83-#142-#11125

GEOLOGICAL, GEOPHYSICAL AND DRILLING REPORT ON THE BET MINERAL CLAIMS KAMLOOPS MINING DIVISION FOR COMINCO LIMITED OPERATED BY PREUSSAG CANADA LIMITED

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,125

part 2 of 2

NTS 82M/5W
51°20'N, 119°55'W

F. Daley
Vancouver, B.C.
February 1983

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SUMMARY

During the period May 1 - October 22, 1982 Preussag Canada Limited conducted a mapping, geochemical, geophysical and drilling program on Cominco's BET 1-5 mineral claims in the Birk Creek area, 25km northeast of Barriere, B.C. The purpose of the program was to test for volcanogenic massive sulphides within acid volcanics of the Eagle Bay Formation. No significant economic mineralization was found.

INTRODUCTION

a. Location and Access

The BET claim group, comprised of the BET 1, 2, 3 and 5 claims, is within NTS 82M/5W at approximately 51°20'N latitude and 119°55'W latitude. The claims are accessible by road, 63km north of Kamloops on Highway 5 to the town of Barriere and then 28km east on paved and gravel roads along the North Barriere River. The claims are located between Birk Creek and Harper Creek. Logging roads and trails provide access to much of the claim group (see Fig. 1).

Elevations range from 650-1500m across gentle to moderate slopes with major drainages providing locally steep relief. Several stands of douglas fir and cedar on the property have been commercially logged. Birch, hemlock and spruce are also present. Temperate climatic conditions prevail with moderate to heavy snowfalls from December to March and seasonal rainfall throughout the remainder of the year.

b. History

Most, if not all showings in the area were discovered by prospectors before 1930 and were worked by hand tunnelling and short adits. There is no record of any ore shipments or production from the small showings. In 1951-52 Kennco Exploration did 16 line miles of ground EM in the Birk Creek area. Seven conductive zones were outlined and tested by seven drill holes. Drilling intersected a thick sequence of sparsely mineralized quartz sericite schists with interbedded graphitic argillites (phyllites) and carbonate.

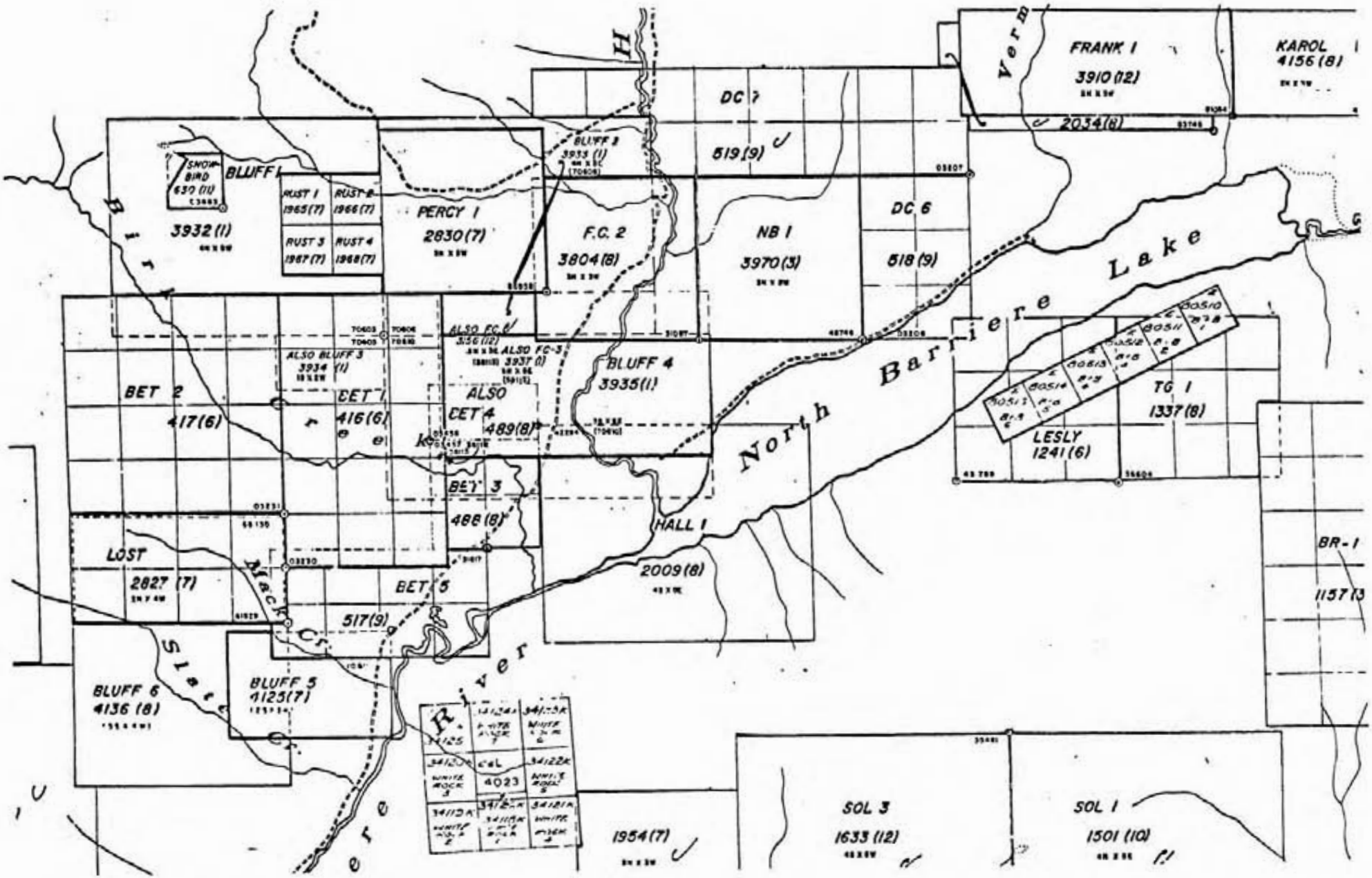

FIG. 1 LOCATION OF THE BET CLAIM GROUP NTS 82M/5W

FD

In 1971, Ducanex Resources collected 750 soil samples north of Birk Creek. One large coincident Cu-Zn anomaly (2000 ppm Cu, 6500 ppm Zn) and several broad anomalies were outlined to the east of the present BET claim group. Ten line miles of IP were run. Seven drill holes (2344 ft total) tested coincident geochem-geophysical anomalies but failed to intersect economic mineralization.

Since 1976 Cominco has been active in the Birk Creek area. In 1976 they conducted a soil and rock geochem program. No significant geochem anomalies were delineated, the two best grab samples (rock) assayed 4.2% Zn, 2% Pb, .83 oz/t Ag; and 3.1% Cu, .4 oz/t Ag. In 1978 Cominco ran 8.2 line kilometers of VLF-EM and IP surveys. A broad zone of moderately anomalous chargeability response was outlined and indicated the approximate location of a sulphide bearing horizon. A strong VLF conductor was also outlined. These anomalies were tested with 6 drill holes (deepest 200m, avg. 120m). These holes failed to locate significant base metal mineralization, the best assay was .3% Cu, 1.4% Zn, .4 oz/t Ag over 1m.

c. Present Program

Preussag Canada Limited was the operator for the 1982 program. F. Daley and K. Baldry of P.C.L. supervised the work intermittently between May 1 and October 20, 1982, with various stages being contracted to Hi-Tec Management, G. White Geophysical Services and Frontier Drilling.

The 1982 program included mapping 7.4km of new logging roads, 16.8km of grid construction, 12.5 line km of Max-Min EM and 1 B.Q. core diamond drill hole totalling 120m. The purpose of the program was to evaluate previously known volcanogenic massive sulphide showings within acidic metavolcanics of the Eagle Bay Formation.

RESULTS AND INTERPRETATION

a. Geology

The BET claim group is underlain by metavolcanics and metasediments of the Mississippian Eagle Bay Formation. The metavolcanics are dominated by a thick section of rhyolite tuffs,

now preserved as buff to yellow weathering quartz eye sericite schists in the Birk Creek area. The acid volcanics are overlain to the south by black argillite and interfinger with and are underlain to the north by dacitic and andesitic tuffs (quartz sericite and quartz chlorite schists) and minor sediments (graphitic black argillites and limestone). See Fig. 2. The setting is interpreted as being on the flanks of an acid volcanic pile with a possible proximal setting to the south of Birk Creek.

Regionally, the stratigraphy has a dominant northwest trending metamorphic foliation with a 15°-30° southwest dip. Compositional layering is parallel to sub-parallel with the strong foliation. Locally the stratigraphy may strike almost east-west and is accompanied by a steepening dip. No large scale folding is evident on the property. A locally developed north trending steeply dipping cleavage indicates an additional phase of deformation to the formation of the main bedding plane cleavage.

Economic interest is centered on the major quartz eye sericite schist horizon in the Birk Creek area. Quartz eyes vary from 2-15% and up to 7mm in size. The matrix is mainly quartz, feldspar and sericite with relict feldspar phenocrysts altered to carbonate. Overall pyrite content ranges from 2-10% and occurs as disseminations or fine to medium grained stringers parallel to foliation.

There are several massive sulphide showings within the acid metavolcanics, the CC, Rainbow, Lynx and Copper Cliff. Mineralization consists of lenses of massive medium grained pyrite with minor chalcopyrite, sphalerite and galena. The lenses range in thickness from 5cm to 2-3m. Generally base metal values are less than 1% Cu, Pb or Zn.

Several massive pyrite boulders were found in float south of Birk Creek along the strike of the quartz sericite schist - argillite contact (see Fig. 2). Again, base metal values were very low (see Appendix I).

There is evidence of an erosional hiatus between the quartz sericite schist and overlying argillites. Although outcrop is scarce, several pieces of epiclastic material were found along the contact. Clasts of chert, quartz, feldspar and sericite up to 1cm in diameter occur in a chloritic argillaceous matrix.

b. Max-Min II EM Survey

In August, Hi-Tec Management of Vancouver established approximately 16.8 line km of grid on the BET claims. A Max-Min II EM survey

contracted by G. White was completed by the end of August on 12.5 line km of the grid. E. Trent Pezzot, geophysicist, supervised the program.

The survey consisted of approximately 12.5 line kilometers with readings taken at 25 meter station intervals. The equipment was used in the maximum coupling mode with a transmitter-receiver separation of 150 meters. Both the 444 hz and 1777 hz frequencies were monitored and recorded. The survey lines were secant chained and the station to station slope values made available to the geophysical survey crew to insure accurate tilt level control across the grids. All field data was corrected for the appropriate coil spacing variations before being presented on the accompanying maps, Figures 3 and 4.

Six conductive trends labelled 1 through 6 are delineated on the accompanying maps, see Figures 3 and 4.

Conductor #1 extends from line 41+00N to line 36+00N and is considered open to the south. Type curve analysis is difficult because the eastern flank of the anomaly was not completely surveyed however the zone appears to dip approximately 30° to grid east. Conductive overburden is present in the area, however it appears to be relatively thin since the major conductor is interpreted as being less than 15 meters deep on lines 38+50N and 36+00N. Drill hole D-4, located immediately south of line 41+00N and directly on the conductive trend, intersected a fault zone with chloritic schists at a depth of some 90 feet. If this feature is the cause of the anomalous response it can be expected to come near the surface to the south and also exhibit increased conductivity and apparent width in this direction.

Conductor #2 appears to be an offshoot of Conductor #1. It is the response from a relatively poor conductor and observed only in the higher frequency data. No explanation for this weak response is given at this time.

Conductor #3 occurs on the west end of line 46+00N. The anomaly appears to be more like the reflection of a geological contact than of a dyke-like conductive unit.

Conductor #4 occurs on the west ends of lines 41+00N through 36+00N with a localized, strong response occuring on line 38+50N. A number of drill holes have been located around the strong response noted on line 38+50N and a review of the drill core or logs might explain the causitive feature. Conductors #3 and #4 are quite possibly reflecting the same geological contact.

Conductor #5 extends from line 34+00N to 30+00N and is considered closed at both ends. The causitive feature is a zone approximately 125 meters wide which dips some 30° to grid west and comes to within 50 meters of the surface on line 34+00N.

Conductor #6 extends from line 36+00N to 42+00N and is considered open to the north. Conductor #6 may be a fault displaced continuation of Conductor #5 however it appears to be deeper and of poorer conductivity. The zone broadens to the north and the edges become quite indistinct by line 42+00N.

Summary

Four weak anomalies were recorded on the BET claim group, north of Birk Creek, the best of which corresponds to a newly exposed conductive graphitic, argillaceous shear zone. The other trends showed no geochemical response from previous surveys. South of Birk Creek, 2 weak sub-parallel anomalous trends were recorded along the upper quartz sericite schist-argillite contact.

c. Geochemical Survey

Ninety-two soil samples were collected across the upper quartz sericite schist-argillite contact south of Birk Creek where massive pyrite float had been found for 2km along strike, see Figure 2.

Samples were collected from the 'B' soil horizon wherever possible and stored in standard Kraft paper sample bags. All samples were analyzed for Cu, Pb, Zn and Ag by Chemex Labs of Vancouver. Results are plotted in Figure 5.

No anomalous trends were delineated as all samples were within background levels.

d. Drilling

In October, Frontier Drilling Limited of Winfield, B.C. was contracted to drill one hole of 120m on the BET 1 mineral claim. The vertical hole was collared with respect to Cominco's 1978 geophysical grid and is located at L. 7+25W, 3+50N. See Figure 2. The purpose of the hole was to test for any down dip extension of a weakly mineralized, heavily chloritized zone intersected in DDH

BET 6. The hole cut a monotonous sequence of dacitic feldspar crystal tuffs and dacites. Very minor sphalerite and galena was noted in 1-3mm stringers sub-parallel to foliation but nothing of economic grade or thickness, see Appendix II. The core is stored at the drill site.

APPENDIX I

Sample	Cu %	Pb %	Zn %	Ag %	Au %
88762	0.44	0.01	0.05	0.31	-
88766	0.28	0.09	0.03	0.34	0.003
88767	0.01	0.32	0.07	0.06	<0.003
88768	0.46	0.02	0.01	0.02	<0.003
88769	-	-	-	0.01	<0.003
88770	0.23	-	0.10	0.04	0.003
88771	-	0.40	1.51	0.32	-
88796	<0.01	0.01	0.10	<0.003	-
88797	<0.01	0.01	0.08	<0.003	-
88798	<0.01	0.01	0.10	<0.003	-
52501	1.18	0.01	0.01	0.10	0.005

F.D

APPENDIX II

Soil Geochemistry Results, Bet Mineral Claims

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : PREUSSAG CANADA LIMITED

1322-510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8

ATTN: F. DALEY

CERT. # : A8213359-001-A
INVOICE # : I8213359
DATE : 16-SEP-82
P.O. # : NONE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm		
B.L. 22+00N	201	40	18	162	0.3	--	--
B.L. 22+50N	201	69	25	150	0.2	--	--
B.L. 23+00N	201	41	17	137	0.2	--	--
B.L. 23+50N	201	36	16	198	0.2	--	--
B.L. 24+00N	201	22	12	195	0.3	--	--
B.L. 24+50N	201	10	10	210	0.1	--	--
B.L. 25+00N	201	30	17	114	0.3	--	--
B.L. 25+50N	201	33	16	164	0.3	--	--
B.L. 26+00N	201	25	17	169	0.6	--	--
B.L. 26+50N	201	20	10	101	0.1	--	--
B.L. 27+00N	201	27	17	101	0.2	--	--
B.L. 27+50N	201	27	17	92	0.2	--	--
B.L. 28+00N	201	26	8	148	0.4	--	--
B.L. 28+50N	201	15	10	235	0.1	--	--
B.L. 29+00N	201	54	21	147	0.3	--	--
B.L. 29+50N	201	16	12	200	0.3	--	--
B.L. 30+00N	201	23	12	199	0.3	--	--
B.L. 30+50N	201	49	15	76	0.1	--	--
B.L. 31+00N	201	11	12	158	0.2	--	--
B.L. 31+50N	201	17	10	128	0.2	--	--
B.L. 32+00N	201	38	133	117	0.2	--	--
B.L. 32+50N	201	38	16	101	0.6	--	--
B.L. 33+00N	201	39	10	52	0.2	--	--
B.L. 33+50N	201	34	15	102	0.8	--	--
B.L. 34+00N	201	34	12	102	0.6	--	--
B.L. 34+50N	201	28	9	84	0.8	--	--
B.L. 35+00N	201	5	5	96	1.0	--	--
B.L. 35+50N	201	13	10	150	1.0	--	--
B.L. 36+00N	201	18	8	74	0.7	--	--
B.L. 36+50N	201	20	8	115	0.5	--	--
B.L. 37+00N	201	9	8	98	1.2	--	--
B.L. 37+50N	201	7	17	126	1.2	--	--
B.L. 38+00N	201	22	32	141	1.7	--	--
L22N 126+50W	201	40	23	215	0.5	--	--
L22N 127+00W	201	70	29	265	0.2	--	--
L22N 127+50W	201	55	24	124	0.3	--	--
L22N 128+00W	201	19	13	395	0.7	--	--
L22N 128+50W	201	17	14	345	0.4	--	--
L22N 129+00W	201	30	20	290	0.5	--	--
L22N 129+50W	201	14	17	265	1.0	--	--

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TO : PREUSSAG CANADA LIMITED

1322-510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8

ATTN: F. DALEY

CERT. # : A8213359-002-A
INVOICE # : I8213359
DATE : 16-SEP-82
P.O. # : NONE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm		
L22N 130+00W	201	20	41	310	0.8	--	--
L22N 130+50W	201	19	18	375	0.7	--	--
L22N 131+00W	201	21	18	167	0.5	--	--
L22N 131+50W	201	49	26	150	0.2	--	--
L22N 132+00W	201	62	26	135	0.7	--	--
L24N 126+50W	201	58	19	107	0.1	--	--
L24N 127+00W	201	22	13	123	0.1	--	--
L24N 127+50W	201	31	14	205	0.2	--	--
L24N 128+00W	201	47	33	210	0.1	--	--
L24N 128+50W	201	33	18	133	0.2	--	--
L24N 129+00W	201	33	18	220	0.1	--	--
L24N 129+50W	201	57	22	135	0.1	--	--
L24N 130+00W	201	34	21	196	0.2	--	--
L24N 130+50W	201	45	22	143	0.2	--	--
L24N 131+00W	201	54	21	120	0.2	--	--
L26N 126+50W	201	29	14	104	0.1	--	--
L26N 127+00W	201	71	23	105	0.1	--	--
L26N 127+50W	201	50	20	76	0.1	--	--
L26N 128+00W	201	46	16	176	0.1	--	--
L26N 128+50W	201	22	23	205	0.1	--	--
L26N 129+00W	201	46	24	158	0.2	--	--
L26N 129+50W	201	24	13	145	0.1	--	--
L26N 130+00W	201	18	13	146	0.1	--	--
L28N 126+50W	201	18	22	177	0.2	--	--
L28N 127+00W	201	65	33	114	0.2	--	--
L28N 127+50W	201	56	28	99	0.1	--	--
L28N 128+00W	201	25	44	210	0.1	--	--
L28N 128+50W	201	14	16	215	0.2	--	--
L28N 129+00W	201	20	12	89	0.1	--	--
L30N 126+50W	201	17	13	146	0.1	--	--
L30N 127+00W	201	7	7	98	0.2	--	--
L30N 127+50W	201	23	7	79	0.1	--	--
L30N 128+00W	201	5	4	108	0.1	--	--
L30N 128+50W	201	9	7	200	0.3	--	--
L30N 129+00W	201	45	17	139	0.3	--	--
L32N 126+50W	201	16	9	158	0.7	--	--
L32N 127+00W	201	18	7	97	0.1	--	--
L32N 127+50W	201	26	10	104	0.2	--	--
L32N 128+00W	201	21	11	240	0.2	--	--
L32N 128+50W	201	9	8	171	0.4	--	--

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CERTIFICATE OF ANALYSIS

TO : PREUSSAG CANADA LIMITED

1322-510 WEST HASTINGS STREET
VANCOUVER, B.C.
V6B 1L8

ATTN: F. DALEY

CERT. # : A8213359-003-A
INVOICE # : 18213359
DATE : 16-SEP-82
P.O. # : NONE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm		
L32N 129+00W	201	21	8	160	0.1	--	--
L34N 126+50W	201	17	9	106	0.2	--	--
L34N 127+00W	201	12	8	127	0.8	--	--
L34N 127+50W	201	17	13	84	0.6	--	--
L34N 128+00W	201	1	4	65	0.6	--	--
L34N 128+50W	201	6	5	67	0.4	--	--
L34N 129+00W	201	8	10	129	0.2	--	--
L36N 126+50W	201	5	8	101	0.4	--	--
L36N 127+00W	201	26	5	81	0.1	--	--
L36N 128+00W	201	22	11	101	0.2	--	--
L36N 128+50W	201	28	7	91	0.1	--	--
L36N 129+00W	201	34	12	92	0.1	--	--
L36N 129+50W	201	28	20	97	0.3	--	--
L36N 130+00W	201	36	13	112	0.2	--	--
L38N 126+50W	201	9	8	131	1.2	--	--
L38N 127+00W	201	31	15	114	0.4	--	--
L38N 127+50W	201	22	12	105	0.1	--	--
L38N 128+00W	201	24	9	121	0.8	--	--
L38N 128+50W	201	19	10	124	0.6	--	--
L38N 129+00W	201	21	15	110	0.5	--	--
L38N 129+50W	201	24	11	107	0.3	--	--
L38N 130+00W	201	14	9	101	0.7	--	--

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APPENDIX III

Drill Logs DDH BT82-1

DIAMOND DRILL RECORD

PROPERTY BET 1 HOLE No. BT82-1

DIP TEST		
	Angle	
Footage	Reading	Corrected
108.5	82°	

Cominco's Geophysical

Hole No. BT82-1 Sheet No. 1 Lat. Grid L7+50W, 3+35N Total Depth 108.5m

Section Dep. Vert. Logged By F. Daley

Date Begun Oct. 15/82 Bearing Claim BET 1

Date Finished Oct. 16/82 Elev. Collar 780m Core Size BQ

DEPTH (m)	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0-6.5	Overborden						
6.5-8.9	Andesitic feldspar crystal tuff. Medium greyish						
	green with white mottling from .5mm-1.5mm						
	feldspar crystals. Fine grained andesitic (now						
	chloritic and sericitic) matrix.						
	Angle of foliation to core axis 90°.						
	Minor greyish quartz grains, but not well						
	developed 'quartz eye' texture.						
8.9-33.5	Andesitic to dacitic quartz eye crystal tuff.						
	(Now silvery quartz eye sericite schist).						
	Various shades of green and grey reflect varying						
	chlorite-sericite components. Distinguishing						
	feature from above tuff is presence of 3-7%						
	quartz eyes from <1-3mm diameter.						
	Sericite gouge at 24.5-24.7m. Broken core						
	from 25.6-25.9m.						
	Foliation to core axis 80-90°.						
	At 9.2m, 2cm band of medium grained pyrite						
	parallel to foliation. No economic sulphides.						

DIAMOND DRILL RECORD

PROPERTY BET 1 HOLE No. BT82-1

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. ... Sheet No. 2 Lat. ... Total Depth ...
Section ... Dep. ... Logged By ...
Date Begun ... Bearing ... Claim ...
Date Finished ... Elev. Collar ... Core Size ...

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
	From 9.6-9.66m, band of medium grained pyrite, no economic sulphides. At 13.2m, 8cm barren white quartz vein. At 15.7m, 5cm barren white quartz vein. Quartz stringers → 1cm at 13.7m, 14.5m, 23.3m (with minor fine grained galena along margins) and 29m.						
33.5-35.4	Same 'quartz eye' crystal tuff as above but little or no chlorite, mainly sericite. Noticeably more grey than before. Minor pyrite stringers both parallel to and cross-cutting foliation. Foliation to core axis 85°.						
35.4-75	Mainly greyish green andesitic 'quartz eye' crystal tuff, same as above. Minor sections of white mottled, feldspar crystal tuff with only minor quartz eyes. Also minor sections of grey, sericite ≫ chlorite matrix. No economic sulphides.						

DIAMOND DRILL RECORD

PROPERTY BET 1 HOLE No. BT82-1

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. ... Sheet No. 3 ... Lat. ... Total Depth ...
Section ... Dep ... Logged By ...
Date Begun ... Bearing ... Claim ...
Date Finished ... Elev. Collar ... Core Size ...

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
	Foliation to core axis 80-90°. Quartz eyes						
	vary from 1-7% and from 2-5mm in size. 15cm						
	barren quartz vein at 70m.						
75-119	Mainly andesitic to dacitic feldspar crystal						
	tuff. Noticeably greener, more chloritic than						
	upper 75m. Feldspar crystals vary from 1-10%						
	and from 1-3mm in size; quartz eyes still						
	present, 1-3% but dominant feature is feldspar						
	'mottling' compared to overlying tuff.						
	Gradational upper and lower contacts.						
	Foliation to core axis 80-90°.						
	Pyrite stringers with minor sphalerite, galena,						
	chalcopyrite(?) noted at 87.95m, 97.31m,						
	93.65m, 99.3m and 106.5m.						
	Pyrite generally < 3%. 3-5cm bands of heavily						
	disseminated pyrite (15-30%) at 108.9m, 111.4m,						
	114.5m and 115m.						
	Only minor quartz veining.						

DIAMOND DRILL RECORD

PROPERTY BET 1 HOLE No. BT82-1

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. ..... Sheet No. 4 Lat. ..... Total Depth .....

Section ..... Dep. ..... Logged By .....

Date Begun ..... Bearing ..... Claim .....

Date Finished ..... Elev. Collar ..... Core Size .....

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
119-120.7	Grey dacite tuff. Less feldspar, more siliceous						
	than overlying tuff. Gradational contact.						
	Minor pyrite stringers parallel to foliation.						
	Foliation to core axis 80-90°.						
	No economic sulphides.						
120.7	End of hole.						

APPENDIX IV

ITEMIZED COST STATEMENT

1.	Wages	
	F. Daley May 1-Oct. 20, 1982 28 days @ $250/day	$ 7,000.00
	K. Baldry May 1-Oct. 20, 1982 28 days @ $125/day	3,500.00
2.	Food	
	Groceries	205.94
	Meals	287.78
3.	Field Supplies (flagging, bags, lumber, freight, core boxes, etc.)	1,399.96
4.	Accommodation	
	Monte Carlo Motel, Barriere	887.22
5.	Transportation (Vehicular)	1,617.07
6.	Linecutting	
	Hi-Tec Management, Vancouver	
	16.8 line km @ $203/km	3,410.40
7.	Geophysical Survey	
	G. White Geophysical Consulting Ltd., Vancouver	
	12.5 line km Max-Min II EM @ $387/km	4,837.50
8.	Drilling	
	Frontier Drilling, Winfield	
	120m @ $59.26/m	7,111.20
9.	Assaying	
	Chemex Labs, Vancouver	
	92 soil samples for Cu, Pb, Zn, Ag @ $5.00/sample	460.00
	11 rock samples for Cu, Pb, Zn, Ag, Au @ $27.25/ sample	299.75
10.	Report Preparation	
	F. Daley 2 days @ $250/day	500.00
	Drafting	123.00
	TOTAL	$31,639.82

APPENDIX V

AUTHOR'S QUALIFICATIONS

I, Fred S. Daley, hereby declare that;

i. I obtained a B.Sc. degree in Geological Sciences from the University of British Columbia in 1975,

ii. I have been continuously employed in mineral exploration since that time,

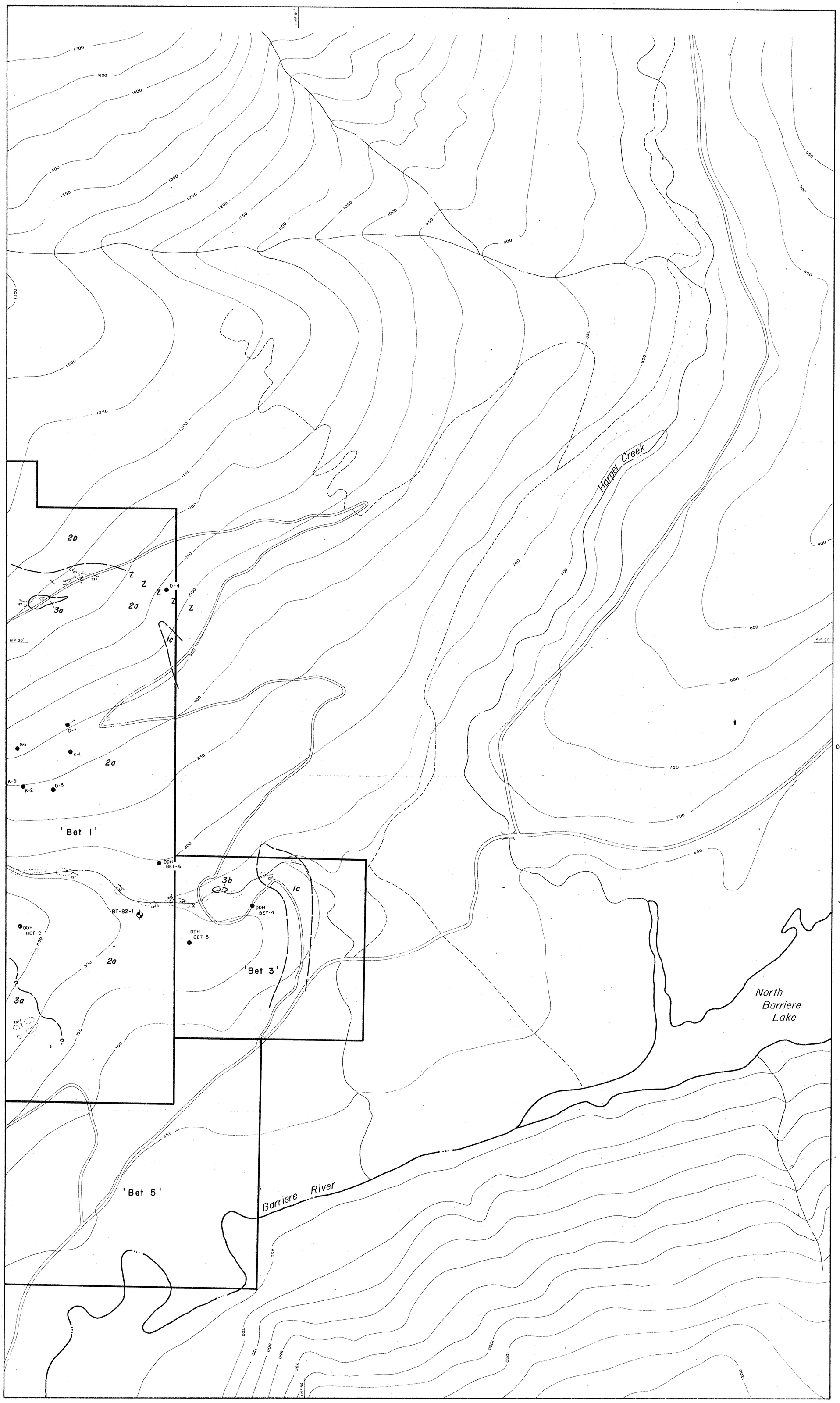
iii. I have been employed as an Exploration Geologist with Preussag Canada Limited since January 1981,

iv. I supervised and personally participated in the surveys described in this report,

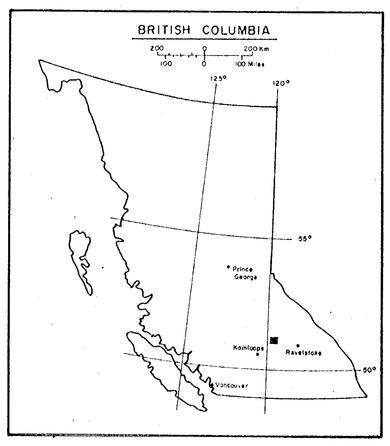
v. I am a member of the C.I.M.M. and the Cordilleran Section of the G.A.C.

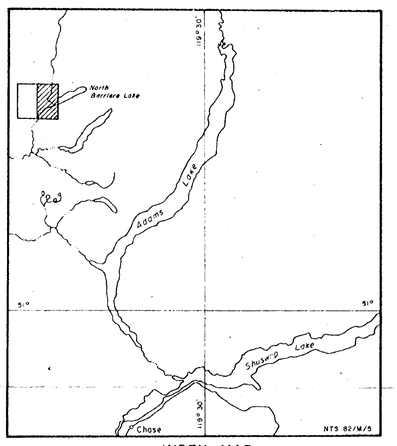
STATEMENT OF QUALIFICATIONS

NAME:	PEZZOT, E. Trent
PROFESSION:	Geophysicist - Geologist
EDUCATION:	University of British Columbia - B.Sc. - Honors Geophysics and Geology
PROFESSIONAL ASSOCIATIONS:	Society of Exploration Geophysicists
EXPERIENCE:	Three years undergraduate work in geology - Geological Survey of Canada, consultants.
	Three years Petroleum Geophysicist, Senior Grade, Amoco Canada Petroleum Co. Ltd.
	Two years consulting geophysicist, Consulting geologist - B.C., Alberta, Saskatchewan, N.W.T., Yukon, western U.S.A.
	Three years geophysicist with Glen E. White Geophysical Consulting & Services Ltd.



Contour Intervals of 50 metres





INDEX MAP

10 0 10 Km
5 0 5 Miles

LEGEND

- 3a — Rhyolite > Dacite; buff to yellow weathering pyritic quartz eye sericite schist (rhyolite) to silver grey and brown weathering sericite schist (dacite)
- 3b — Massive sulphide horizon, fine to medium grained massive pyrite with minor Cu, Pb, Zn
- DEVONIAN-MISSISS. Eagle Bay Form. — 2a — Dacite > Rhyolite, mainly buff to grey weathering sericite and quartz sericite schist, minor quartz eyes. Minor yellow, pyritic quartz eye sericite schist. Also minor quartz chlorite schist (andesite?)
- 2b — Dacite; quartz sericite schist, lapilli tuffs, interbedded with argillite, minor limestone
- 1c — Andesitic crystal tuff (?) with quartz phenocrysts
- Outcrop
- Massive sulphide outcrop (pyrite +/or pyrrhotite)
- Foliation
- Massive sulphide float (pyrite +/or pyrrhotite)
- Z Z Z — Inferred fault
- BT-82-1 — Preussag 1982 Drill Hole
- BET-5 — Cominco 1978 Drill Hole

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,125

Part 2 of 2

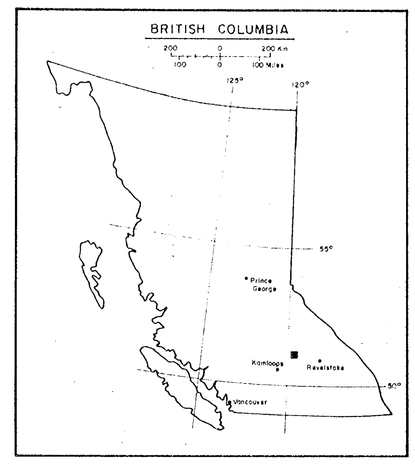
PREUSSAG

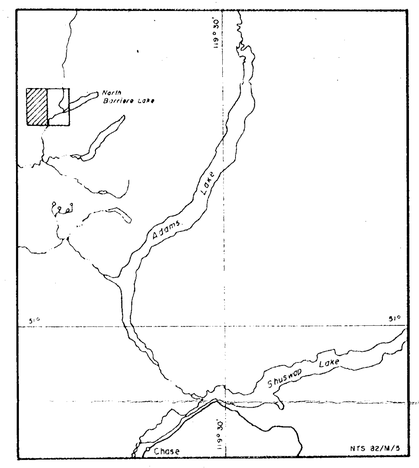
BARRIERE PROJECT-B.C.

Geology East Half

FIG. 2a

500 0 500 1000 1500 Feet
100 0 100 200 300 400 Metres





INDEX MAP

10 0 10Km
5 0 5 Miles

LEGEND

- 4 — Argillite; black, varies from argillite to phyllite. Variably graphitic, pyrite from 0-2% as medium to coarse cubic disseminations. Locally cut by white quartz veins.
- 3a — Rhyolite > Dacite; buff to yellow weathering pyritic quartz eye sericite schist (rhyolite) to silver grey and brown weathering sericite schist (dacite)

DEVONIAN-MISSISS. Eagle Bay Form.

- 2a — Dacite > Rhyolite; mainly buff to grey weathering sericite and quartz-sericite schist, minor quartz eyes. Minor yellow, pyritic quartz eye sericite schist. Also minor quartz-chlorite schist (andesite?)
- 2b — Dacite; quartz sericite schist, lapilli tuffs, interbedded with argillite, minor limestone
- 2c — quartz porphyry dacite
- Outcrop
- Foliation
- Massive sulphide float (pyrite +/or pyrrhotite)
- Inferred fault
- K-6 — Kennco 1952 Drill Hole
- BET-3 — Cominco 1978 Drill Hole

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PREUSSAG

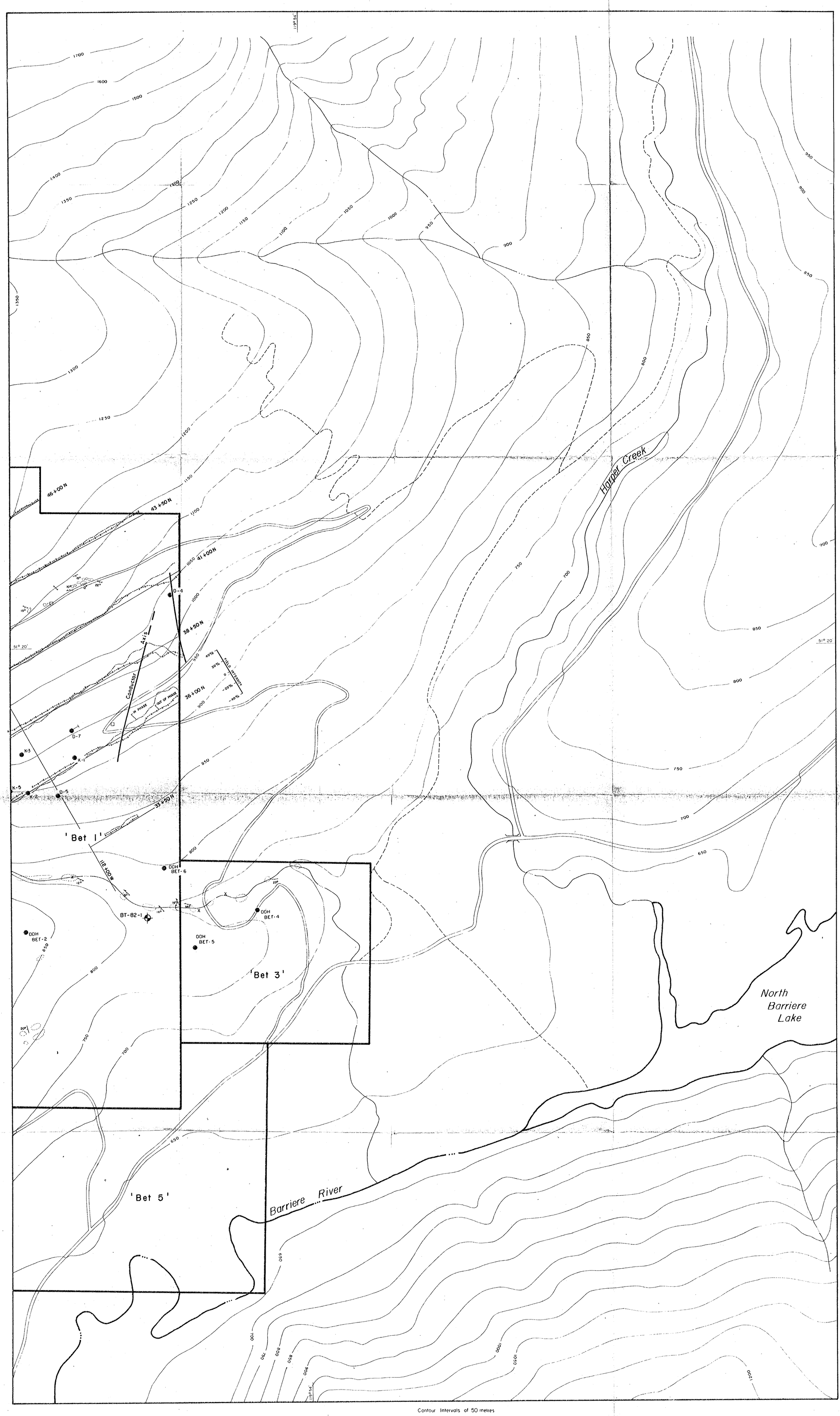
BARRIERE PROJECT-B.C.

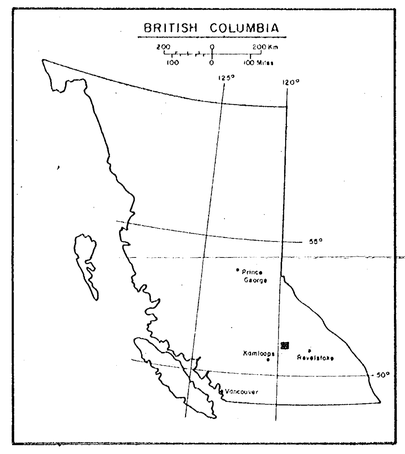
Geology West Half

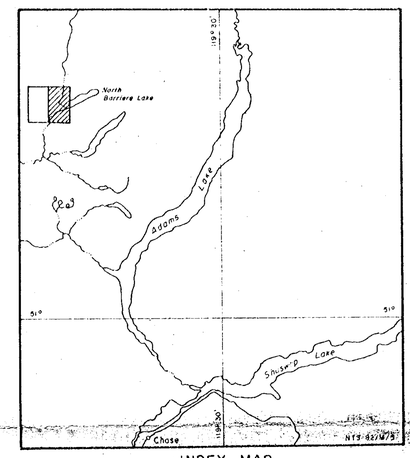
FIG. 2b

Contour Intervals of 50 metres

500 0 500 1000 1500 Feet
100 0 100 200 300 400 Metres







INDEX MAP

10 5 0 10 Km
5 0 5 Miles

LEGEND

- Outcrop
- Massive sulphide outcrop (pyrite +/or pyrrhotite)
- Massive sulphide float (pyrite +/or pyrrhotite)
- Foliation
- BET-5 — Comiaco 1978 Drill Hole
- D-4 — Ducanex 1971 Drill Hole
- K-2 — Kennco 1952 Drill Hole
- BT-82-1 — Preussag 1982 Drill Hole

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BARRIERE PROJECT - B.C.

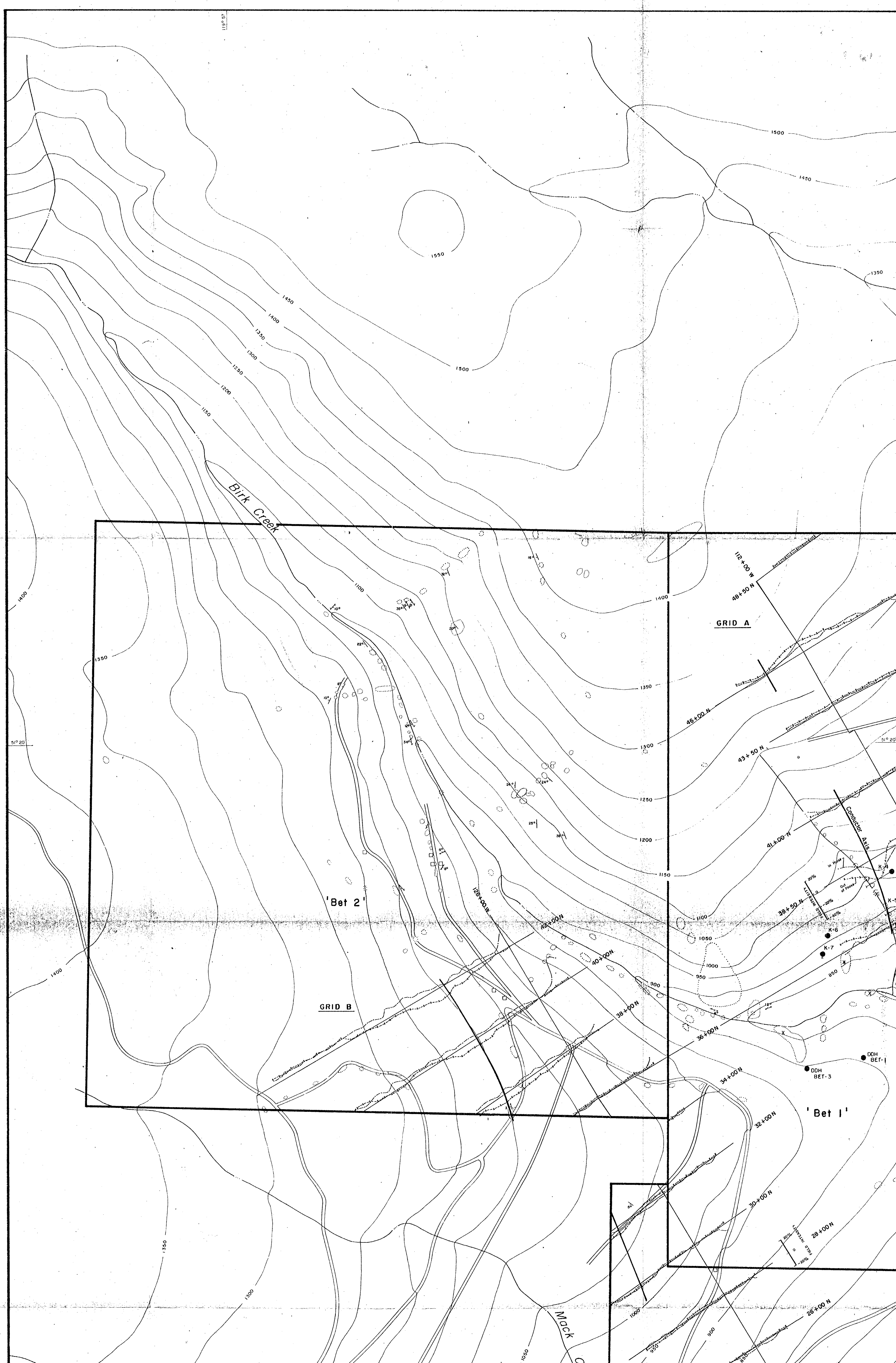
Max-Min II Survey

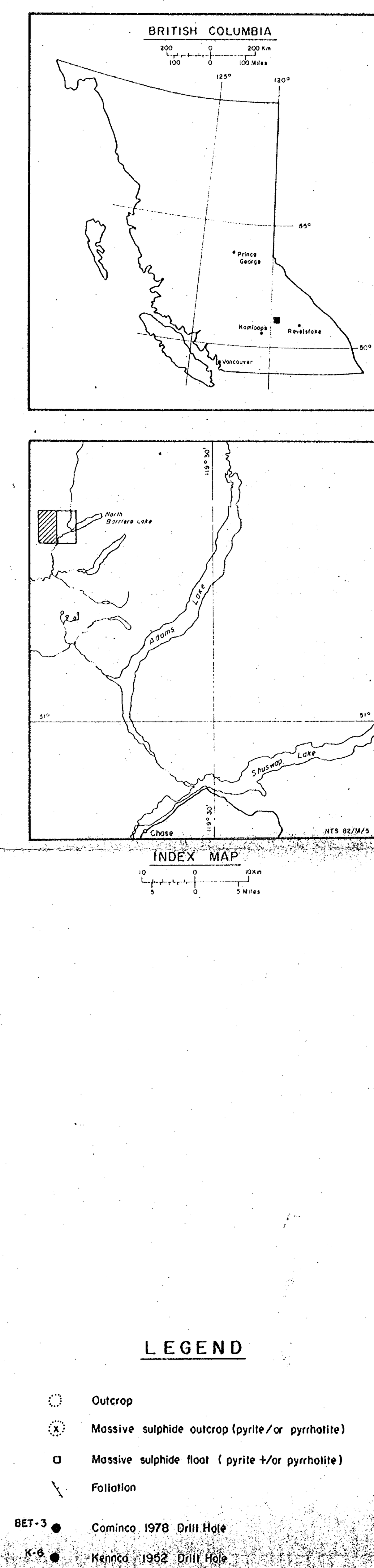
Separation - 150m Frequency - 444Hz
(East Sheet)

FIG. 3a

Contour Intervals of 50 metres

500 0 500 1000 1500 Feet
100 0 100 200 300 400 Metres





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GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PREUSSAG

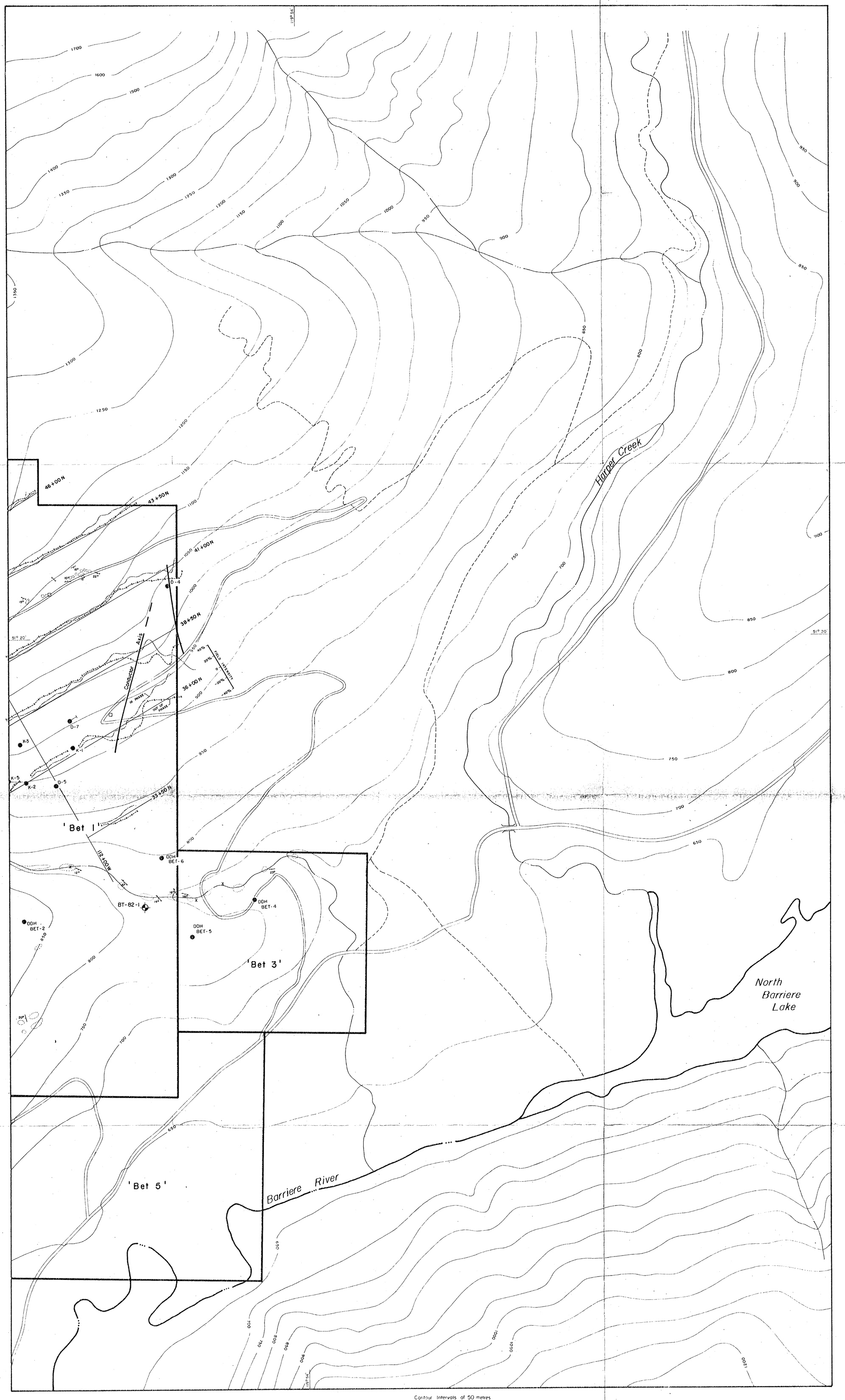
BARRIERE PROJECT - B.C.

Max - Min II Survey

Separation - 150m Frequency - 444Hz
(West Sheet)

FIG. 3b

500 0 500 1000 1500 Feet
100 0 100 200 300 400 Metres



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GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PREUSSAG

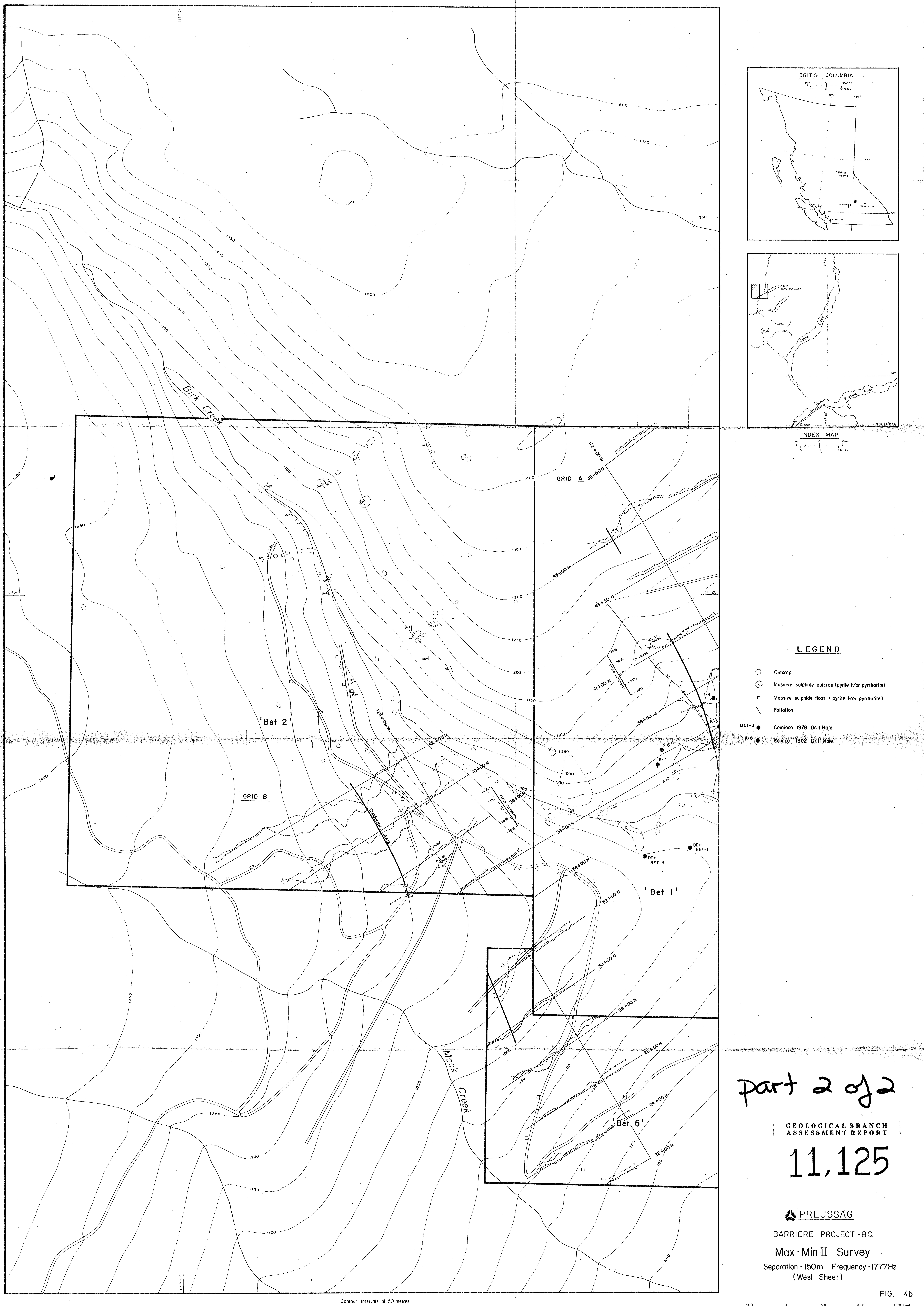
BARRIERE PROJECT - B.C.

Max-Min II Survey

Separation - 150m Frequency - 1777 Hz
(East Sheet)

FIG. 4a

500 0 500 1000 1500 Feet
100 0 100 200 300 400 Metres



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GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,125

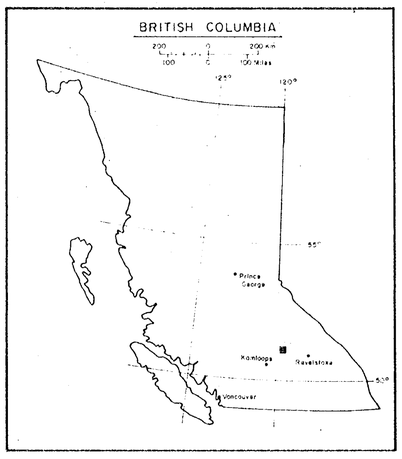
PREUSSAG

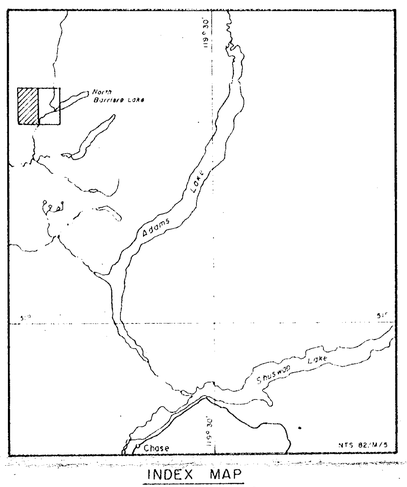
BARRIERE PROJECT - B.C.

Max - Min II Survey

Separation - 150m Frequency - 1777Hz
(West Sheet)

FIG. 4b





INDEX MAP

10 5 0 0 km 5 Miles

LEGEND

- Outcrop
- Massive sulphide outcrop (pyrite +/or pyrrhotite)
- Massive sulphide float (pyrite +/or pyrrhotite)
- Foliation
- BET-3 ● Cominco 1978 Drill Hole
- K-6 ● Kennco 1952 Drill Hole
- Cu Pb Zn Ag — Geochemical soil sample values in ppm

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

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BARRIERE PROJECT - B.C.

Geochemical Soil Survey

FIG. 5

Contour Intervals of 50 metres

500 0 500 1000 1500 Feet
100 0 100 200 300 400 Metres