

APPENDIX 3 – LOC APPLICATION (EAST RAIL LOOP & ACCESS)

Application for Surface Dispositions

<i>Please Print Or Type</i>	EFR attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A					File Number:									
	If No, AOA # _____ or					Confirmation Number:									
	Other: _____					FNC Number: Not Issued									
<input type="checkbox"/> Mineral Surface Lease [MSL]		<input checked="" type="checkbox"/> Licence of Occupation [LOC]			<input type="checkbox"/> Pipeline Installation Lease [PIL]			<input type="checkbox"/> R.E.A. Easement [REA]							
<input type="checkbox"/> Pipeline Agreement [PLA]		Project Name: Grassy Coal					<input type="checkbox"/> Easement [EZE]								
Application:							Transmission Line								
<input type="checkbox"/> Class I [INDEX > 2690]							Length _____ km								
<input type="checkbox"/> Class II [INDEX < 2690]							Kilovolts								
Does this application include watercourse crossings regulated under the <i>Water Act</i> (Ministerial) Regulations' Code of Practice for Pipelines and Telecommunication Lines Watercourse Crossings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, the applicable <i>Water Act</i> Notice must be submitted with this application.															
Applicant: Benga Mining Limited					Client ID: 1008823002			Applicant File Number Grassy Mountain Coal Mine							
Address: PO Box 660, 12331 - 20 Avenue							Tel: <small><contact information removed></small>								
City/Province: Blairmore Alberta					Postal code: T0K 0E0			Fax:							
Contact person/Agent as above <input checked="" type="checkbox"/> or:							File:								
Address:							Tel:								
City/province:					Postal code:			Fax:							
Attached: <input checked="" type="checkbox"/> Sketch <input type="checkbox"/> Survey Plan <input type="checkbox"/> As Built					Occupant's consent: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Not Required										
Purpose of application: <input type="checkbox"/> Wellsite <input type="checkbox"/> Access <input type="checkbox"/> Pipeline <input type="checkbox"/> Powerline <input checked="" type="checkbox"/> Other Coal Mine															
Land being applied for [<i>Attach Schedule if insufficient space</i>]															
Name of Subdivision					Subdivision Plan			Block		Lot		Parcel			
					8810387					00A					
Qtr/LS	Sec	Twp	Rge	Mer	Qtr/LS	Sec	Twp	Rge	Mer	Qtr/LS	Sec	Twp	Rge	Mer	
See	Table	2-2													
Are you a Canadian citizen? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Have you attained the age of 18 years? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Are you an employee of the Government of Alberta or member of the Legislative Assembly? <input type="checkbox"/> Yes [<i>Dept/Agency/Board</i>] <input checked="" type="checkbox"/> No										
<Original signed by>					For Internal Use Only										
Signature _____					Authorization is hereby granted to enter upon and immediately occupy public land as described on this application and in accordance with the plan/sketch submitted to the issuing regulatory body subject to conditions specified in schedule "A":										
Steve Mallyon Print Name															
October 1, 2016 Date		\$ _____ Amount Enclosed									_____ Date		_____ Authorizer, <i>Public Lands Act</i>		
Approval from	Lands	Forest	F & W	Trans							Parks				
Referral Date										Copies for:					
Received Date										Municipal Authority					
Comments:					Field Services										
					Forest										
					F & W										
					Other										

Completion of EFR Cover Document For all Dispositions 2.0 Environmental Field Report (EFR)

The cover document and the appropriate supplement form must be submitted for each surface disposition application. All blanks must either be filled in or 'N/A' noted where applicable.

Failure to fill out the document and form(s) completely will result in the EFR being rejected.

New Revised

Date Submitted 01/10/2016 Department Number _____

_____ dd/mm/yyyy

Site/Project Name: Grassy Mountain Coal Mine

A. Communications

1. Applicant: Benga Mining Limited

2. Company contact person for EFR: Steve Mallyon

Phone: <contact information removed>

3. E-mail: <email address removed>

Cell Phone: (____) ____

4.

5. Company representative who conducted the onsite assessment for the EFR:

Cal Clark

6. Phone: <contact information removed> -

Cell Phone: (____) ____

7. Fax: (____) ____

E-mail: <email address removed>

8. Date of on-site assessment: 2014 to 2016
dd/mm/yyyy

Note: The Regulatory body reserves the option to audit individual EFR's to ensure field visits have been conducted and information supplied is accurate.

B. Surface Location

LSD 03 Sec 02 Twp 008 Rge 04 W 5

To:

LSD 06 Sec 02 Twp 008 Rge 04 W 5

1. Construction is proposed under the following soil conditions (check the box that applies):

Frozen

Non-Frozen

Other (If "Other", explain)

See Section 3.2 of Public Lands Act Application

Proposed construction date: Q3 2017 to Q4 2018
dd/mm/yyyy

2. Specify associated developments/dispositions that may be required as a result of this disposition.

- Power line
- Pipeline
- Compressor
- Metering Station
- Access
- Other MSL for the mining area and access corridor and LOC for western portion of the rail loop. DML application for the construction camp will be submitted to Alberta Environment and Parks (see Public Lands Act Application)

Land Standing Review

3. A complete Land Standing Review check must be made on the proposed area.

Date Land Standing search was completed: 30/09/2016
dd/mm/yyyy

Reservation/Activity Number	Action required/identify conflicts/contact name and or comments
See Public Lands Act Application Table 3-1.	

- a. Within a Provincial Grazing Reserve? Yes No
If 'Yes', complete the Provincial Grazing Reserve template and attach to the Environmental Field Report. (Refer to Appendix I in the instruction document.)
 - b. Within the Chungo Access Management Area? Yes No
If 'Yes', complete the Chungo Area template (located at the end of IL 2005-01 – Annex to Chungo Creek Industrial Access Management Area Information Letter and attach it to the Environmental Field Report.
 - c. Within a FireSmart Community Zone? Yes No
If 'Yes', contact Forest Protection Division for additional hazard reduction requirements.
 - d. Follow the "Bear Smart" program to reduce bear-human conflicts and increase public stewardship of black and grizzly bears in Alberta by providing strategies, information and education materials to its staff and contractors, see srd.alberta.ca and search for "Alberta BearSmart"
4. Are Permanent/Research Sample Plots/Rangeland Benchmarks located within 100 m of the boundary of the lands under application? Yes No

If 'Yes', indicate the legal land description and GPS coordinates for each plot/benchmark in relation to the disposition boundary (degree, decimal, minutes).

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____

Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____

Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____

Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____

Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____

Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____

Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____

Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____

Latitude _____ Longitude _____ Distance away _____ m

PSP's held by the Regulatory body appear as DRS or PNT reservations on the LSAS report. The forest industry also has sample plots, and if these are registered, they will appear as ISP's on the LSAS report. If the forest industry sample plots are not registered, they will not appear on the LSAS report. The proponent is responsible for determining if there are any PSP's or ISP's on the land under application. PSP's and ISP's must not be disturbed.

Stakeholders, Other Land Users

5. Is there potential impact on or conflict with stakeholders and other land users? Yes No

If "Yes" to either, please list and explain mitigation:

See Section 3.2.2 and 3.2.3 of the PLA Application for details.

6. What actions have been taken to integrate this disposition with other existing/planned activities and resources to minimize the impacts on the land base? (Check appropriate boxes.)

- Not applicable
- Use common corridor
- Parallel existing clearing/right of way
- Use existing clearing/right of way
- Other

Explain: Location of the rail loop was determined based on consultation with stakeholders (see section 3.2.4 of PLA Application).

7. Identify any aesthetic concerns related to the proposed activity (i.e., negative effects on the aesthetic/sensory aspects of the surrounding land including view, smell, noise, etc.).

- Not applicable
 From public access
 From residence
 From recreation facility
 Other Land Users

Explain: Visual impacts due to the rail load-out facility was raised as a concern by stakeholders. See Section 3.2.5 of the PLA Application for aesthetic concerns raised by stakeholders and Bengas response.

8. Are there any conflicts with Access Management Plans, Integrated Resource Plans or policy documents for the area? Yes No

If 'Yes', explain mitigation strategy: Land and resource use planning is discussed further in Section 3.2.6 of the PLA application.

9. Was First Nations (Aboriginal) consultation required by the Regulatory body? Yes No

If 'Yes', with whom: See Section 3.2.7 of the PLA Application for a list of First Nations groups who were consulted.

C. Wildlife/Environmental Concerns

1. Within a Key/Critical Wildlife Zone? Yes No

If 'Yes', provide information on mitigation strategies that will be implemented: See Section 3.3.1 of the PLA Application.

2. Wildlife Timing Constraint apply? Yes No

If 'Yes', provide dates of restricted period: From See Section 3.3.2 of the PLA Application To _____ (See Provincial Timing Guidelines or FW referral maps.)

3. Fisheries Timing Constraint apply? Yes No

If 'Yes', provide dates of restricted period: From _____ To See Section 3.3.2 of the PLA Application (See Provincial Watercourse Codes of Practice for restricted periods.)

4. Within a Caribou Area? Yes No. If 'Yes', specify the Caribou Protection Plan number and name.

Species at Risk (Plant/Animals)

5. Is it likely that a species at risk (not including Woodland Caribou in number 4 above) will be found in the area of the proposed development? Yes No

If 'Yes', specify the status and protective strategy for each species: For further details on species at risk within the proposed activity, see Section 3.3.3 of the PLA Application.

<p>Species 1 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>	<p>Species 2 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<p>Species 3 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>	<p>Species 4 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>
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Alberta Fish and Wildlife Division recommends predevelopment inventory be conducted on all native grasslands habitats within the Grassland Natural Region due to high concentration of Species at Risk and limited site specific information on occurrences.

6. Has a pre-development Species at Risk inventory been completed to alert the applicant of any wildlife concerns related to this project? Yes (copy of inventory attached) No

If 'No', explain: See Section 3.3.3 of the PLA Application

Has the activity been assessed to ensure it does not negatively affect any species at risk? Yes No

If 'No', explain: The project has been assessed to determine its effect on species at risk and mitigation measures have been suggested to reduce adverse effects. Additional details are presented in Section 3.3.3 of the PLA Application.

8. If Access Restrictions apply, include legal land description and explain mitigation measures.

LSD _____ Sec _____ Twp _____ Rge _____ W _____

LSD _____ Sec _____ Twp _____ Rge _____ W _____

Explain mitigation strategy: _____

9. If within or adjacent (within 100 m) to a *Protected Area*, indicate the type of protected area and explain what measures will be taken to avoid conflict with the protected area.

Natural Area Ecological Reserve Park Other Crown reservations as discussed in Section 3.2.1 of the PLA Application.

Name of protected area: _____

Explain mitigation strategy: _____

10. Are there any environmentally *sensitive areas* in the vicinity (within 100 m) of the proposed activity that will require special measures to protect? Yes No

If 'Yes', list and explain: See Section 3.3.1 of the PLA Application for additional details.

11. Is the proposed activity within a permafrost area? Yes No

If 'Yes', specify the Permafrost Protection Plan number and name: _____

D. Historical Resources

Date search completed A Historical Resource Impact Assessment was undertaken as part of the EIA. See Section 3.4 of the PLA Application.

dd/mm/yyyy

What is the Historical Resource Value (HRV) of the affected lands?

Not Listed 1 2 3 4 5

If HRV is 1-5, an 'Application for Historical Resources Act Clearance' must be submitted to the Cultural Facilities and Historical Resource Division (CFHRD) of Alberta Community Development.

Date submitted 05/08/16

dd/mm/yyyy

Note: Activities on land that has an HRV or 4 or 5 may require a Historical Resources Impact Assessment (HRIA).

E. Vegetation and Timber Cover

Vegetation (check all that apply)

Native grassland

Treed wetland

Deciduous-dominant forest:

- | | | |
|---------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|
| <input type="checkbox"/> Tame pasture | <input type="checkbox"/> Shrubby wetland | <input type="checkbox"/> ("D" less than 30% coniferous trees) |
| <input type="checkbox"/> Cropland | <input type="checkbox"/> Grass or grass-like wetland | Coniferous-dominant forest: |
| <input checked="" type="checkbox"/> Sparsely or non-vegetated | <input type="checkbox"/> Native aspen parkland | <input checked="" type="checkbox"/> ("C" more than 70% coniferous trees) |
| <input type="checkbox"/> Cutblock – planted | <input type="checkbox"/> Other (specify) _____ | Mixedwood forest: |
| <input type="checkbox"/> Natural regeneration >2 m | | <input type="checkbox"/> ("CD" 70% to 50% coniferous trees) |
| | | <input type="checkbox"/> ("DC" 50% to 30% coniferous trees) |

Timber Salvage

1. Merchantable timber present? Yes No

Provide a volume inventory as follows:

Coniferous approx. volume 200 m³ or _____ number of loads

Spruce 0% Pine 50% Other 50 %

Deciduous approximate volume 25 m³ or _____ number of loads

Aspen 100 % Other 0 %

2. Specify the timber disposition or FMA(s) shown on LSAS.

No disposition (Contact the Regulatory body)

Disposition number of FMA: No FMA, see Table 3-2 of PLA Application for lease and permit holders Section ,
holder name _____

3. Utilization standards:

Coniferous 15 cm stump diameter to a 11 cm top diameter.

Deciduous 15 cm stump diameter to a 11 cm top diameter.

4. Timber salvage waiver requested? Yes No

If 'Yes', provide justification: _____

5. Provide the name of the salvage purchaser See Section 3.5 of the PLA Application, or check one of the following:

Not known at this time

By TM88 (or equivalent)

By Timber permit

6. When will the salvage be removed/hailed from the site to a wood processing plant?

Proposed date start: 01/07/2017
dd/mm/yyyy

Proposed date complete: 01/12/2018
dd/mm/yyyy

Notes: The operator is responsible for moving the salvage to a site that is accessible to ensure all the wood can be removed. This may require forwarding the wood to a site with all-weather access.

A copy of the TM88 or equivalent must be submitted to the the Regulatory body to ensure proper tracking of ownership, transport and manufacturing can occur.

F. Soil and Vegetation Management

Soil salvage, storage, replacement, and handling procedures shall be in keeping with those outlined in *Section 6 "Site Disturbance, Clearing and Soil Management,"* of the *"Public Lands Operational Handbook"*.

Note: Projects on specific areas of public land may require a soil survey. The proponent is to identify such requirements during the planning process.

Are there soil sensitivities (i.e., shallow depth to water table; shallow depth to bedrock; soils are gravely or stony, etc.)? Yes No

Explain: See Section 3.6.1 of the PLA Application for details on soil sensitivities.

Surface expression (i.e., topography). See Section 3.6.1 of the PLA Application for details on project area topography.

Site drainage (i.e., drainage is very poor, poor, imperfect, moderately well, well, rapid, or very rapid)

See Section 3.6.1 of the PLA Application for details on site drainage.

Are there problem vegetation/weeds/invasive species on or near site at time of assessment?

Yes No **Explain** Problem vegetation/weeds/invasive species are discussed further in Section 3.6.2 of the PLA Application.

Identification of species, degree of infestation and approximate amount of area infested per species.

	Species 1	Species 2	Species 3
Trace (rare)		Refer to Section 3.6.2 of the PLA Application.	
Low (occasional)			
Moderate (scattered plants)			
High (fairly dense)			

Is there a risk of weed spread to the site if development proceeds?

High Moderate Low

If any risk, provide details in reclamation and construction sections of supplements.

If high or moderate, show location on the application plan.

G. Incidental Activities

The applicant is to identify and outline on the application plan any incidental activities required for temporary use.

Note: No additional approval is required for incidental activities that are applied for with the disposition and included in the plan.

If the incidental activity is *not approved* under the disposition, a separate approval is required. Incidental activities approved in this manner are for temporary use only and are *not* part of the surface disposition.

1. According to field assessment, will additional incidental clearings be required? Yes No

If 'Yes', indicate the purpose:

- Campsite Borrow Pit Salvage Deck
 Temporary Workspace Backslope Temporary Access
 Other Incidental activities are discussed further in Section 3.7 of the PLA Application

2. Are any additional clearings planned in reforested areas? Yes No

If 'Yes', explain _____

The Core Operating Conditions are standard practices that must be applied to all activities.

H. Core Operating Conditions

Prior to Entry - Confirmation Number

099 The holder shall contact and advise Regulatory body of its intentions:

- prior to entry upon the lands for a stated purpose,
- prior to any additional construction during the term of this authority,
- at the completion of operations or construction, and
- upon abandonment of this activity.

Upon contact prior to initial entry on the land, the Regulatory body shall issue a confirmation number that shall be maintained on file by the holder and be provided to the Regulatory body on request.

<Location & Telephone No.> _____

Adverse Ground Conditions

105 Any activity on the land during adverse ground conditions must be suspended if the activity is likely cause unacceptable damage to vegetation or soil, as may be determined by the holder or the Regulatory body.

Sample Plots

108 No entry is allowed within the boundaries of any research or sample plot.

Reclamation - Interim

127 The holder shall reclaim all disturbed land surfaces within two growing seasons. Interim reclamation, including site and debris clean-up, slope stabilization, recontouring with subsoil, and spreading of topsoil shall be done progressively and concurrently with operations.

Reclamation - Final

128 Final surface reclamation must meet the requirements for the specific activity in place at the time of abandonment.

Noxious Weeds

131 The holder shall cut, keep down and destroy all noxious weeds and restricted weeds as per the *Public Lands Act*.

Waste Material Disposal

135 The holder shall remove all garbage and waste material from this site to the satisfaction of the Regulatory body, in its sole discretion.

Watercourse/Water Body - No Material to be Deposited

148 The holder shall not deposit or push debris, soil or other deleterious materials into or through any watercourse or water body or on the ice of any watercourse/water body.

Erosion Prevention

158 The holder shall take all precautions and safeguards necessary to prevent soil and surface erosion to the satisfaction of the Regulatory body in its sole discretion.

Natural Drainage - No Interruption

161 The holder shall not create any interruptions to natural drainage, including ephemeral draws that may result in blockage of water flow.

**Access
4.0 Supplement B
Environmental Field Report (EFR)**

The cover document and the appropriate supplement form must be submitted for each surface disposition application. All blanks must either be filled in or 'N/A' noted where applicable.

Failure to fill out the document and form(s) completely will result in the EFR being rejected.

New Revised

Date Submitted 01/10/2016
dd/mm/yyyy

LOC Number _____

Legal land description: From: LSD 03 Sec 02 Twp 008 Rge 04 W 5
To: LSD 06 Sec 02 Twp 008 Rge 04 W 5

Note: The Pre-disturbance Planning and Surface Access Management sections of the Public Lands Operational Handbook should be consulted when dealing with new access development, extensions or upgrading existing access. Before a road is approved, the applicant may be requested to present the advantages and disadvantages on any alternate proposals, the rationale for selecting a particular route and the trade-offs made.

A. Type of Access/Dimensions

1. Initial access width See below m and type of access:

- undeveloped dry
- undeveloped frozen
- dry weather
- all-weather (permanent)
- NA

Explain: A description of the proposed rail loop is presented in Section 5.1 of the PLA Application.

2. Final access width See below m as applied for and type of access:

- undeveloped dry
- undeveloped frozen
- dry weather
- all-weather (permanent)

Explain: A description of the proposed rail loop is presented in Section 5.1 of the PLA Application.

Notes: For winter access it is recommended that existing seismic lines be used for initial access to a location. Widening of these lines should be minimized. Minimal widths for initial access are to be used wherever possible. Once a well or development is considered viable, the applicant generally plans to move to a wider ROW (e.g. 20m) for development of a high grade road. In this case, the 20m width can be applied for with the understanding there will be no additional clearing beyond the 8-10m width indicated until the development is proven viable.

If the entire **ROW** is cleared initially and then not required for the development, it will be treated as **Unauthorized** use of public land and appropriate enforcement action will be taken.

If electricity is required at a facility, the **ROW** must be planned to ensure the power line is located on the downwind side. This is required to maximize the tree-free area adjacent to the power lines, thus reducing the potential of falling trees hitting the power line and possibly starting a wildfire, as well as, cutting off power to the facility.

Where a road, pipeline, and power line **ROW** are required, it is recommended the power line be located between the road and pipeline. This greatly reduces the clearing requirements and keeps the power line safe from falling trees.

B. Topography

1. Mark more than one box to show range:

- Level (0-2%)
- Gentle (3-10%)
- Moderate (11-15%)
- Steep (16-30%)
- Very steep (over 30%)

Explain: Topography variable due to existing development, as presented in Section 5.2 of the PLA Application.

C. Watercourse Crossings

Avoidance, Minimizing and Mitigation/Compensation, in that order, are considerations for watercourse crossings. See the instructions for additional explanation.

1. Will watercourse crossings be installed? Yes No. (If 'No', go to next section).
If 'Yes', number the watercourse crossings on the survey plan and complete the table below.

Note: All licences, authorizations and approvals issued by the Regulatory body under the *Public Lands Act, Forests Act, Environmental Protection and Enhancement Act and Water Act*, should not be taken to mean the proponent (applicant) has complied with federal legislation. Proponents should contact Fisheries and Oceans Canada in the location nearest to them (Peace River, Edmonton, Calgary, Lethbridge) in relation to the application of federal laws, including but not limited to the *Navigable Water Protection Act* and the *Fisheries Act (Canada)*.

Crossing Number	Crossing Method	Culvert/Bridge Size Diameter (mm) x length (m)	Water-course Size Class (1-4)	LSD	Sec	Twp	Rge	Mer	Specify if restricted activity period (dd/mm/yyyy)	Class of Waterbody from COP (A,B,C,D)
1	Initial	X							From	
	Final								To	
	Initial	X							From	
	Final								To	
	Initial	X							From	
	Final								To	

2. Temporary watercourse crossings will be removed by _____
dd/mm/yyyy

Note: Temporary crossings must not be installed or existing ones removed during restricted activity periods unless clean flow can be maintained. Crossings installed during winter work should be removed prior to spring break up.

D. Construction Strategy

Plan attached (include all areas of existing clearing(s) and new clearing(s) to be used, and their dimensions)

1. Vegetation removal: Explain: See below.

2. Brush disposal: Explain: See below

3. Topsoil handling/Topsoil stripping width: (Check the appropriate boxes for initial and final access)

Minimal surface disturbance (no stripping)

Stripping **Single Lift** **Two Lift** **Other** See below

Explain if more than one box has been checked. See below

Additional details: The proposed construction strategy, including vegetation/brush removal and topsoil handling, is discussed in Section 5.4 of the PLA Application. A figure showing existing clearing and new clearings required is provided in the PLA Application as Figure 5-2.

E. Reclamation Strategy

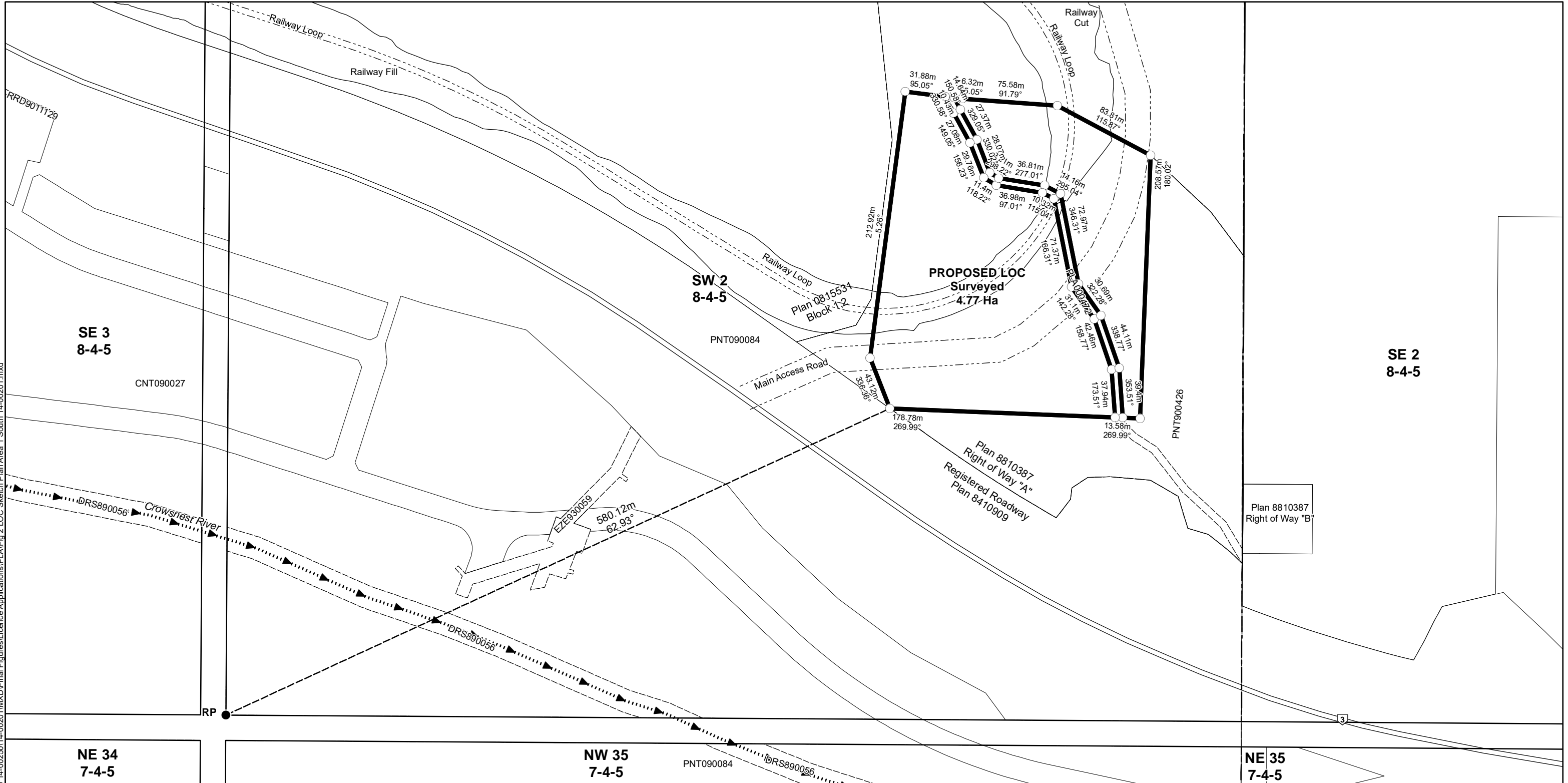
Revegetation strategy: (Check appropriate boxes)

Natural recovery **Native seed** **Non-native seed** **Other** See Section 5.5 of the PLA Application

Interim: The reclamation strategy for the rail loop is discussed in Section 5.5 of the PLA Application.

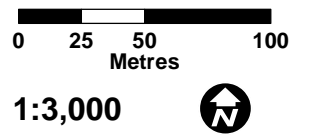
Production/Operation: The reclamation strategy for the rail loop is discussed in Section 5.5 of the PLA Application.

Document Path: K:\Active Projects\2014\AP 14-00201\14-00201\Final\Figures\Licence Applications\PLA\Fig 2 LOC Sketch Plan Area 1 South 14-00201.mxd



- LEGEND**
- Deflection Point
 - Reference Point
 - - - Railway Loop/Main Access Road
 - - - Reference Point Tie Line
 - ▬▬▬ Creek (Flow Direction)
 - ▬▬▬ Primary Highway
 - ▬▬▬ Proposed LOC Boundary
 - ▬▬▬ Disposition
 - ▬▬▬ Section Boundary
 - - - Quarter Section Boundary

BENGA MINING LIMITED
 SKETCH PLAN OF
**PROPOSED LICENSE OF OCCUPATION (LOC) FOR
 RAILWAY LOOP AND CLASS I ACCESS**
 WITHIN PLAN 8810387 RIGHT OF WAY "A"
 AREA REQUIRED ON SURVEYED LANDS: 4.77 Ha
 AREA REQUIRED ON UNSURVEYED LANDS: 0.00 Ha
 RAIL LOOP DIMENSIONS IRREGULAR
 ACCESS ROAD 305 m LONG AND 20 m WIDE
 PLAN PREPARED BY MILLENIUM EMS SOLUTIONS LIMITED



PROJECT: 14-00201
 DRAWN BY: JL
 CHECKED BY: KY
 DATE: SEPTEMBER 30, 2016
 Data Sources: AltaLIS, 2016; MEMS, 2016
 Datum/Projection: UTM 3TM Nad 83

Disclaimer: This figure was derived from multiple data sources and while we make every effort to assure its accuracy, Millennium EMS Solutions Ltd. disclaims any representation or warranty and assumes no liability either for any errors, omission or inaccuracies that may occur.

Public Land Standing

Selection Criteria

Selected Sections

Geo-Administrative Area:	Y
Requested Lands:	Y
Title Information:	N
Activity Details:	Y
Subdivisions:	NA
Client List:	Y

Selected Activities

Surface Dispositions	Y	Status:	Number Assigned, Application, Letter of Authority, Land Amendment Application, Letter of Authority for Amendment, Active/Disposed, Cancelled - Outstanding Obligation
		Types:	All
Geophysical	NA	Status:	All
		Types:	All
Reservations	Y	Status:	Number Assigned, Application, Letter of Authority, Land Amendment Application, Letter of Authority for Amendment, Active/Disposed, Cancelled - Outstanding Obligation
		Types:	All
Encumbrances	Y	Status:	All
		Types:	All
Land Postings	Y	Status:	Number Assigned, Open, Closed
		Types:	All

Land Keys

W5-04-008-02-SW

Public Land Standing

Requested Land

Requested Land	Ownership Status	Administered By	Titled Status	Survey Status	Area in Hectares		Area in Acres		Water
					Land	Title	Land	Title	
W5-04-008-02-SW	Mixed	FLW-MLT	Titled	Surveyed	46.960	46.519	116.04	114.95	Partly Covered
<i>Remarks: SUB 24.46 PL 8711401 (4716GEN) BLK 2 FLW 1.09 BALANCE 328IRR (IRR513) RIVER DIVERSION FRHOLD 114.95 BALANCE INCL RDS & RIVER SUB 19.50 PL 8810387 (4725GEN)</i>									
TOTAL					46.960	46.519	116.04	114.95	

Geo Administrative Areas

ALBERTA ENERGY REGULATOR W5-04-008	SOUTH REGION	Code: AER-S
COAL DEVELOPMENT REGION W5-04-008-02	SETTLED	Code: CDR-1
ENVIRONMENT CORPORATE REGION W5-04-008	SOUTHERN REGION	Code: ENV-1
ENVIRONMENT CONS. & RECL. DISTRICT W5-04-008	NO. 20	Code: ERD-020
EASTERN SLOPE ZONE W5-04-008		Code: ESZ
FOREST MANAGEMENT UNIT W5-04-008-02-SW	SOUTHWEST	CO1 SOUTHERN ROCKIES Code: FMU-C-51
FOREST MANAGEMENT UNIT W5-04-008-02	SOUTHWEST	CO2 SOUTHERN ROCKIES Code: FMU-C-52
FISH & WILDLIFE ADMIN REGION W5-04-008	SOUTHERN REGION	BLAIRMORE Code: FWA-1-02
FISH AND WILDLIFE DISTRICT W5-04-008	SOUTHERN REGION	BLAIRMORE Code: FWD-1-09

Public Land Standing

FISH & WILDLIFE REFERRAL LANDS			Code: FWR
W5-04-008-02			
GENERAL LANDS CLASSIFICATION	WHITE		Code: GLC-W
W5-04-008-02			
GRAZING ZONE	A2		Code: GRZ-A2
W5-04-008			
INTEGRATED RESOURCE PLAN	CROWSNEST CORRIDOR		Code: IRP-C4
W5-04-008-02			
LAND USE AREA	SOUTHWEST 1	BLAIRMORE	Code: LUA-SW1-2
W5-04-008			
OPERATIONAL APPROVAL DISTRICTS	South Saskatchewan Region	South Saskatchewan District	Code: OPD-5-1
W5-04-008			
RANGELAND DISTRICT	SOUTHWEST	PINCHER CREEK	Code: RLD-SW-6
W5-04-008-02			
REGIONAL PLANNING COMMISSIONS	OLDMAN RIVER		Code: RPC-02
W5-04-008			
URBAN MUNICIPALITY	TOWN	BLAIRMORE	Code: UBM-T-009
W5-04-008-02-SW			
URBAN MUNICIPALITY	TOWN	MUNICIPALITY OF CROWSNEST PASS	Code: UBM-T-113
W5-04-008-02			

End of Geo Administrative Areas

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
CNT090027	Active/Disposed	2009/03/10	2034/03/31		175,167.31	70,887.690

CALGARY OFFICE - FORESTRY AND EMERGENCY RESPONSE DIVISON OF ENVIRONMENT AND SUSTAINABLE RESOURCE DEVELOPM
 0510 : BUFFER
 1 : NO RESTRICTON
 710 : SEE COMMENTS

Agency CommentsFOR EAP APPLICATIONS, SEND EMAIL TO BELOW ADDRESS BASED ON CRITERIA. A TEN DAY REFERRAL WINDOW WILL APPLY AND NOTE OF RECIEPT WILL BE PROVIDED BY EMAIL. IF NO REPLY IS RECEIVED THEN PROCEED WITH APPLICATION. NON-EAP APPLICANTS FOLLOW NORMAL REFERRAL PROTOCOLS. ALL PROPONENTS ARE TO REFER TO THE FIRESMART GUIDEBOOK FOR THE OIL AND GAS INDUSTRY, BEST MANAGEMENT PRACTICES FOR WILDFIRE PREVENTION AND FIRESMART FIELD GUIDE FOR WILDFIRE RISK AND MITIGATION STRATEGIES; LINK TO E-DOCUMENTS HTTP://WILDFIRE.ALBERTA.CA/FIRE-SMART-INDUSTRY/DEFAULT.ASPX FIRESMART CONSULATATIVE NOTATION COMMENTS: TYPES OF ACTIVITES AND DISPOSITIONS THAT REQUIRE REFERRAL; *RECREATION LEASE (REC) *DISPOSTION RESERVATION (DRS)-USE CRITERIA FOR MLL* ,SML AND LOC AS DEFINED BELOW *EASEMENT (EZE) *VEGETATION CONTROL EASEMENT (VCE) *LICENSE OF OCCUPATION (LOC)-HIGH GRADE ROAD OR ACCESS ROAD 20M+ WIDE *MINERAL SURFACE LEASE (MSL), *MISCELLANEOUS LEASE (MLL) *MISCELLANEOUS PERMIT (MLP) *PIPELINE AGREEMENT (PLA)-IF 20M+WIDE *PIPELINE INSTALLATION LEASE (PIL)- IF OVER 5 HECTARES *RURAL ELECTRIC ASSOCIATION EASEMENT (REA) *SURFACE MATERIAL LEASE (SML)- ONLY IF PEATMOSS *ALL AGRICULTURAL DISPOSITIONS REQUIRING FENCE LINE CLEARING/FIELD CLEARING AND DEBRIS DISPOSAL *REGIONAL GRAZING/TIMBER INTRGRATION PLANS . ALL APPLICATIONS MUST BE REFERRED VIA EMAIL TO THE "WILDFIRE PREVENTION OFFICER" AT THE CALGARY FORESTRY OFFICE: ESRD.EDS-CLGR-FIRESMART@GOV.AB.CA TYPES OF ACTIVITES AND DISPOSITIONS NOT REQUIRING REFERRAL *GEOPHYSICAL ACTIVITIES. *AGRICULTURAL DISPOSITIONS WHERE CLEARING IS NOT REQUIRED E.G. HAY PERMIT *HAP), FOREST GRAZING LICENSE (FGL) WITH NO FENCE LINES *TIMBER DISPOSITIONS

ACTIVITY DETAIL INFORMATION

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)		
5999 RN			2009/02/24		
W5-04-008-02-SW				(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
DRS890056	Active/Disposed	1989/05/17	2019/05/16	ENVIRONMENT AND WATER, DEPARTMENT OF 0460 : FISHERIES HABITAT PROTECTION AREA	0.00	0.000

ACTIVITY DETAIL INFORMATION

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)	Acres	Hectares
113821 MS			1989/04/26		
W5-04-008-02-SW		BED & SHORE OF THE CROWSNEST RIVER		(0.00)	(0.000)

PLA 000472	Letter of Authority	2000/02/16	2999/12/31	0.69	0.279
ATCO GAS AND PIPELINES LTD. (SOUTH)					

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N):
DIMENSION: 6 M

WITHIN 100M OF WATERBODY (Y/N): N PURPOSE: PIPELINE
CLIENT FILE NO:

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)	Acres	Hectares
34006 P			2000/03/24		
W5-04-008-02-SW				(0.69)	(0.279)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
PNT090084	Active/Disposed	2011/10/20	2021/10/19		132,888.84	53,778.200

PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV
 0181 : MULTIPLE RESOURCE CONCERNS
 5 : NO SURFACE SALE DISPOSITIONS
 710 : SEE COMMENTS

THIS LOCATION MAY FALL WITHIN AN AREA OF FOOTHILLS FESCUE GRASSLAND, A VERY VALUABLE NATIVE GRASSLAND TYPE THAT IS LIMITED IN REMAINING AREA. ROUGH FESCUE GRASSLANDS ARE VERY SENSITIVE TO SURFACE DISTURBANCE AND DIFFICULT AND COSTLY TO RECLAIM. PROPONENTS MUST CONSULT INFORMATION LETTER (IL) 2010-02, FESCUE GRASSLANDS -- PRINCIPLES FOR MINIMIZING SURFACE DISTURBANCE AND MAKE EARLY CONTACT WITH ALBERTA ENVIRONMENT & SUSTAINABLE RESOURCE DEVELOPMENT STAFF FOR THE AREA IN QUESTION. THE INFORMATION LETTER ADDRESSES OBLIGATIONS AND SPECIFIC DIRECTION REGARDING ALL POTENTIAL SURFACE DISTURBANCE RELATED ACTIVITY IN FOOTHILLS ROUGH FESCUE GRASSLAND PLANT COMMUNITIES. THIS DIRECTIVE SUPPLEMENTS THE ERCB'S IL 2002-01: PRINCIPLES FOR MINIMIZING SURFACE DISTURBANCE IN NATIVE PRAIRIE AND PARKLAND AREAS. IL 2010-02 MAY BE FOUND AT:
[HTTP://WWW.SRD.ALBERTA.CA/FORMSONLINESERVICES/INFORMATIONLETTERS/LANDSINFORMATIONLETTERS/DOCUMENTS/IL2010-02-FOOTHILLSFESCUEGRASSLANDPRINCIPLESFORMINIMIZINGSURFACEDISTURBANCE-MAR23-2010.PDF](http://www.srd.alberta.ca/formsonlineservices/informationletters/landsinformationletters/documents/il2010-02-foothillsfescuegrasslandprinciplesforminimizingsurfacedisturbance-mar23-2010.pdf) IL 2002-01 MAY BE FOUND AT:
[HTTP://WWW.ALBERTAPCF.ORG/RSU_DOCS/EUB_NATIVE_PRAIRIE.PDF](http://www.albertapcf.org/rsu_docs/eub_native_prairie.pdf)

ACTIVITY DETAIL INFORMATION

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
7837 RN			2011/09/09
7837 RN			2013/03/15

W5-04-008-02-SW

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares	
TFA 103358	Active/Disposed	2010/07/14	2011/07/14	MUNICIPALITY OF THE CROWNEST PASS			
ACTIVITY DETAIL INFORMATION							
	OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):	PURPOSE: NON-COMMERCIAL RECREATIONAL DEVELOPMENT			
	DIMENSION:		CLIENT FILE NO:				
			NO PLANS				
W5-04-008-02-SW					(0.00)	(0.000)	

Client List

Activity	Client ID	Name / Address	Province	Country	Postal Code
CNT090027	8072051-001	CALGARY OFFICE - FORESTRY AND EMERGENCY RESPONSE DIVISON OF ENVIRONMENT AND SUSTAINABLE RESOURCE DEVELOPM WILDFIRE MANAGEMENT BRANCH CALGARY WILDFIRE MANAGEMENT AREA 8660 BEARSPAW DAM RD NW CALGARY	Alberta	CANADA	T3L 1S4
DRS890056	8000026-009	ENVIRONMENT AND WATER, DEPARTMENT OF REGIONAL SERVICES 200 5 AVE S FLOOR 2 LETHBRIDGE	Alberta	CANADA	T1J 4L1
PLA 000472	0000233-003	ATCO GAS AND PIPELINES LTD. (SOUTH) 410 STAFFORD DR N LETHBRIDGE	Alberta	CANADA	T1H 2A8
PNT090084	8078165-001	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 782 MAIN ST ROOM 242 PO BOX 1420 PINCHER CREEK	Alberta	CANADA	T0K 1W0
TFA 103358		MUNCIPALITY OF THE CROWSNEST PASS P.O. Box 6000 Crowsnest Pass	Alberta	Canada	T0K0E0

 Total Activities: 5

DISCLAIMER

THIS STANDING REPORT IS PROVIDED SUBJECT TO THE CONDITION THAT HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF ALBERTA AND HER EMPLOYEES:

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*** END OF REPORT ***



June 22, 2016

Keith Bott
Riversdale Resources
PO Box 660
12331 20th Ave
Blairmore, AB T0K 0E0

RE: LOC FOR RAIL LOOP NEAR BLAIRMORE, AB (SECTION 2/3, TOWNSHIP 8, RANGE 4, W5M)

ATCO Gas has facilities within the proposed LOC, under Pipeline Agreement Application (PLA) number 000472. A majority of the gas main within the proposed LOC has been abandoned.

If any portion of the gas main remains in the proposed LOC, ATCO Gas requires the remaining portion of the gas main to be abandoned. This abandonment is done at the developer's expense prior to any surface construction within the proposed LOC. Please contact the Lethbridge Engineering Department at (403) 380-5400 to arrange for a gas main abandonment.

Please contact Alberta One-Call Corporation at <contact information removed> prior to any surface construction.

ATCO Gas has no objection to this proposal providing the above requirements are met.

If you require further information, please contact the undersigned at <contact information removed>

Sincerely,

ATCO Gas
<Original signed by>

Michael Leung
Distribution Design EIT, Lethbridge Region Operations
Email: <email address removed>
Phone: <contact information removed>