

APPLICATION FOR ECOLOGICAL RESERVE

1. Legal description of the area (or general "Metes and bounds" description)

2. Geographical location (relate to nearest settlement, mountain, river, etc.)

"Rimrocks", above Coldstream near Vernon

3. Indicate the biogeoclimatic zone of which the reserve is representative.

4. Approximate total acreage.

The interior Douglas-fir zone (IDFa and IDfb) and the Engelmann spruce - subalpine fir zone (ESSFa)

5. Purpose of the reserve.

Outstanding flora on talus parent material.

(a) Primary (state acreage)

640 acres (259 ha)

(b) Others if any (state acreage)

(d) Buffer areas (state acreage)

6. Attach a map and indicate: (a) the perimeters and acreage of the areas detailed in 5 above and (b) indicate the species and total timber volumes in these areas.

Signature T.C. Brayshaw
I.B.P. Surveyor

INTERNATIONAL BIOLOGICAL PROGRAMME

SECTION CT : CONSERVATION OF TERRESTRIAL BIOLOGICAL COMMUNITIES

CHECK SHEET (Mark VII) FOR SURVEY OF IBP AREAS*

To be completed with reference to the GUIDE TO THE CHECK SHEET

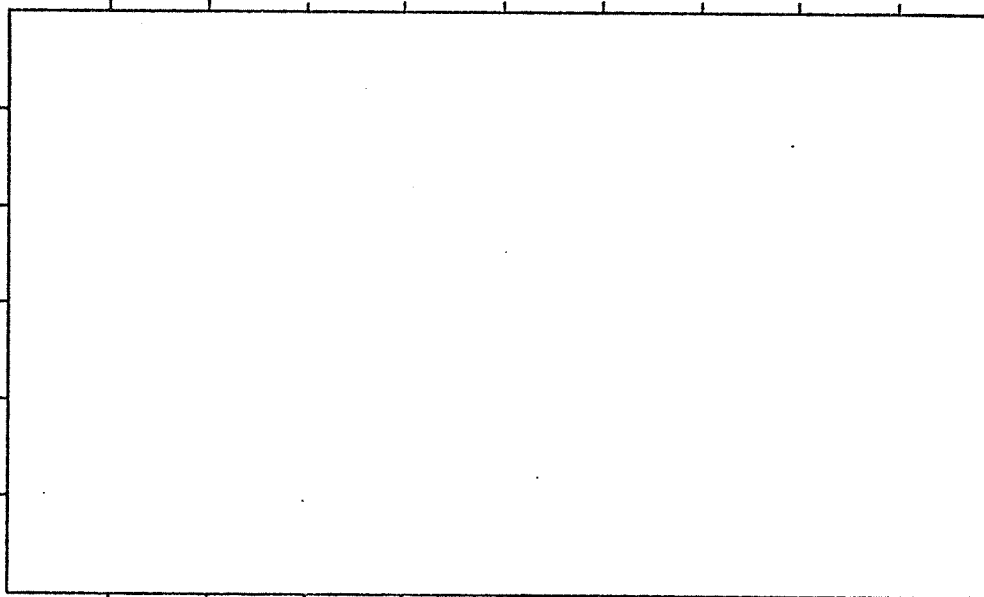
Serial Number

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For Data Centre Use only

1. 1. Name of surveyor T.C. Brayshaw J.E. Heriot & P.F. Mackie
 Provincial Museum R. R. 2
 2. Address of surveyor ..Victoria, B.C..... Vernon, B.C.....
 Canada
3. Check Sheet completed (a) on site X (b) from records
4. Date Check Sheet completed 10/June/1972

2. 1. Name of IBP Area "RIMROCKS", Vernon
2. Name of IBP Subdivision (or serial letter)
3. Map of IBP Area* showing boundaries attached? Yes ...X... No
4. Sketch map of IBP Area*. Please mark direction of north, the scale and grid numbers where applicable.

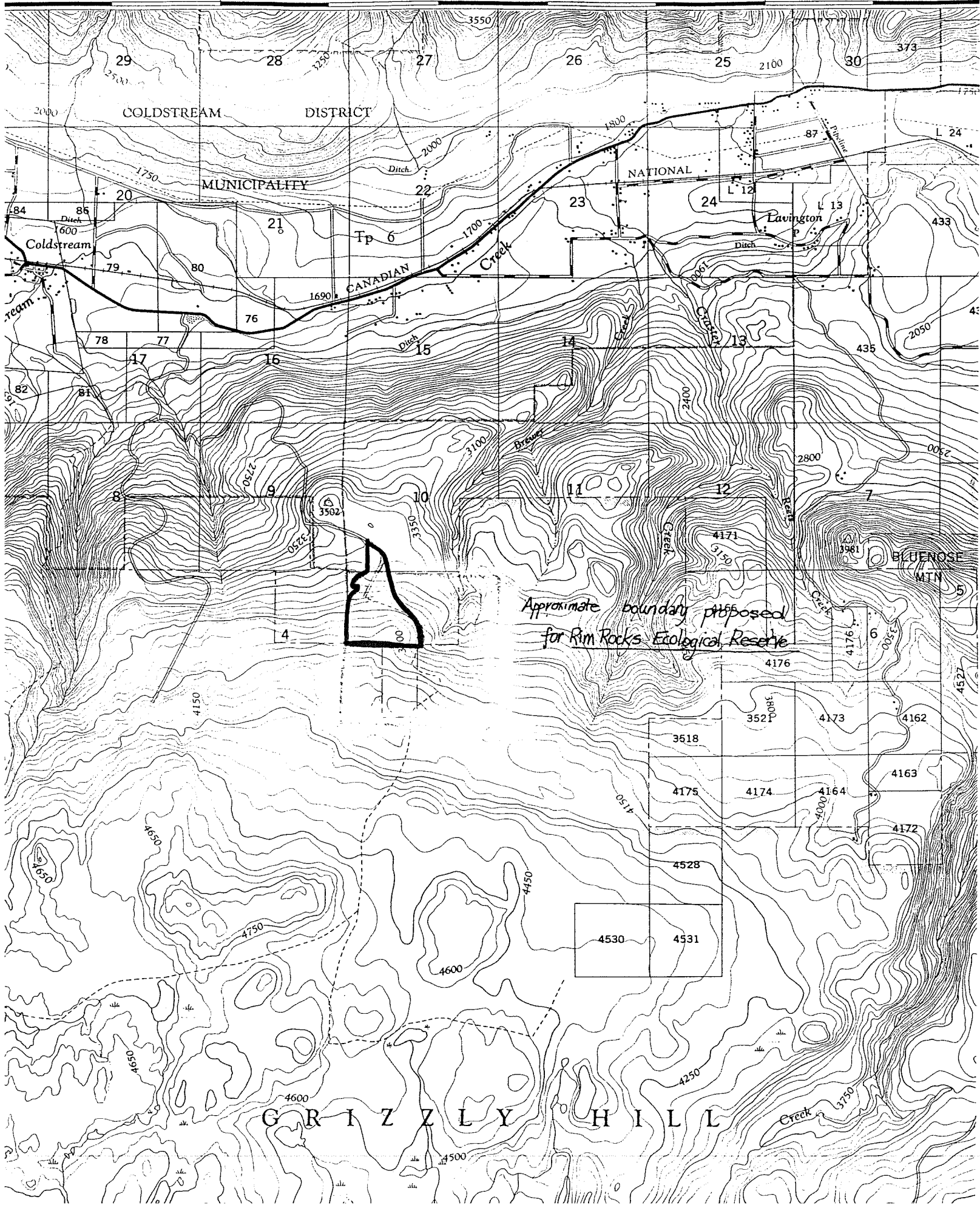


* For " IBP Area ", read IBP Area and/or IBP Subdivision.

Map added by J.P.M. July 1985

10'

05'



Approximate boundary proposed for Rim Rocks Ecological Reserve

3. Location of IBP Area*

1. Latitude 50° $11'$ N, N/S Longitude 119° $08'$ W, E/W
2. Country Canada
 State or Province British Columbia County
 (State or Province County)

4. Administration

- National 1. Official category Crown Land
2. Address of administration Dept. Lands, Forests & Water Resources (B.C.)
Victoria, British Columbia
Canada

International Class

3.

Included in U.N. List	Rejected from U.N. List	Area with formal conservation status	No formal cons. status
(A)	(B)	(C)	(D)

5. Characteristics of IBP Area*

1. Surface area (state units of measurement) 640 acres (259 ha)
2. Altitude (state units of measurement) Maximum 4200 feet (1280 m)
 Minimum 3100 ft. (940 m)

6. Climate

Nearest climatological station :

1. Name Vernon
2. Climatological station on IBP Area*? Yes No X...
3. If (2) not, distance from edge of IBP Area* (state units) 7½ miles (12 km)
4. Direction from IBP Area* NW
5. Additional data sheet attached? Yes No X...

7.

Vegetation and Soil

1

Vegetation

Community Reference Number	Vegetation Code					Plant communities (give usual name using full Latin names of a species where applicable)	Area (state units)
	Primary Structural Group	Class	Group	Formation	Sub-Formation		
1	1	A	1	7	a	<i>Pseudotsuga menziesii</i> - <i>Calamagrostis rubescens</i>	
2	1	A	1	7	a	<i>Pseudotsuga</i> - <i>Arctostaphylos Uva-ursi</i> - <i>Calamagrostis</i>	
3	2	G	1	3		<i>Saxifraga bronchialis</i> - <i>Woodsia scopulina</i>	
4	1	0	1	2		<i>Rhacomitrium</i> sp.	
5	2	4	2	1		<i>Dicranum</i> spp. - <i>Cladonia</i> spp.	
6	2	4	2	2		<i>Stereocaulon</i> sp.	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Please give information about further communities on a separate sheet.

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	Deep till	Normal upland forest association on medium-textured soil. A(B)C F4
2	Deep stony till	Upland forest on more stony soils. A C F3
3	Rocks	On large rock masses with stable surface (Colluvial talus). A C I2
4	"	On <u>±</u> stabilized large boulders & c. at talus base. A C I2
5	"	Shaded rock slopes under cliffs, & stabilized talus. A C I2
6	"	Bottoms of hollows in talus slope. C
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

9. Landscape

1. General Landscape (give brief description) Edge and north slope of basalt plateau, with eroding cliff face and talus. Erosion of cliff face (& subterranean collapse?) causes vertical fissures to detach rock masses and pinnacles that slowly lean away and disintegrate.....

2. Relief Type

	Flat	Undulating (0)-200 m.	Hilly 200-1000 m.	Mountainous > 1000 m.	%
Sharply dissected			X		
Gently dissected					
Incised			X		
Skeletonised					
%					100%

3. Special landscape features (list)

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10. Coastline of IBP Area*

1. Protected bays and/or inlets Many Few None

2. Substratum. % of coast

Rock	Boulder Beach	Shingle Beach	Sand Beach	Shell Beach	Mud	Coral	Ice
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Physiography. % of coast

Cliffed	Sloping	Flat
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. Special Coastal Features (list)

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5. Tide. Maximum range (state units of measurement)

6. Total length of coastline :

Less than 1 km. 1-10 km. Above 10 km.

11. Freshwater within IBP Area*

1.

	Permanent	Intermittent
General		
Standing		
Running	X	

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps				
Ponds				
Lakes				

3. Running Water

	Permanent	Intermittent
Springs, cold	X	
Springs, hot		
Streams	X	
Rivers		

4. Special freshwater featuresLarge spring emerges from base of talus.....

12. Salt and Brackish Water within IBP Area* nil

Salt Lakes	<input type="checkbox"/>	Lagoon	<input type="checkbox"/>	<input type="checkbox"/>
Estuaries	<input type="checkbox"/>	Salt pools	<input type="checkbox"/>	<input type="checkbox"/>

13. Adjacent Water Bodies (not within IBP Area*)

1. Fresh Lake River Stream

2. Salt and Brackish nil

Estuary	Salt lake	Salt pool	Lagoon	Ocean		

14.

Outstanding Floral and Faunal Features

1. None

2. Fauna

	Species diversity	Abundance of individuals	Superabundance of individuals	Rare species	Threatened/Relict species	Spp. of biogeographical interest	Exceptional Associations	Breeding or Nesting Populations	Migrating Populations	Wintering Populations		
Mammalia	?											
Aves	?											
Reptilia	?											
Amphibia	?											
Pisces												
Insecta	?											

3. Names of main threatened, endemic, relict and rare species

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4. Flora

	Species diversity	Abundance of particular species	Rare species	Threatened/relict species	Spp. of biogeographical interest	Exceptional associations	Outstanding specimens				
Angiospermae :											
trees		X									
shrubs	X										
herbs	X										
grass	X										
Gymnospermae		X									
Pteridophyta		X									
Bryophyta											
Lichens and Algae											

5. Names of main threatened, endemic, relict and rare species

Woodsia scopulina

Saxifraga bronchialis

15. Exceptional Interest of IBP Area*

Main interest is in geological formation, but associated plant communities are also interesting. Progressive disintegration and weathering of rock faces produces a succession of habitats that are occupied by a succession of plant communities.

16.

Significant Human Impact

1. General : None in entire IBP Area*
 None in part of IBP Area* **X**
 Impact on entire IBP Area*

2. Particular

	Past impact	Present impact	Trend			
			Increasing	Decreasing	No change	No information
Cultivation						
Drainage						
Other soil disturbance						
Grazing	X	X		X?		
Selective flora disturbance						
Logging	X	X	X			
Plantation						
Hunting		X				
Removal of predators						
Pesticides						
Introductions — plants						
Introductions — animals						
Fire	X					
XXXXXX habitation	X					
Recreation and tourism						
Research						
Mining	X			X		

3. Additional details on each type of impact attached?

Yes No Forest surrounding rock formations has been subjected to logging and grazing, and former small mining. Cliffs and talus more or less undisturbed.

17. Conservation Status

	Protection			Utilisation			Conservation Management			Permitted Research		
	none	partial	total	none	controlled	uncontrolled	none	to alter status	to maintain status	experimental	observational	prohibited
Flora					X						X	
Fauna				X							X	
Non-living				X							X	

18. References

1. List major biological/geographical references for the IBP Area.

Sheet attached? Yes No

2. List main maps available for the IBP Area. Dept. Energy, Mines & Resources (Canada)

List attached? Yes No OYAMA -- 82 L/3 East 1/50,000

3. Aerial photographs for the IBP Area available?

For whole area X For part of area None

19. Other Relevant Information

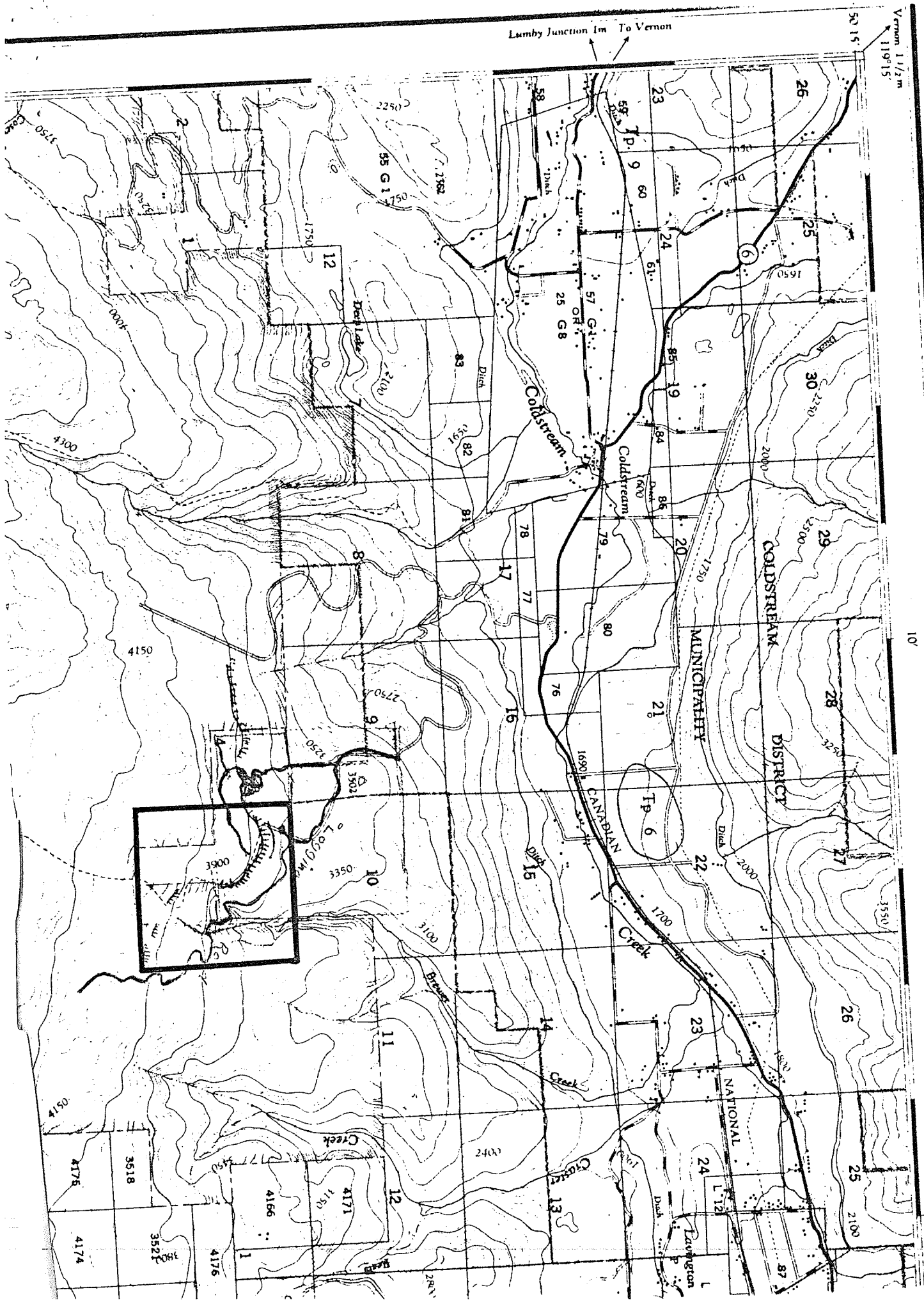
Signed T.C. Brayshaw
(Surveyor)

OTAWA - 82 2/3 East CANADA

1:50,000

NATIONAL TOPOGRAPHIC SYSTEM

05'



Vernon 1 1/2 m
119° 15'

Lumby Junction Im To Vernon

10'

*Bonneau Lake and
Denison Lake*

Report No. 104

APPLICATION FOR ECOLOGICAL RESERVE

1. Legal description of the area (or general "Metes and bounds" description)

2. Geographical location (relate to nearest settlement, mountain, river, etc.)
Bonneau Lake and Denison Lake, above Creighton Creek near Shuswap Falls.

3. Indicate the biogeoclimatic zone of which the reserve is representative.
The Engelmann spruce - subalpine fir zone (ESSFa)

4. Approximate total acreage.
2100 acres (850 ha)

5. Purpose of the reserve.
(a) Primary (state acreage)
"
(b) Others if any (state acreage)
"
(c) Buffer areas (state acreage)

6. Attach a map and indicate: (a) the perimeters and acreage of the areas detailed in 5 above, and (b) indicate the species and total timber volumes in these areas.

Signature T.C. Brayshaw