a significant adverse impact on the environment, <i>refer it to the EIRB.</i>
<input type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i>
<input type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	Wholly within Local Government Boundaries
<input type="checkbox"/>	The development proposal is likely to have a significant adverse impact on air, water or renewable resources, <i>refer it to the EIRB.</i>
<input type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i>
<input type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>

Preliminary Screening Organization

Mackenzie Valley Land and Water Board

Signatures


