The [*Policy and Procedures Document for Submitting the Geophysical Field Report Form*](https://open.alberta.ca/dataset/660fc7b7-8732-44b9-9a9d-c65ba4ce8ed3/resource/78a97e00-dc28-4a53-b0da-aa63153a02c3/download/aep-policy-and-procedures-document-for-submitting-the-geophysical-field-report-form-2006-10.pdf) (PPD) requires this form be completed and submitted for all programs that intersect any public lands, including those in areas designated as a park or protected area. Applications submitted without a completed GFR form will be refused. This form will be referenced and form part of your program approval.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| New Program *or*  Amendment to Geo Number: | | | | GFR date: |
| Licensee: |  | | | Licence number: |
| Program name: |  | | | Ground conditions:  Dry  Frozen |
| Area: | Twp.      to | Rge.       to | W       M | If both dry and frozen, explain: |
| Green Area  White Area  Park Area | | |

# Contact Identification

Identify preconsultation communications made with departmental or relevant land authorities (including any municipalities, special areas, Alberta Transportation, Alberta Agriculture and Forestry or Alberta Environment and Parks) in relation to program operations.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Land authority | Contact name | Contact info.(phone/email) | Date of contact | If contact made, provide details below |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

# Program Evaluation

The following maps, resources, or actions were used to evaluate site conditions, stream crossing locations, existing lines, wildlife concerns, and timber density for environmental mitigation and operational effectiveness.

|  |  |
| --- | --- |
| Mandatory On-site Evaluation |  |
| Aerial reconnaissance: date of evaluation | |
| Ground reconnaissance: date of evaluation | |
| Mandatory on-site evaluation waived?  YES *(refer to remarks below)* |  |

|  |
| --- |
| Remarks: |

A complete Public Land Standing Report (PLSR) *must* be generated and reviewed for the program area within seven days prior to program application submission. The PLSR will list all industrial holdings and dispositions, agricultural dispositions, Indian Reserves, Métis Settlements, traplines, FMAs, etc.

In addition, a check for any reservations must be completed using the Government of Alberta’s Land Use Reservation Program (LURP). LURP information can be found on the Government of Alberta website. If any reservations exist, list and explain how they will or why they will not affect the program and any actions that are required.

|  |
| --- |
| Date PLSR search was completed: |

Identify Reservations needing mitigation and the actions required—refer to the *Policy and Procedures Document for Submitting the Geophysical Field Report Form* (PPD).

|  |  |
| --- | --- |
| Type/ Number | Action to resolve / comments |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# Areas of Special Concern

Indicate if any part of the proposed program falls into the following areas. If yes, it is recommended that you contact the appropriate agency at the preapplication stage for additional information. (See section 3.2 of the PPD—Contact Identification.)

|  |  |
| --- | --- |
| Caribou Area:  Yes No *IF YES*, provide the Caribou Protection Plan Number: | |
| Wildlife Areas  Key Wildlife Biodiversity Zone (KWBZ):  Yes  No  *IF YES*, timing restrictions apply. Check applicable box below.  North – January 15 to April 30  South – December 15 to April 30  Other wildlife areas:  Yes  No  Do timing restrictions apply:  Yes  No  *IF YES*, specify dates:  List any other requirements/conditions to be applied: | Higher-level plans (includes land use frameworks, regional and sub-regional plans, integrated resource plans, regional integrated decisions, public land use zones, access management plans, and landscape management plans)  Yes  No  *IF YES*, indicate plan name and list the parameters applicable to geophysical activity which apply to this program.  Name:  Applicable parameters:  Name:  Applicable parameters: |

|  |  |
| --- | --- |
| Parks and Protected Areas (e.g., Wildland Park, Recreation Area, etc.):  Yes  No  *IF YES*, indicate the name of the park or protected area, and list any terms or conditions stipulated in the management plan or as directed by Parks and Protected Area staff.  Name:  Terms/Conditions: | Natural Area/Eco-reserve/Heritage Rangeland:  Yes  No  *IF YES*, indicate name of area and list any terms or conditions stipulated in the management plan or as directed by the regulating agency.  Name:  Terms/Conditions: |
| Maintaining Our Forest/CAFRA blocks:  Yes  No  *IF YES*, the conditions outlined in the PPD applies (section 3.4.5). | | |
| Provincial Grazing Reserve  Yes  No  *IF YES*, indicate the name of the Grazing Reserve and Grazing Reserve Manager, and list any requirements or conditions to be applied to the program as stipulated by the Grazing Reserve Manager (see appendix I in the PPD for names).  Grazing Reserve Name:       Grazing Reserve Manager:  Conditions: | | |
| Other Special Areas of Concern:  Yes  No  *IF YES*, list the concerns and the required mitigation: | | |

# Buffer Zones

## Aquatic Buffers (see section 3.5.1 in the PPD)

|  |
| --- |
| Watercourse or water body mechanical crossings required:  Yes  No  *IF NO*, a 10 m buffer is required. |
| Do riparian areas exist (adjacent to watercourse or water body):  Yes  No  *IF YES*, a 45 m hand cut line (with no shot hole drilling) buffer is required. |
| Riparian area waiver requested:  Yes  No  *IF YES*, describe alternative hole plugging, other mitigation planned and the length of line in the riparian area: |

## Wildlife Buffers (see section 3.5.2 in the PPD)

|  |
| --- |
| Wildlife corridor buffer required:  Yes  No  *IF YES*, indicate the required undisturbed buffer (over-breaks): 50 m  White Area *or* 100 m  Green Area |

## Trumpeter Swan Lake/Water Body Buffers (see section 3.4.3 and 3.5.3 in the PPD)

|  |
| --- |
| Trumpeter Swan lakes/water bodies encountered:  Yes  No  *IF YES*, indicate the required buffer: 800 m  *or* 500 m  *or* 100 m |

# Existing Lines (see section 3.6 in the PPD)

## Are there existing lines: 2D or 3D

|  |
| --- |
| Do any parallel existing lines exist within 400 m of any proposed new cut lines?  Yes  No  If YES, has the regrowth on the existing lines been evaluated to be under 2 m in height?  Yes  No  If YES, are you proposing to use new cut lines instead of existing cut lines?  Yes  No  Provide details: |

# Program and Line Access (see section 3.7 in the PPD)

Proposed access across public lands *must* be shown on the preliminary plan map.

|  |
| --- |
| Will public roads or road allowances be used for access?  Yes  No  Will existing lines be used for access?  Yes  No  Explain: |

# Evaluation of Impacts on Streams and Water Bodies (see section 3.8.1 in the PPD)

* The types and locations of stream crossings where mechanical equipment will be used *must* be identified on the preliminary plan map. All Code of Practice crossings are to be shown with a separate identity.
* Access around non-mechanical crossings must be shown.
* All proposed stream crossings must have been evaluated and positioned to minimize environmental impact.

|  |
| --- |
| Stream crossing locations have been reviewed in detail using some or all of the resources checked off in section 2 of this form (Program Evaluation):  N/A  Yes  Refer to schedule 2 of the *Water (Ministerial) Regulation* for a list of water courses that require an approval under the *Water Act.*  Are Code of Practice crossings required under the *Water Act* for this program?  Yes  No  *IF YES*, notices are to be attached to the GFR form. |
| The types of stream crossings that are proposed have been identified by number on the application map?  Yes  No  Check off the type of structures or methods that will be used at stream crossings and on the preliminary plan:  1. Snow (SF) and/or ice fills (IF)  2. Native timber/log bridge (NTB)  3. Portable single span bridge (PB)  4. Existing bridge  5. Other (specify):  6. Non-mechanical crossing (NM)  Note: All stream/water crossings and structure types must be shown on all preliminary and final plan maps. |
| Have environmental concerns been identified at the proposed stream crossings, other than Code of Practice crossings, (e.g., watercourse banks susceptible to erosion)?  Yes  No  *IF YES*, describe the mitigation measures planned for minimizing disturbances at the steam crossings: |

## Energy Sources on Water Bodies (see section 3.8.2 in the PPD)

|  |
| --- |
| Does the proposed plan involve drilling shot holes on water bodies?  Yes  No |
| Does the proposed plan involve the use of air guns on water bodies?  Yes  No |
| Does the proposed plan involve pushing the charges into the mud?  Yes  No |
| Does the proposed plan involve other energy source types on water bodies?  Yes  No  *IF YES*, explain: |
| Outline an action plan for the use of energy sources on water bodies. Identify the water bodies either by name or legal land description: |

## Category of Water Body

|  |
| --- |
| What category of lake is impacted by the proposed program?  Dry lake bed  Intermittent lake  Permanent lake |
| Are any of the water bodies fish-bearing?  Yes  No  (NOTE: Drilling is NOT permitted on fish-bearing water bodies.) |

# Operational Method and Line Construction

Select the program category from the maximum average line width described in the tables below.

|  |  |  |
| --- | --- | --- |
| 2D Explosive LIS | | Combination line width: ≤ 4 m |
| 2D Non-Explosive LIS | | Combination line width: ≤ 4.5 m |
|  |  | | |
| 3D Explosive Non-Intensive LIS | Spacing: > 300 m | R line width: ≤ 3.5 m or ≤ 2 m with Heli Assist  S line width: ≤ 4.5 m | |
| 3D Explosive Intermediate LIS | Spacing: > 130 m ≤ 300 m | R line width: ≤ 2 m  S line width: ≤ 3.8 m | |
| 3D Explosive Intensive LIS | Spacing: ≤ 130 m | R line width: ≤ 2 m  S line width: ≤ 3 m | |
| 3D Non-Explosive Non-Intensive LIS | Spacing: > 150 m | R line width: ≤ 2 m  S line width: ≤ 3.8 m | |
| 3D Non-Explosive Intensive LIS | Spacing: ≤ 150 m | R line width: ≤ 2 m  S line width: ≤ 3 m | |
|  |  | | |
| Unconventional/Other | Explain: | | |
| Source Line width:       Receiver line width:       Combination line width: | | | |

## Textual Description of Program Operations

|  |
| --- |
| Proposed Program Commencement Date: |
| Describe in greater detail how the seismic program will be carried out and products that will be used. Provide comments or mitigation strategies that address concerns not already discussed. This would include program construction and equipment, timing, methodology, waiver requests, incidental activities, and line width constructions that may go outside of what has already been provided in the sections above. Include any useful information in evaluating or describing the program below (see section 3.9.2 of the PPD for details): |

# Timber Management and Timber Salvage

|  |
| --- |
| Is the program in an FMA?  Yes  No  Timber Licence:  Yes  No  Timber Permit:  Yes  No  *IF YES*, identify FMA/Licence/Permit number, representative contacted, and phone number: |
| Does the proposed program cross any cutblocks?  Yes  No  Does the proposed program cross any currently scheduled logging areas?  Yes  No  Does the proposed program cross any reforested areas?  Yes  No  *IF YES*, what method of operation is proposed for use in cutblocks, reforested or currently scheduled logging areas that will minimize damage to new growth and/or maximize use of harvested wood? |
| Does the proposed program meet all the following operational methods and line construction criteria?  Yes  No  New cut receiver line widths will be 1.75 m or less  New cut source line widths will be 2.75 m or less  New cut 2D or combination line width will be 4 m or less  New cut access widths will be 4 m or less  Staging areas and other areas will use existing clearings only  Meandering timber avoidance methods will be used  A maximum 200 m line of sight will be used  *IF NO*, consultation with an Alberta Agriculture and Forestry senior forest officer for the region is required. Attach a copy of your correspondence and directions from Alberta Agriculture and Forestry with this application. |

# Miscellaneous

## Campsite

|  |
| --- |
| Will this program involve the use of campsites on public land?  Yes  No  *IF YES*, the proposed campsite must be shown on the preliminary plan as new or existing clearings. |
| *Note:* Any campsite remaining on public land for longer than one year will require a Miscellaneous Lease from Alberta Environment and Parks. |

## Contacts

|  |  |  |
| --- | --- | --- |
| Licensee representative: | Telephone #: | Email: |
| GFR prepared by: | Telephone #: | Email: |
| Contact person for the program: | Telephone #: | Email: |

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **\_****\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

(Signature of authorized company representative) (Date)

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(Printed name and title)