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|  | Indian Oil and Gas Canada (IOGC)Pétrole et gaz des Indiens du Canada | **ENVIRONMENTAL REVIEW FORM*** The accurate completion of this form is required to conduct oil and gas activity on Indian Reserve land in Canada.
* This Form is designed to be completed with the *Guide to Preparing an Environmental Review Form for Indian Oil and Gas Canada, May 2014* (Guide).
* The Applicant shall ensure that the environmental information contained herein is prepared by an **Independent Qualified Environmental Professional** as per the aforementioned Guide.
* Use additional space in Appendix 14 if required.
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| **Section A. PROJECT IDENTIFICATION**   |
| 1. Applicant name: |  |
| 2. Project name: |  |
| 3. New project or amendment or change to an existing agreement? | 🞏New project 🞏Amendment (additional well/pipeline, change of use and/or expiry of Environmental Protection Terms)  |
|  If amendment, provide IOGC surface agreement # and go to Section F: |
| 4. Project location  | 1. Legal land description:
 |
| 1. Latitude and Longitude:
 |
| 1. Reserve name and number:
 |
| 5. Anticipated start date or quarter: |  |
| 6. Date(s) of site visit(s): |  |
| 7. Type of application (See Section C): | 🞏Standard application 🞏Non-standard application |

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| **Section B. PROJECT DESCRIPTION** |
| 1. Project Type: |
| a) Surface lease | 🞏Developmental well 🞏Exploratory well 🞏Multi-well pad ( # of wells: )🞏Access road 🞏Single well battery 🞏Battery 🞏Disposal well 🞏Remote sump 🞏Pipeline riser 🞏Compressor 🞏Borrow pit 🞏Enhanced Oil Recovery (EOR)\* 🞏Steam Assisted Gravity Drainage (SAG-D)\*🞏Coalbed methane\* 🞏Other (describe)\*:\*Contact a Representative from the Environment Unit to discuss how to proceed.  |
| Total size (ha): | Lease width and length (m): |
| Access road length (m): | Access road width (m): |
| Camp (ha): | Temporary work space size and use (ha): Describe purpose: |
| 🞏Single well program 🞏Multi-well program If “Multi-well program”, how many wells are expected to be drilled on reserve by the Applicant within the next year? |
| Approximately how many wells have been drilled by the Applicant in the last 2 years? |
| b) Right of way | 🞏Pipeline |
| Total size (ha):  | Length (m) x width (m): |
| Outside diameter (mm): |
| c) Exploratory | 🞏2D Seismic 🞏3D Seismic 🞏Other:  |
| Energy source:  | Energy size: |
| Line widths (source and receiver if 3D) (m): | Spacing, if 3D (m): |
| Total length (km): | Total program area: |
| d) Other | Describe: |
| e) Have actions been taken to integrate the project with other existing or planned activities and resources to minimize impacts (i.e. common corridors, parallel or use of existing clearings or rights-of-way)?  | 🞏Yes 🞏No Describe:  |
| f) Provide rationale for the project including how it was located to avoid surrounding environmental constraints.  | Describe: |

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| 2. Product: | 🞏Oil 🞏Gas 🞏Sweet 🞏Sour ( % H2S) |
|  | 🞏Produced water 🞏Other (describe): |

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| 3.Describe all proposed project activities including duration (surveying to final reclamation): | Attach as Appendix 1 as per format described in Guide. |

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| 4.Describe all potential impacts, mitigation, and related residual effects: | Attach as Appendix 2 as per format described in Guide. |

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| 5. Drilling and Completion Fluids |
| a) Drilling fluid: | 🞏Not applicable (N/A) 🞏Gel chem 🞏Invert 🞏KCl 🞏Other:   |
| b) Drilling waste disposal (check all that apply): | 🞏Not applicable 🞏Off-reserve 🞏On-reserve🞏Tanks 🞏Land spray while drilling 🞏Landspray🞏Land spreading 🞏Pump-off 🞏Approved disposal facility 🞏Mix-bury-cover (on-site) 🞏Mix-bury-cover (remote sump) location: 🞏Other (describe): |
| c) Hydraulic fracturing  | 🞏N/A 🞏Applicable  |
| i) Number of stages: |
| ii) Estimated total fluid/sand volume of each stage: |
| iii) Describe how the frac fluid will be handled and stored to prevent contamination:  |
| iv) What is vertical distance between the deepest water well and the depth of the fractured zone? |

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| 6.Water source (wells and pipelines): | 🞏Not applicable 🞏Off-reserve 🞏On-reserve. If on-reserve, provide location, water type (surface or groundwater), and confirm appropriate authorizations have been secured: |
| Estimated water volume required: |
| Describe water disposal methods: |

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| 7. Distance to nearest improvements (m): | Improvement Type: Direction: Distance: Improvement Type: Direction: Distance: Improvement Type: Direction: Distance:  |

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| **Section C. STANDARD vs. NON-STANDARD APPLICATION** *Notes:** *If “Yes” is checked off in any of the following questions, this application will be processed as* ***non-standard.***
* *For* ***non-standard*** *applications, Appendix 6 additional mitigation measures are required to be included as per format described in Guide.*
 |
| 🞏Yes 🞏No | Are any variances for setback, timing, or environmental requirements as per Section 7 of the Guide required? |
| 🞏Yes 🞏No | 1. Will the proposed Project require crossing of any water body?
 |
| If “Yes”, check off the type of structure(s) or method(s) that will be used and identify on site diagram:🞏Snow (SF) and/or ice fills (IF) 🞏Strapped or cabled log fills (LF) 🞏Ford type crossings (F) 🞏Log crossing (LC)🞏Portable free-span bridge (PB) 🞏Existing bridge 🞏Non-mechanical crossing (NM) 🞏Other (describe): |
| 🞏Yes 🞏No | Is the project within a 1 in 100 year floodplain? |
| 🞏Yes 🞏No | Is the project located on native grassland? |
| 🞏Yes 🞏No | Are there problem soils? |
| 🞏Yes 🞏No | 1. Is there a requirement to apply for and secure other federal permits and/or authorizations (e.g. *Migratory Bird Convention Act, Species at Risk Act, Fisheries Act)*?

If “Yes”, provide additional details and attach Appendix 12.  |
| 🞏Yes 🞏No | Were any critical wildlife habitat features (dens, mineral licks, snags, etc.) identified?  |
| 🞏Yes 🞏No | 1. Is the project located on lands where there are known or suspected archaeological resources?
 |
| If “Yes”, was a determination of archaeological potential completed by a qualified Archaeologist? 🞏Yes 🞏No  |
| 🞏Yes 🞏No | 1. Was a culturally significant site or archaeological/historical resource identified during the site visit or is likely to be affected by the project activities?
 |
| 🞏Yes 🞏No | 1. Does the project overlap with lands with any other special designations?
 |
| 🞏Yes 🞏No | 1. Is the project considered a non-standard size?
 |
| 🞏Yes 🞏No | 1. Were any non-standard mitigation measures discussed with a representative from the IOGC environment unit prior to this application?
 |
| If “Yes,” provide details: |

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| **Section D. FIRST NATION CONTACT INFORMATION, TRADITIONAL ECOLOGICAL KNOWLEDGE, RESIDENT CONSULTATION AND COMMUNICATION WITH COMMUNITY**  |

Detail on how any concerns were addressed must be included in Appendix 3. |
| **1. First Nation Contact Information**  |
| Contact Name: |  |
| Job Title: |  |
| Phone #: |  |
| Email: |  |

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| **2. Site Visit and Traditional Ecological Knowledge (TEK)** |
| a) Site Visit | i) List names and titles of First Nation Representative present during the site visit: |
| ii) Date(s) of site visit: |
| b) TEK | i) List name(s) of other First Nation Elder or other First Nation Representative and date(s) contacted: |
| ii) Describe how TEK has been and will be considered in project planning and the life of the project: |
| c) Confirm all TEK setbacks will be met: |  🞏Yes 🞏No If “No”, describe mitigation: |

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| **3. Resident Consultation and Communication with Community**  |
| 🞏Yes 🞏No🞏N/A | a) Have all on-Reserve residents within a 500 m radius (100 m for RW) been consulted and their concerns addressed? If ‘No’, describe: |
| 🞏Yes 🞏N/A | b) If there are any residents within a 500 m radius (100 m for RW), confirm the ‘Resident Consultation Table’ is attached as Appendix 3. |
|  | c) Describe on-going community consultation and/or communication plans: |

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| **Section E. SITE-SPECIFIC ENVIRONMENTAL INFORMATION** |
| **1. Topography**  |
| 1. Topography:
 | 🞏Level 🞏 Rolling 🞏Hummocky 🞏Inclined 🞏Ridged 🞏Other (describe):  |
| 1. Predominant slope (direction, position, and percentage (%)/degree (0):
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| 1. Elevation change (high end to low end of lease):
 |  |
| 1. Potential stability issues:
 | 🞏Yes 🞏No If “Yes”, describe:  |

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| **2. Soils**  |
| a) Site-specific soil evaluation completed |  Confirm it is attached as Appendix 4: 🞏Yes 🞏Not applicable (For seismic/exploratory only)  |
| b) Erosion potential:  | 🞏Insignificant 🞏Slight 🞏Moderate 🞏High 🞏Extreme  |
| c) Erosion control required?  | 🞏Yes 🞏No If “Yes”, describe: |
| d) Soil stripping required? | 🞏Yes 🞏No If “Yes”, what type of soil stripping?🞏Two lift 🞏Single lift 🞏Other:If “Single lift” or “Other”, describe in detail and provide rationale:  |
| e) Soil Drainage: |  🞏Rapid 🞏Well 🞏Moderately well 🞏Imperfect 🞏Poor 🞏Very poor |

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| **3. Hydrology** |
| 1. What is the distance to the closest waterbody from the edge of the surface agreement?
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| b) Is there a waterbody less than 100 m from the edge of the surface agreement? | 🞏Yes 🞏No If “Yes”, fill out the information below:Distance of high water mark:Size/Dimensions (m): Approximate depth: If wetland, identify the class: 🞏N/A Is the waterbody fish-bearing? 🞏Yes 🞏NoIs the project up- or down-slope from waterbody?Confirm waterbody and riparian zone photographs are included in Appendix 10: 🞏Yes |
| c) Is there any evidence of any natural springs in the project area? | 🞏Yes 🞏No If “Yes”, what is the distance from the edge of the surface agreement? |

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| **4. Hydrogeology** |
| 🞏Yes 🞏No  | a) Are there any water wells with 500 m of well centre or seismic/exploratory program?If “Yes”, i) list distance(s) in m: ii) Below Ground Level (BGL) depth of each water well: iii) Confirm pre-drilling water well testing results are attached as Appendix 11. 🞏Yes  |

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| **5. Vegetation and Surrounding Land Use** |
| a) Vegetation type (check all that apply): | Native grassland🞏 Peatland/muskeg🞏 Sparsely- or non-vegetated🞏 Cultivated (choose one): Hayland🞏 Tame Pasture🞏 Cropland🞏Cut block🞏 Forest🞏Other🞏 Describe:  |
| b) If cultivated (includes crops, hayland, tame pasture): | % native species and % cultivated/forage species % and %Date last seeded:Location and quantity of native prairie/parkland within 1 km: List dominant species and percent cover: |
| c) If forested: | Merchantable timber present 🞏Yes 🞏No If “Yes”, provide a volume inventory as follows:Coniferous approx. volume: m³ or no. loads Spruce % Pine % Coniferous Average DBH (diameter at breast height):Deciduous approx. volume: m³ or no. loads Aspen % Other % Deciduous DBH:Describe salvageable timber handling:Describe non-salvageable timber handling:List dominant species and percent cover: |
| d) If native grassland: | % native species: % tame species (if applicable) % : %List dominant species and percent cover: |
| e) If Peatland: | List dominant species and percent cover: |

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| **6. Weeds, Invasive, and Problem Species** |
| 🞏Yes 🞏No | 1. Were any weeds, invasive, and problem species identified on or near the proposed surface agreement?

If “Yes”, list species of concern, provincial *Weed Act* classification, percent cover, and describe species-specific weed monitoring and management in Appendix 6. |

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| **7. Wildlife and Wildlife Sign** |
| Describe wildlife and wildlife sign observed during the site visit in the table below. Use Appendix 13 if additional space is required.  |

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| **Common Name** | **Scientific Name** | **Location and distance to project** | **Observation Type** | **Comments** |
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| **8. Species at Risk (Vegetation, Wildlife, and Fish)** |
| 🞏Yes 🞏No  | 1. Do any species at risk have potential habitat or ranges within the proposed project area?

If “Yes”, attach as Appendix 5. |

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| **9. Fish and Fish Habitat**  |
| 🞏Yes 🞏No | 1. Will the project impact fish habitat?

If “Yes”, provide details and attach Appendix 12. |

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| **Section F. AMENDMENT, ADDITIONAL WELL/PIPELINE, CHANGE OF USE, AND EXPIRY OF ENVIRONMENTAL PROTECTION TERMS** *Do* ***NOT*** *complete for* ***new*** *projects.* |

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| 1. Type of amendment, additional well/pipeline or change of use:  | 🞏 New well(s) | 1. # of new wells:
 |
| 🞏 New pipeline within existing right of way | 1. Size of pipeline:
2. Product:
 |
| 🞏New lands  | 1. Provide New ha:
2. Provide Total ha:
3. Will all setback, timing, and environmental requirements as per Section 7 in the Guide be met? 🞏Yes 🞏No

If “No”, include non-standard mitigation measures as Appendix 5.1. Is the size of addition >10 % of the original surface agreement? 🞏Yes 🞏No

If “No”, continue completing remainder of this section.**If “Yes”, STOP HERE** and complete the full Environmental Review Form (sections A-H) including **new** site visit information. |
| 🞏Change of use | 1. Describe change of use:
 |
| 🞏Horizontal multi-stage fracture |
| 🞏Environmental Protection Terms Letter has expired (project not undertaken within 1.5 years of date of letter) |
| 🞏Yes  | 1. Confirm First Nation Oil and Gas Representative has been notified.
 |
| 🞏Yes 🞏No  | 1. Are there any residents living within the consultation radii (100 m for pipelines, 500 m for surface leases or seismic/exploratory)?

 If “Yes”, attach Appendix 3. |
| 🞏Yes 🞏 N/A | 1. For a seismic or well program, have water wells within 500 m of the project been tested (as per section E.4.a)?

If “Yes”, attach as Appendix 11.  |
| 🞏Yes 🞏No | 1. Have any new species with ranges within the regional area been added to the *Species at Risk Act* list subsequent to the original approval?

If “Yes”, attach Appendix 5. |
| 🞏Yes 🞏No | 1. Is there any aspect of the project that has changed from the original application?

If “Yes”, describe: |
| 🞏Yes 🞏No | 1. Is there any other information relevant to the project, that IOGC should be aware of?

If “Yes”, describe: |

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| **Section G. APPENDICES***See Guide for all Appendices requirements.* |

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| 🞏Yes 🞏N/A | Appendix 1 - Project Activities and Duration Table  |
| 🞏Yes 🞏N/A | Appendix 2 - Potential Impacts, Mitigation, and Related Residual Effects Table |
| 🞏Yes 🞏N/A | Appendix 3 - Resident Consultation Summary Table  |
| 🞏Yes 🞏N/A | Appendix 4 - Soil Evaluation  |
| 🞏Yes 🞏N/A | Appendix 5 - Potential Species at Risk within the Proposed Project Area Table  |
| 🞏Yes 🞏N/A | Appendix 6 - Additional Mitigation Measures |
| 🞏Yes 🞏N/A | Appendix 7 - Survey Plan  |
| 🞏Yes 🞏N/A | Appendix 8 - Aerial Photographs and Maps  |
| 🞏Yes 🞏N/A | Appendix 9 - Site Diagram(s)  |
| 🞏Yes 🞏N/A | Appendix 10 - Site Photographs  |
| 🞏Yes 🞏N/A | Appendix 11 - Pre-construction Water Well Test Results |
| 🞏Yes 🞏N/A | Appendix 12 - Correspondence/Permits from Other Federal Departments |
| 🞏Yes 🞏N/A | Appendix 13 - Pre-Development Surveys or Third-Party Reports |
| 🞏Yes 🞏N/A | Appendix 14 - Additional Information |

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| **Section H. PRESENTATION OF THE ENVIRONMENTAL REVIEW** IOGC and the First Nation must be informed of **any changes** to the project after the signature date.  |
| To be completed by the Applicant: |
| **I hereby certify that the information provided is accurate and complete.** **I hereby certify on behalf of the Applicant, all mitigation measures described in Appendices 2 and 6 will be implemented and will not cause any significant adverse environmental impacts.**  |
| Signature: |   | Date: |  |
| Name: |  |
| Title: |  |
| Organization:address: |  |
| Phone number:Email: |  |
| To be completed by the Qualified Environmental Professional[[1]](#footnote-1): |
| **I hereby certify that the information provided in this application is accurate, complete, and corresponds to my interpretation of the project.** **I hereby certify that the proposed project will not cause any significant adverse environmental impacts.**  |
| Signature and professional association # or stamp: |   | Date: |  |
| Name: |  |
| Title: |  |
| Organization:address: |  |
| Phone number:Email: |  |

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| 🞏Yes 🞏No | Has a copy of the Environmental Review Form been forwarded to the First Nation Chief and Council care of the Oil and Gas Representative? |
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| **Section I. DECISION** TO BE COMPLETED BY INDIAN OIL AND GAS CANADA |
| **I have analysed the project and its potential environmental effects and/recommend that:** **The project is not likely to cause significant adverse environmental impacts and can be implemented as described with the application of the proposed mitigation measures \_\_\_\_\_.****The project should undergo a detailed environmental review, based on the information below \_\_\_\_\_.****The project is likely to cause significant adverse environmental impacts which are unable to be mitigated \_\_\_\_\_.****This application is incomplete due to:**  |
| Signature: |   | Date: |  |
| Name: | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Title: | Environmental Analyst |
| Phone number: | 403.292.  |
| Contact with First Nation Oil and Gas Representative | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| To be completed by the Manager, Environment  |  |
| **I recommend that:** **1. The project is not likely to cause significant adverse environmental impacts and can be undertaken with the implementation of the proposed mitigation measures \_\_\_\_.****2. The project should undergo a detailed environmental review, as recommended \_\_\_\_.****3. The project is likely to cause significant adverse environmental impacts which are unable to be mitigated and is not approved as proposed \_\_\_\_.** |
| Signature: |   | Date: |  |
| Additional Information/Rationale/Notes/Documents: |
| *EX* 🞏 *OS*🞏 *RW*🞏 *#:\_\_\_\_\_\_\_\_\_\_\_ Reserve name and number:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Project Location:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* *Company: ­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* *File #: E5010-6-0\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_UNC. CIDM#:\_\_\_\_\_\_\_\_\_\_\_\_\_ PA’d:* 🞏 |

1. IOGC’s Environmental Professional requirements are described on page 3 of the Guide. [↑](#footnote-ref-1)