

# 00017

GEOLOGICAL REPORT

on the

RAF MINERAL CLAIMS

July - Aug. 1974

for

*ENVOY RESOURCES LTD.*  
*(HARMAN MANAGEMENT LTD.)*

Lat.  $64^{\circ} 30'$  Long  $132^{\circ} 15' W.$

NTS 106 - C - 8

by:

C. K. IKONA P. ENG.

Aug. 26, 1974

*N.M.E.A.P.*  
*Received*  
*Jan 21, 1975.*

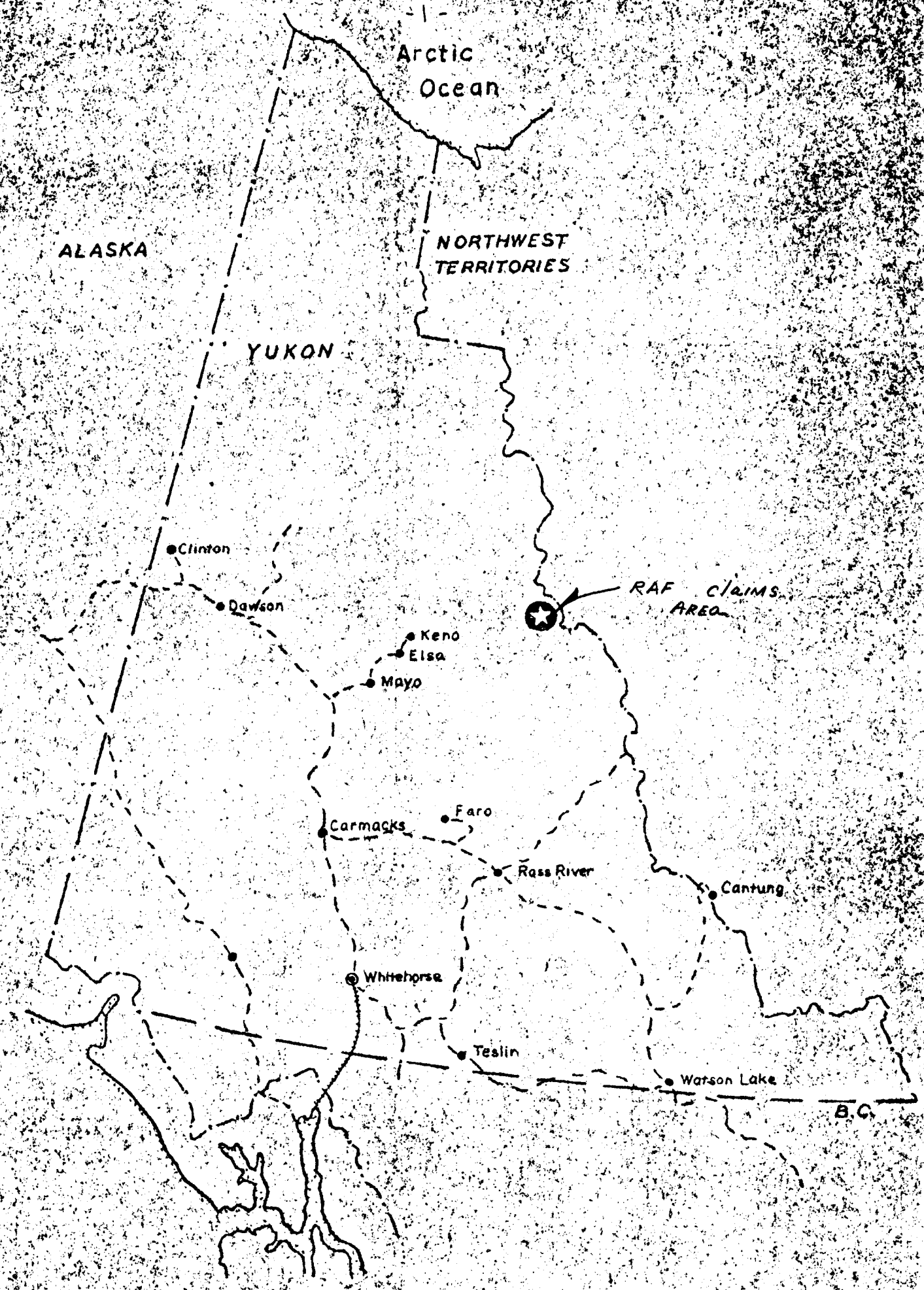
table of contents

<u>Volume I</u>	<u>page</u>
area location map	1
property location map	2
introduction	3
location, access, topography	3
geology	4
assay results	5
conclusions and recommendations	6
personnel	7
statement of costs	8
engineer's certificate	9
direct cost receipts and data	10
map(s)	pocket

Volume II

A) statement of general expenses and notes

B) support receipts



ALASKA

Arctic  
Ocean

NORTHWEST  
TERRITORIES

YUKON

Clinton

Dawson

Keno

Elsa

Mayo

RAF CLAIMS  
AREA

Carmacks

Faro

Ross River

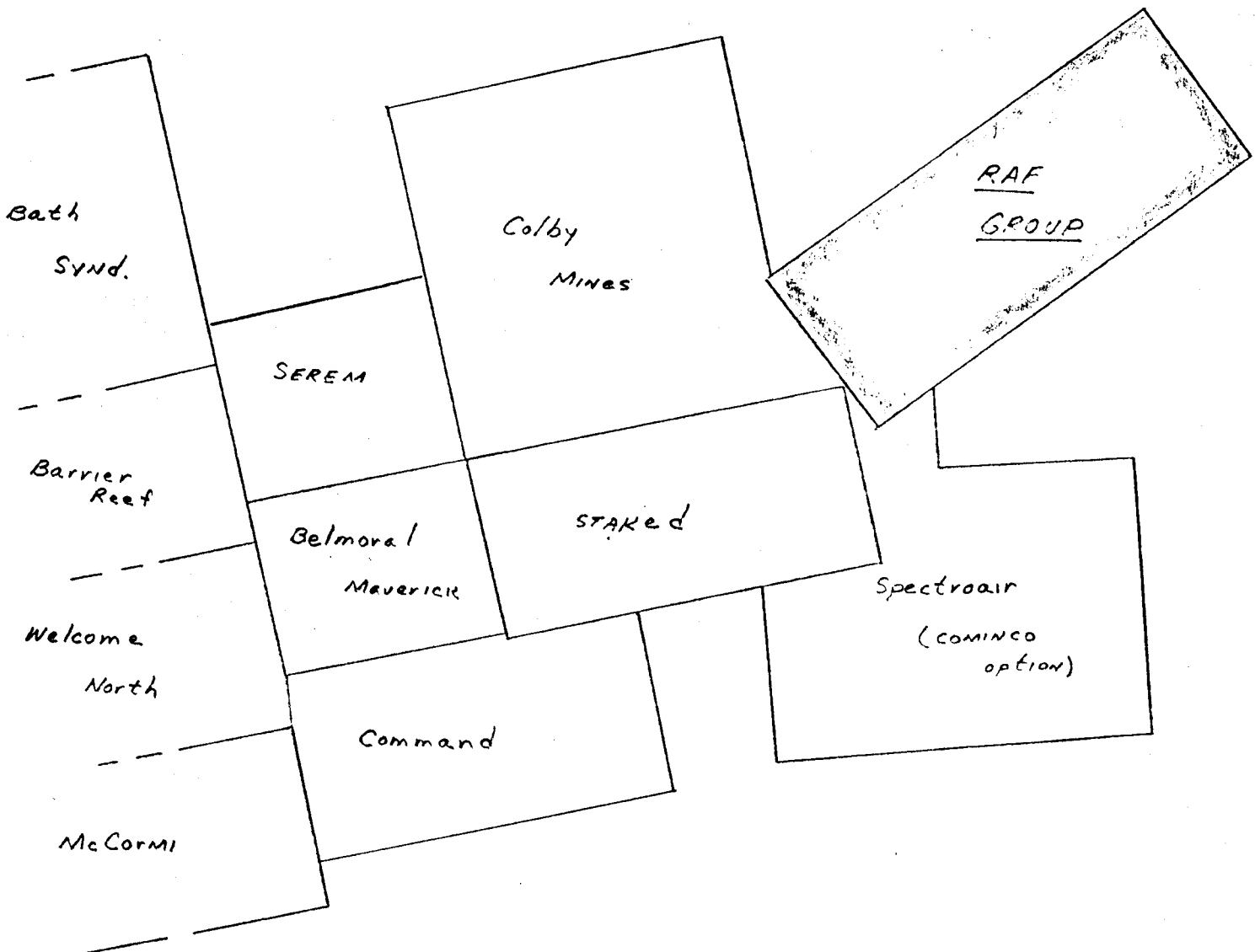
Cantung

Whitehorse

Teslin

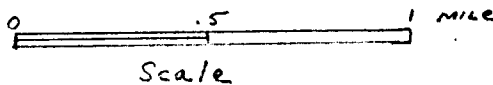
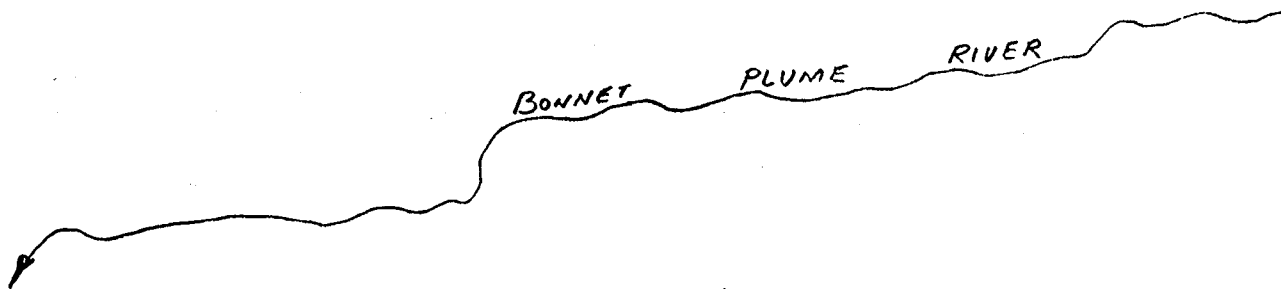
Watson Lake

B.C.



SKETCH

Approx. claim Relations  
Bonnet Plume RIVER Area



### Introduction

The RAF group consists of 40 contiguous mineral claims staked under the Quartz mining act. A program of detailed prospecting, geologic mapping and geochemical soil sampling was conducted on the RAF group during the period July 19 to Aug. 14/74. This program was supervised by the author.

### List of Claims

Claim Names:	RAF 1 - 40
Grant No's.:	Y69912 to Y69951
Expiry Date:	Aug. 21/74
NTS Sheet:	106-C-8

### Location, Access & Topography

The RAF claim group is situated on Duo Creek in the Bonnet Plume River area of the Mayo Mining District, Yukon Territories.

Access to the property can be made by fixed wing aircraft to Goz Lake from Mayo a distance of approximately 130 miles. From there a helicopter can be used to shuttle men and equipment the 8 miles to the property.

Elevations vary within the claims from 3700 to 5500 feet above sealevel. Sparse coniferous trees are located at the lower elevations with some brush and moss higher on the property. Topography varies from cliffs on the North east to a marshy valley along Duo Creek.

## Geology

The RAF claim group is underlain by a series of carbonate and shale units which demonstrate an approximately Northwest strike although the general trend is modified locally by some warping and faulting.

The southwest end of the group is underlain by black shales of the Raod River formation. This unit is locally badly shattered and will probably demonstrate a fairly high background in zinc. The western contact of this formation with lower Cambrian dolomites is not defined locally but probably lies to the west of the RAF group and will be fault controlled.

To the east of the Road River shales, a poorly bedded, porous, crystalline dolomite is exposed for some 6000 feet. This rock weathers to a light grey colour and in places may be weakly mineralized in vugs and along fractures. One such occurrence is just north of the RAF #7 claim where minor galena and sphalerite occurs along with weakly positive reactions from the zinc sensitive geochem field solution. Assays from elsewhere in this unit have returned results in the .02% range, both lead and zinc for similar mineralization.

To the east of this unit is a fault controlled contact with a series of well bedded, buff-orange to grey weathering limestone<sup>s</sup>, dolomites and shales of Lower Cambrian age. These rocks are generally light grey in colour and fine grained containing numerous calcite stringers to ½" in width. General attitude is 310° dipping 45° W. A partial over turning of these units is visible in a circ to the Northwest of the RAF group. No minerals of economic importance were noted in this series of rocks.

Another fault, trending North Northwest on the RAF 19 & 20 claims, marks the contact of this formation and a fine grained light grey dolomite. This unit is probably Silurian to Ordovician in age and may be the same unit exposed to the west of the lower Cambrian formation. This unit is locally shattered with some calcite and quartz healing carrying minor sphalerite and galena in some locations.

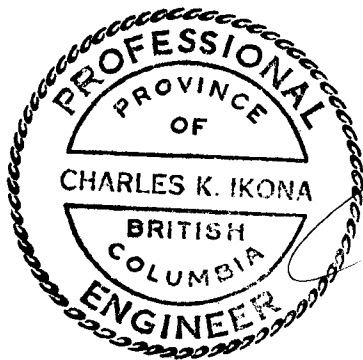
Four samples taken for assay returned the following results.

<u>Sample #</u>	<u>Description</u>	<u>Results</u>	
		<u>%Pb.</u>	<u>%Zn.</u>
RAF #1	chip across 2' showing some secondary zinc	tr	0.02
RAF #2	chip across 4' showing some sphalerite	tr	0.15
RAF #3	chip across 6' 30 feet above sample #2 some sphalerite and secondary zinc	tr	0.05
RAF #4	grab of several pieces of float showing mineralization	tr	0.30

Conclusion and Recommendations

The RAF group is underlain by a series of Northwest trending carbonates and shales of upper Paleozoic age. Weak sphalerite mineralization accompanying quartz fracture healing and vug filling occurs in two of the dolomite units in this series. This type of mineralization is not uncommon in these units and does not appear to possess ore potential.

Final recommendations must await results of the geochemical survey however, at present the group does not appear sufficiently attractive to warrant more expenditure at this time.



Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Charles K. Ikona", written over a horizontal line.

C. K. Ikona

P. Eng.

List of personnel for the RAF Group:

Vic Guinet	RR#1 Cotton wood Island Prince George, B.C.	prospector	July 17
Duck Johnny	General Delivery, Ross River, Y.T.	ass. prospector	July 17
J. Odensky	C/O Box 4509 Whitehorse, Y.T.	geochem sampler	July 17
Kevin Milledge	5794 Atlantic Ave., Halifax, N.S.	field hand	July 17
Graham Baird	74 Withrow Ave., Ottawa, Ont.	prospector	Aug. 1, 2
Steve Toporowski	812 Seafair Place Ottawa, Ont.	ass. prospector	Aug. 1
Chuck Ikona	2416 St. John's, Port Moody, B.C.	P. Eng.	August 2, 3, 14, 15

RAF PROPERTY PROGRAM

STATEMENT OF ACCOUNT

EXPENDITURES: (A) DIRECT

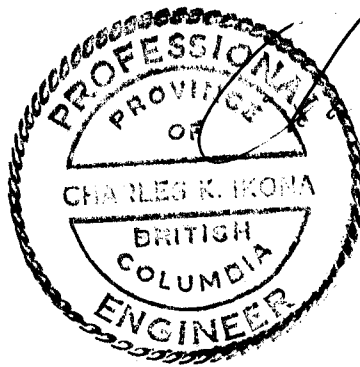
wages	7 man days	\$-350.00	
tagging posts	45 claims	-360.00	
geological fees	C. Ikona	-385.00	
helicopter support	\$199/hour	-120.00	
geochem samples	7 assays 61 samples	-122.00	
field equip. expense	\$6.00/man/day	- 63.00	
camp expense	\$10.00/man/day	- <u>105.00</u>	\$ 1,505.00

(B) PRO-RATA GENERAL EXPENSE

equipment supply		- 243.72	
contracts and rentals		- 23.84	
wages (camp mob/demob/cook)		- 633.75	
food	per diem		
fuels	per hour		
helicopter (general)		- 720.45	
fixed wing (general)		- 631.06	
travel and accomodation		- 49.04	
sundry and administration		- 435.70	
geochem supplies		- 27.79	
expediting services		- 224.43	
air travel and airfreight		- <u>97.36</u>	<u>3,087.14</u>

Total on Account

4,592.14



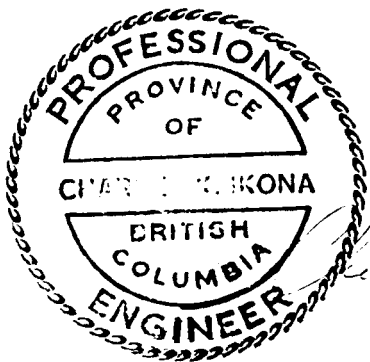
A handwritten signature in black ink, appearing to read "Charles K. Ikona", written over the professional seal.

ENGINEERS CERTIFICATE

I, CHARLES K. IKONA of 2614 St. John's St., Port Moody, in the Province of British Columbia do hereby certify that:

1. I am a consulting mining engineer with offices at 609-850 W. Hastings St., Vancouver, B.C.
2. I am a graduate at the University of British Columbia with a degree in Mining Engineering.
3. I am a member in good standing at the Association of Professional Engineers of the Province of British Columbia.
4. The work described in the accompanying report on the Claim Group was performed under my personal supervision.

Dated this 30th day of August 1974 at Vancouver, B.C.



Charles K. Ikona, P. Eng.

A handwritten signature in cursive script that reads "Charles K. Ikona".

Direct Cost Invoices

Helicopter and geochemical support data

WHITEHORSE ASSAY OFFICE  
 BOX ~~413~~ 4518  
 WHITEHORSE, YUKON

Samples from: HARMAN MANAGEMENT

Lot. No.: A-676-41

ALL RESULTS - P.P.M.

	SAMPLE #	Pb	Zn	Ag	SAMPLE #	Pb	Zn	Ag
	RAF 1-A	24	264	.6	S1J	24	144	1.2
C-0	2-A	24	208	6.0	S2J	20	384	1.2
C-0	3-A	24	200	1.2				
	4-A	32	336	.6				
	5-A	24	80	1.2				
0	6-A	24	160	.4				
	7-A	20	360	1.2				
	8-A	22	272	1.4				
	9-A	28	368	.4				
	10-A	24	232	.8				
	RAF 11-A	40	416	1.2				
	12-A	28	328	.6				
	13-A	20	360	.6				
	14-A	20	208	1.4				
	15-A	20	280	1.0				
	16-A	28	488	.6				
	17-A	16	24	.8				

R  
1  
00

WHITEHORSE ASSAY OFFICE  
 BOX ~~413~~ 4518  
 WHITEHORSE, YUKON

Samples from: HARMAN MANAGEMENT

Lot. No.: A-676-41

ALL RESULTS - P.P.M.

	SAMPLE #	Pb	Zn	Ag	SAMPLE #	Pb	Zn	Ag
	RAF 1-A	24	264	.6	S 1 J	24	144	1.2
C-O	2-A	24	208	6.0	S 2 J	20	384	1.2
C-O	3-A	24	200	1.2				
	4-A	32	336	.6				
	5-A	24	80	1.2				
0	6-A	24	160	.4				
	7-A	20	360	1.2				
	8-A	22	272	1.4				
	9-A	28	368	.4				
	10-A	24	232	.8				
	RAF 11-A	40	416	1.2				
	12-A	28	328	.6				
	13-A	20	360	.6				
	14-A	20	208	1.4				
	15-A	20	280	1.0				
	16-A	28	488	.6				
	17-A	16	24	.8				
	18-A	20	64	.4				
	RAF 19-A	16	56	.4				
	RAF 1-J	20	144	.4				
	2-J	28	552	.8				
	3-J	16	248	.6				
	4-J	12	448	.6				
	5-J	28	104	.4				
	6-J	16	96	.2				
	7-J	18	216	.2				
	8-J	8	280	1.0				
	9-J	12	168	1.6				
	10-J	20	216	.4				
	11-J	28	168	.4				
	RAF 13-J	12	224	.4				
	14-J	12	56	.4				
	15-J	16	72	.4				
	16-J	12	96	.4				
	17-J	28	168	.4				
	19-J	16	96	.8				
	20-J	20	120	.6				
	21-J	20	232	.4				
	RAF 22-J	32	272	.6				

COARSE  
 ORGANIC

Date: August 3/74

Assayer: K. Hysland



127

# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1  
TELEPHONE: 985-0648  
AREA CODE: 604

• ANALYTICAL CHEMISTS      • GEOCHEMISTS      • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO: Harman Explorations  
821 - 602 W. Hastings  
Vancouver, B.C.

CERTIFICATE NO. 27983  
INVOICE NO. 12149  
RECEIVED Aug. 12/74  
ANALYSED Aug. 15/74

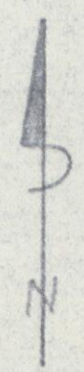
ATTN:

SAMPLE NO. :	PPM Lead	PPM Zinc
MX G 7	44	102
8	42	83
9	40	112
10	33	67
11	38	92
12	32	72
13	42	80
MX G 14	44	123
RAF H 1	50	108
2	46	400
3	38	275
4	40	45
RAF H 5	46	98
TOM A 0	52	275
1	60	375
2	54	640
3	77	700
4	56	375
5	62	640
6	100	1588
7	72	950
8	52	450
9	42	240
10	46	194
11	62	700
12	52	233
13	40	400
14	42	275
15	70	1080
16	46	900
17	56	2440
18	48	466
19	50	450
TOM A 20	46	1044
TOM 1 B	34	680
2	56	660
3	56	733
4	68	3544
5	32	600
TOM 6 B	54	420
Std.	62	50



MEMBER  
CANADIAN TESTING  
ASSOCIATION





CERTIFIED BY: .....



RAF GROUP  
Bdy. (approx.)

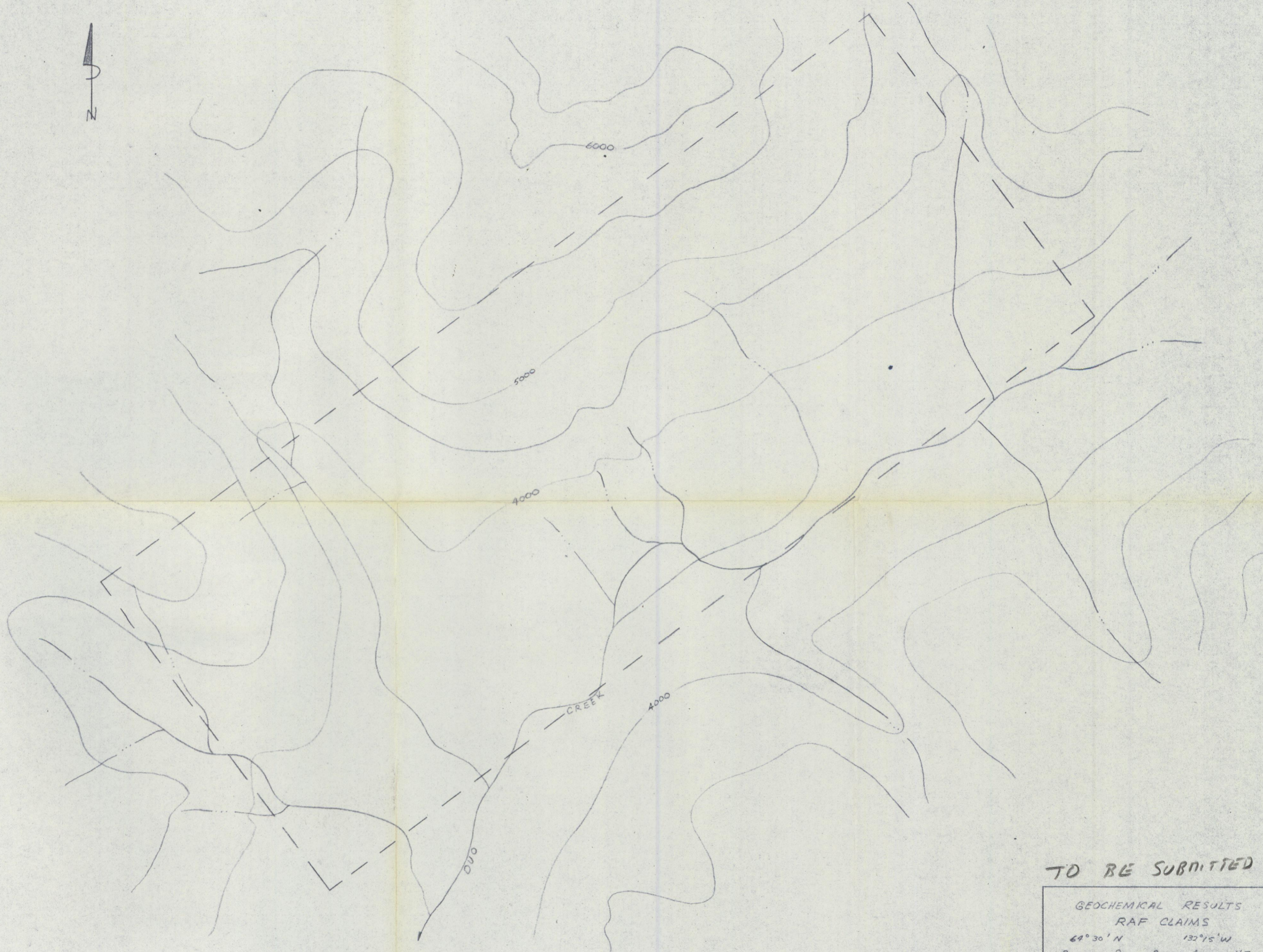
DUG  
CREEK

LEGEND

-  Road River shale  
blk, bedly shattered
-  ord-Sil. dolomites, fine grained, light grey  
Locally shattered, gta calcite healing  
minor sphalerite
-  ord-Sil dolomite, poorly bedded, crystalline  
and porous locally, light grey weathering  
minor sphalerite in occasional fracture
-  buff to grey weathering, interbedded  
SEKW dolomites and limestones  
purple shale marker horizons
-  ORANGE weathering dolomite of Backbone  
formation. Locally porous with gta  
open space filling
-  Geologic Contact
-  Outcrop Bdy.
-  Fault
-  STRIKE & Dip (B bedding)

**GEOLOGY - RAF CLAIMS**  
 LAT 69°30'N LONG 132° 15'W  
 BONNET PLUME RIVER AREA Y.T.

OWN. C1	Scale 1"=1000'	AUG 1974
HARMAN Mgmt. Ltd.		



TO BE SUBMITTED

GEOCHEMICAL RESULTS		
RAF CLAIMS		
69° 30' N		132° 15' W
BONNET PLUME RIVER AREA Y.T.		
DWN. CI	Scale 1" = 1000'	AUG 1974
HARMAN Mgmt Ltd.		