Report No. 52

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.)

   Blue River, along the road toward Murtle Lake Nature Conservancy Area

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

   The Interior Western Hemlock (IWH) Zone

4. Approximate total acreage.

   6400 acres

5. Purpose of the reserve.

   (a) Primary (state acreage)

   6400 acres

   (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 V. J. Krajina - R.E. Foreman

T.R.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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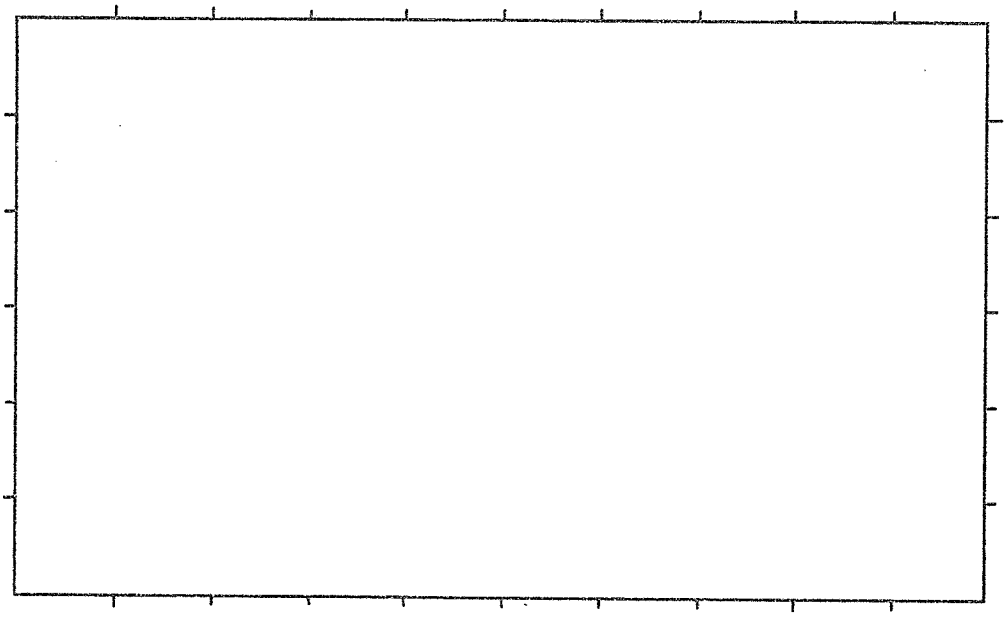
1.

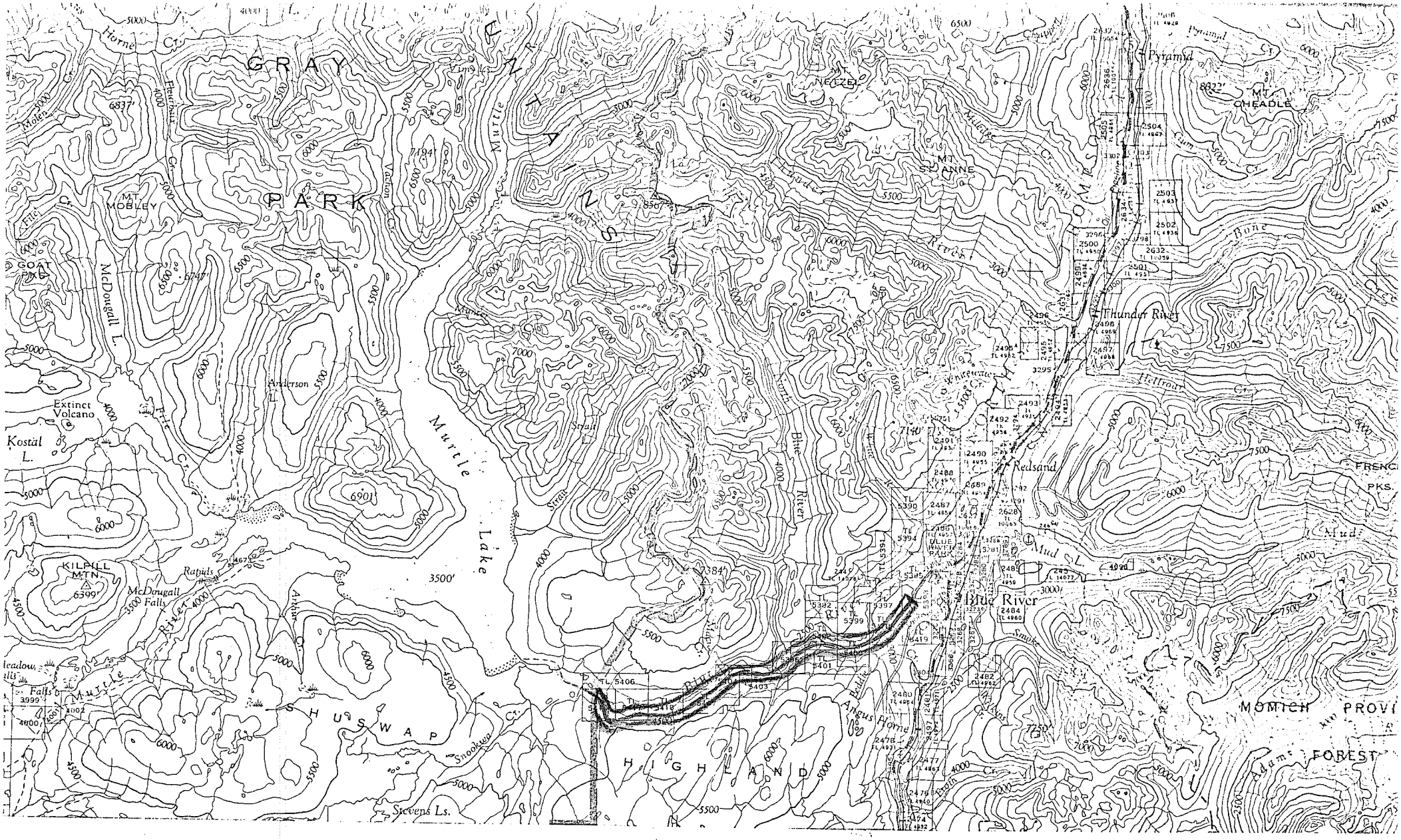
1. Name of surveyor V. J. Krajina - R. E. Foreman
2. Address of surveyor Department of Botany
   University of British Columbia
   Vancouver 8, B.C., Canada
3. Check Sheet completed (a) on site X (b) from records
4. Date Check Sheet completed August 17 - October 27, 1970

2.

1. Name of IBP Area Blue River, along the road toward Murtle Lake
2. Name of IBP Subdivision (or serial letter) IWH (up to ESSF), British Columbia
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.



CANOE RIVER

BRITISH COLUMBIA

Scale 1:250,000 or approximately 1 Inch to 4 Miles

5 0 5 10 15 20 Miles

Scale of Kilometres

0 5 10 15 20 25 30

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3. Location of IBP Area*

1. Latitude 52 ° 04 - 07' N Longitude 119 ° 18 - 33' W
2. Country Canada
   State or Province British Columbia North Thompson River area
   (State or Province ....)

4. Administration

National 1. Official category Crown Land, mostly with Timber Lease

2. Address of administration B.C. Department of Lands, Forests and Water Resources
   Parliament Buildings
   Victoria, B.C., 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) X

5. Characteristics of IBP Area*

1. Surface area (state units of measurement) 6400 acres (10 sq. mi.)
2. Altitude (state units of measurement) Maximum 4500'
   Minimum 2400'

6. Climate

Nearest climatological station :

1. Name Blue River, 2260'
2. Climatological station on IBP Area*? Yes ..... No X
3. If (2) not, distance from edge of IBP Area* (state units) 1 mi.
4. Direction from IBP Area* East
5. Additional data sheet attached? Yes ..... No X

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7. Vegetation and Soil

1 Vegetation

	Community Reference Number	Vegetation Code: Primary Structural Group	Class	Group	Formation	Sub-Formation	Plant communities (give usual name using full Latin names of a species where applicable)	Area (state units)
about 150 years	1	1	A	1	7	(a)	Pleurozio (schreberi) - Cladonio - Vaccinio (myrtilloidis) - Pino (contortae) - Tsugetum heterophyllae	
about 300 years	2	1	A	1	7	(a)	Pleurozio (schreberi) - Hylocomio (splendentis) - Pachystimo (myrsinitis) - Tsugetum heterophyllae	
	3	1	A	1	7	(a)	Tiarello (unifoliatae) - Gymnocarpio (dryopteridis) - Tsugo (heterophyllae) - Thujetum plicatae	
	4	1	A	1	7	(a)	Lysichito (americani) - Oplopanaco (horridi) - Picco (engelmannii) - Thujetum plicatae	
100-150 years	5	1	A	1	7	(a)	Pleurozio (schreberi) - Dicrano (polyseti) - Pachystimo (myrsinitis) - Pino (monticolae) - Pseudotsugo (*glaucae) - Tsugetum heterophyllae	
250-300 years old	6	1	A	1	7	(a)	Gymnocarpio (dryopteridis) - Oplopanaco (horridi) - Thujetum plicatae	
70 years old	7	1	A	1	7	(a)	Gymnocarpio (dryopteridis) - Tiarello (unifoliatae) - Pino (monticolae) - Pseudotsugetum *glaucae	
110 years old	8	1	A	1	7	(a)	Gymnocarpio (dryopteridis) - Disporo (oregani) - Tiarello (unifoliatae) - Pino (monticolae) - Tsugo (heterophyllae) - Thujetum plicatae	
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							

Please give information about further communities on a separate sheet

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7. (cont.) 2 **Soil**

Community Reference Number	Soil type	Other notes
1	AC I_2	Gravelly Regosols
2	ABC F_5	Podzol
3	AB(G)C F_5/P_2	Gleyed Dystric Brunisol
4	AGC P_2	Anmoor Black muck Gleysol
5	AC I_2	Sandy Regosols (gentle dunes ?)
6	AB(G)C F_5/P_2	Gleyed Brunisols
7	ABC F_5	Gray Wooded (Luvisols)
8	ABC F_5	Brown Wooded (Brunisols)
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

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8. Similar Communities in Country (or State)

Community Reference Number	Protected					Protected and Unprotected				
	Abundant	Infrequent	None known	Decreasing	Increasing	Abundant	Infrequent	None known	Decreasing	Increasing
1							X		X	
2							X		X	
3							X		X	
4							X		X	
5							X		X	
6							X		X	
7							X			X
8							X			X
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

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9. Landscape

1. General Landscape (give brief description) .....
Mountainous river valley (Blue River)
.....
.....
.....

2. Relief Type

	Flat	Undulating (0)-200 m.	Hilly 200-1000 m.	Mountainous > 1000 m.	%
Sharply dissected				60	60
Gently dissected				20	20
Incised				20	20
Skeletonised					
%				100	100%

3. Special landscape features (list) .....
A certain area of sandy soils which should not be deforested, otherwise they might
.....
be blown away by wind.
.....

10. Coastline of IBP Area*

1. Protected bays and/or inlets — Many [ ] Few [ ] None [X]

2. Substratum. % of coast

Rock	Boulder Beach	Shingle Beach	Sand Beach	Shell Beach	Mud	Coral	Ice

3. Physiography. % of coast

Cliffed	Sloping	Flat

4. Special Coastal Features (list) .....
.....
.....

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

6. Total length of coastline :

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

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11. Freshwater within IBP Area*

1.

	Permanent	Intermittent
General		
Standing		
Running	X	

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps	X		X	
Ponds				
Lakes				

3. Running Water

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

4. Special freshwater features .....

.....

12. Salt and Brackish Water within IBP Area* nil

Salt Lakes		Lagoon		.....	
Estuaries		Salt pools		.....	

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

1. Fresh [X] Lake [X] River [X] Stream [ ]

2. Salt and Brackish

Estuary	Salt lake	Salt pool	Lagoon	Ocean		

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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						X		X		X		
Aves						X		X	X	X		
Reptilia												
Amphibia								X		X		
Pisces												
Insecta						X		X		X		

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

This area is successionally most interesting. Besides a few young Douglas-fir stands (70 - 100 years old), forest reached their climax stages (mainly with Tsuga heterophylla affected strongly by Echinodontium tinctorium) which might be highly questionable for harvesting. Nevertheless such old stands are not easily reachable for either research or didactic purposes. Therefore, they should be preserved.

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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			X						
shrubs		X			X						
herbs		X			X						
grass		X			X						
Gymnospermae		X			X		X				
Pteridophyta		X			X						
Bryophyta		X			X						
Lichens and Algae		X			X						

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

.....

.....

.....

15. Exceptional Interest of IBP Area*

Because the forest stands are along the road, which will serve for reaching Wells Gray Provincial Park (Murtle Lake area), it would be highly recommendable to keep such stands alive along the road here. For teaching young foresters there are most excellent forest stands.

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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					X		
Drainage			X				along the road
Other soil disturbance			X				
Grazing					X		
Selective flora disturbance					X		
Logging					X		
Plantation					X		
Hunting					?		
Removal of predators					?		
Pesticides					X		
Introductions — plants			X				
Introductions — animals					X		
Fire	X						in a small area
Permanent habitation					X		
Recreation and tourism			X				
Research					X		

3. Additional details on each type of impact attached?

Yes ..... No ..X..

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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	X	X	X	in different parts of the area
Fauna	X								X		X		
Non-living	X								X		X		

18. **References**

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

   Sheet attached? Yes ..X.. No ..... Photographs by V.J. Krajina

2. List main maps available for the IBP Area.

   List attached? Yes ..... No .....

3. Aerial photographs for the IBP Area available?

   For whole area ..... For part of area ..... None .....

19. **Other Relevant Information**

Signed ....

V.J. Krajina (Surveyor) R.E. Foreman