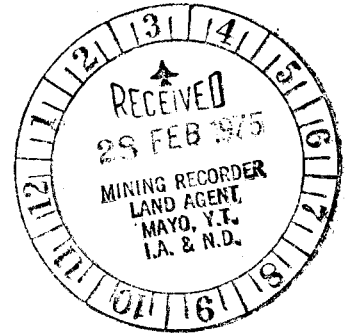




GEOLOGICAL AND GEOCHEMICAL REPORT

on the



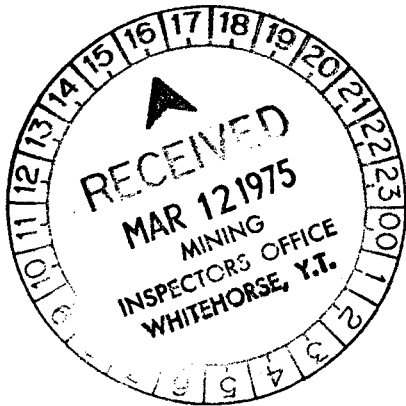
MX CLAIM GROUP

LAT. 64° 27' N LONG. 132° 45' W

for

HARMAN MANAGEMENT LTD.

4000⁰⁰



by:

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$ 4 000.00

AB. Craig
 Resident Geologist or
 Resident Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

[Signature]
 Commissioner of Yukon Territory

Charles K. Ikona P. Eng.

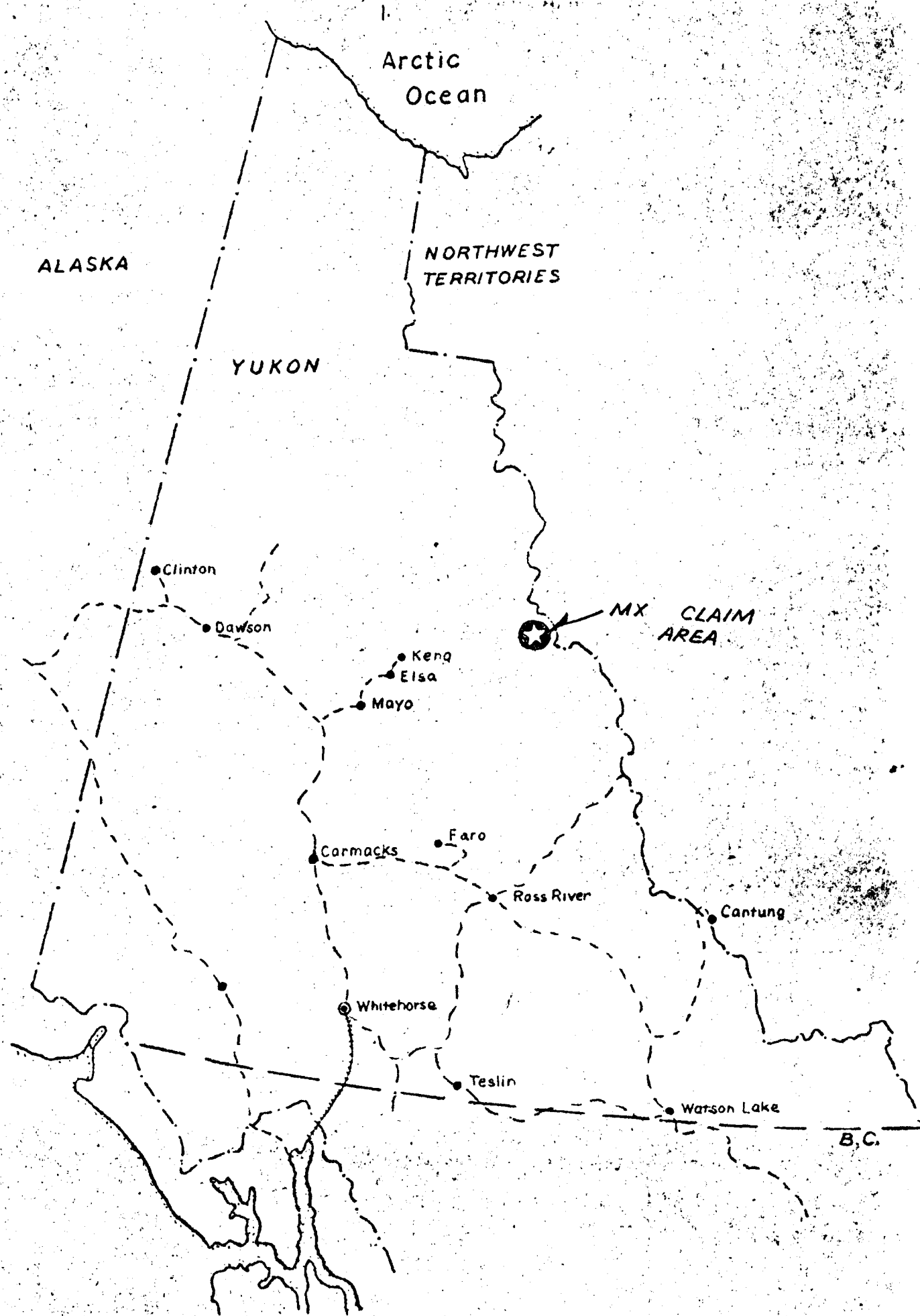
August 23, 1974

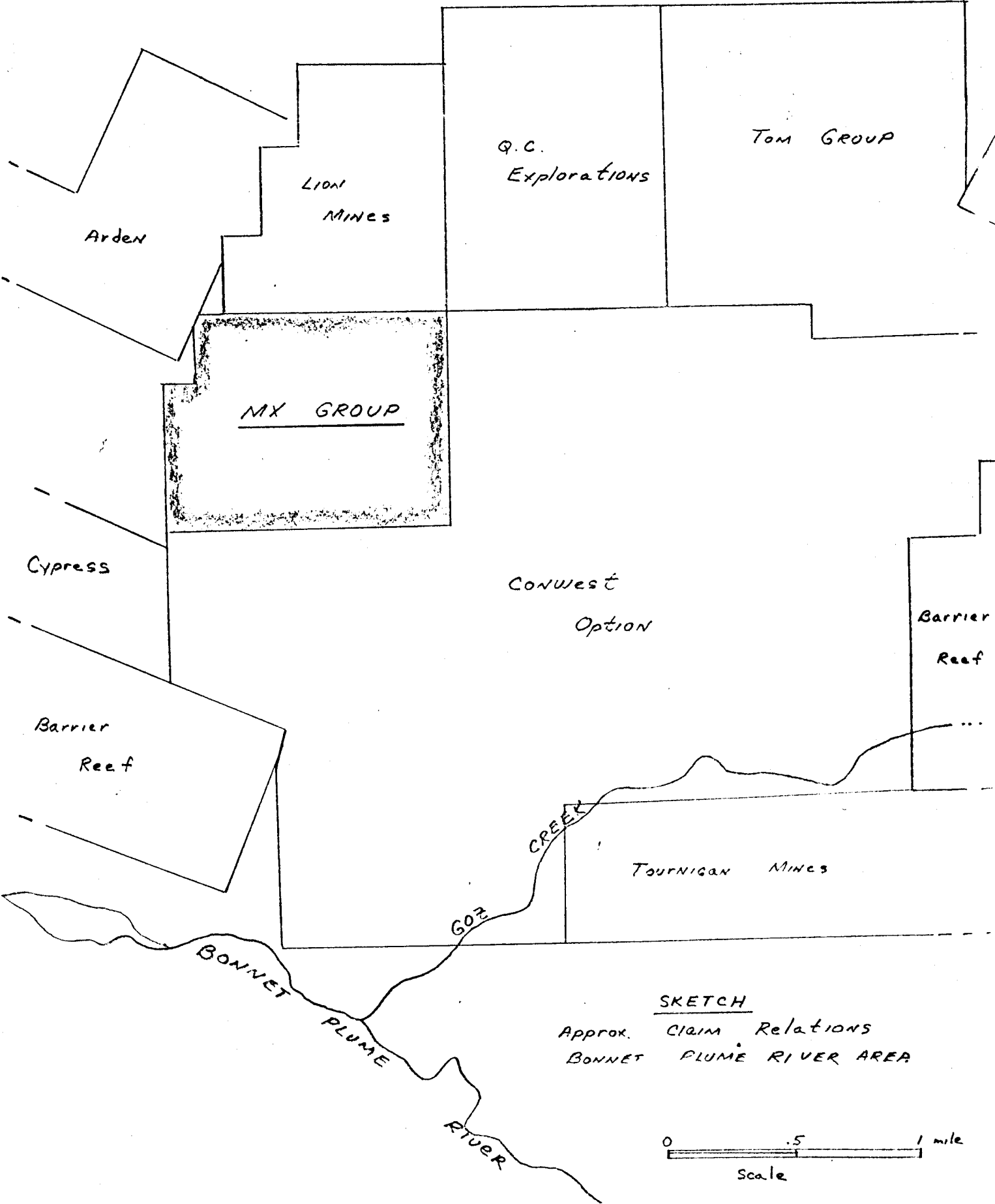
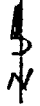
table of contents

<u>Volume I</u>	<u>page</u>
area location map	1
property location map	2
introduction	3
location, access, and topography	3
geology	4
geochemistry	5
method of analysis	5
discussion of results	5
conclusions	5
list of personnel	7
statement of expenditures	8
engineer's certificate	9
direct cost data	10
map(s)	pocket

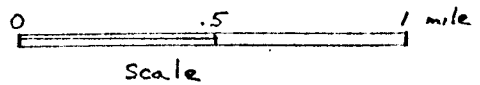
Volume II

- A) statement of general expenditures and notes
- B) support data





SKETCH
 Approx. CLAIM Relations
 BONNET PLUME RIVER AREA



Introduction

On June 14th and 19th, 1974 the author conducted a preliminary examination of the MX Group. As a result of this examination and subsequent report it was decided that the southwest portion of the group offered the only potential for an economic mineral ^{occurrence} occurrence. Consequently a program of geochemistry, prospecting and geologic mapping was carried out on the MX 5 to 14 claims located in this area. This work was performed during the first week in August under the authors supervision.

List of Claims

<u>Claim Name:</u>	<u>MX 1-40</u>	<u>Grants</u>	<u>Expirey Dates</u>
1 - 8		Y88546 - Y88553	May 16/75
9 - 16		Y86526 - Y86533	Feb.15/75
17 - 24		Y88554 - Y88561	May 16/75
25 - 32		Y88562 - Y88569	May 16/75
33 - 40		Y86550 - Y86557	Feb.15/75

Located: NTS 106-C-7

Location, Access and Topography

The MX Group consists of 40 contiguous claims located on the east bank of Harrison Creek in the Mayo ^{Dist} of the Yukon Territories at Lat. 64° 27' N Long. 132° 45' W.

Access to the property is by fixed wing aircraft to Porter Puddle then by Helicopter ~~10~~ ⁴ miles north to the property.

Topography is moderate to rugged with elevations varying from 3500 to 5500 feet above sea level. The lower valleys are fairly densely wooded with coniferous trees, moss and brush on the ridges.

Geology

The claim group is underlain by the Sheepbed Formation. Locally the formation shows thinly bedded black and brown shales with thinly interbedded brown quartzite or quartz sandstone and some thicker (up to 6 feet) beds of conglomerate. This unit shows some limonite and decomposed pyrrhotite lenses but no minerals of economic importance were noted. The Sheepbed unit in this area appears several thousands of feet thick and in general strikes approximately N 50 E dipping gently to the south. Some local warping is evident but the unit is fairly uniform.

To the south of the group a poorly defined fault controlled contact with Hadrynian dolomites occurs. Minor secondary zinc mineralization has been indicated in these dolomites by weak positive reactions with zinc sensitive geochem solutions.

The program conducted in August was to better define property boundaries and the sheepbed-dolomite contact along with a geochemical program over the part of the claim group which might contain some of these dolomites.

This program indicated some phyllitic textures and minor faulting and folding in the Sheepbed along Harrison Creek. Small outcrops of dolomites and limestones, possibly fault and fold controlled, do appear among the Sheepbed rocks in this area; however no mineralization of economic importance was noted.

Geochemistry

A grid of 500' x 500' was established on the MX 5 to 14 claims and a total of 84 soil samples collected.

All samples were placed in kraft bags and air dried in camp.

Method of Analysis

The samples were delivered to Chemex labs Ltd. 212 Brooksbank Ave., North Vancouver, B.C. for lead and zinc determination. A hot acids digestion method was employed and analysis made on an atomic absorption unit.

Discussion of Result

All samples collected on this program returned results considered to be background for the area. The program must therefore be considered as returning negative results.

Conclusions and Recommendations

The claim group is entirely underlain by the sheepped formation consisting of shales, siltstones and minor quartz sandstones and pebble conglomerate. This unit is not considered a favorable horizon for ore occurrences in the Bonnet Plume Area.

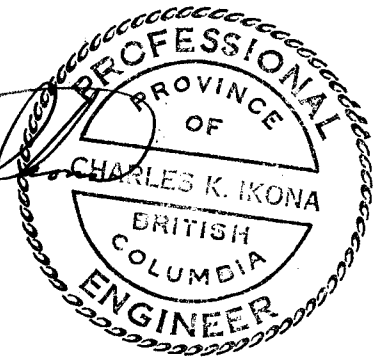
The geochemical survey over the one part of the claim group which may have been underlain by a more favorable dolomite unit has returned negative results.

Consequently no further expenditure is warranted on the MX group at this time.

Respectfully submitted



C. K. Ikona P. Eng.



List of personnel for the MX Group:

Chuck Ikona	2416 St. John's Port Moody, B.C.	P. Eng.	June 14, 15, Aug. 12, 29
Steve Toporowske	812 Seafair Place Richmond, B.C.	ass. prospector	Aug. 5, 6, 7
Kevin Milledge	5794 Atlantic Ave. Halifax, N.S.	field hand	Aug. 5,6
Duck Johnny	General Delivery Ross River, Y.T.	ass. prospector	Aug. 5, 6

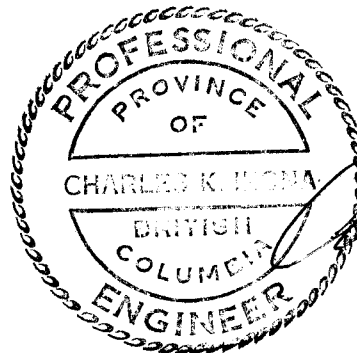
MX MINERAL CLAIMS
STATEMENT OF EXPENSES
August 27, 1974

DIRECT COSTS:

wages	7 man-days	350.00	
tagging posts	40 claims	320.00	
geologic fees	C. Ikona	330.00	
helicopter support	\$199/hour	278.60	
geochem assays and samples	84 samples	168.00	
field equip expense	\$ 6.00/man/day	60.00	
camp expense	\$10.00/man/day	<u>100.00</u>	1,606.60

PRO-RATED GENERAL

equip supply	243.72	
contracts and rentals	23.84	
wages (camp mob/demot/cook)	633.75	
food	per diem	
fuels	per hour	
helicopter (general)	720.45	
fixed wing (general)	631.06	
travel & accom.	49.04	
sundry & admin.	435.70	
geochem supplies	27.79	
expediting services	224.43	
air travel & airfreight	<u>97.96</u>	
	3,107.74	<u>3,107.74</u>
Harman Explorations Ltd. Fee:		0.00
Total Expenditures to date:		<u>4,714.34</u>



Charles K. Ikona

CANADA) In the matter of a geological and geochemical survey
) and report on the MX Mineral claims 1-40
) on behalf of Harman Management Ltd
TO WIT:)

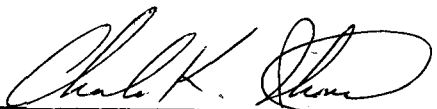
I, Charles K Ikona for Pamicon Development Ltd of 609-850 West Hastings street, Vancouver, B.C. do solemnly declare that geological and geochemical survey conducted on the MX mineral claims 1-40 during the period June 14 & 15 and August 5 & 6 , 1974.

The following expenses were incurred during the course of this work and in the compilation and reporting of the results:

wages	\$ 350.00
tagging posts	320.00
geologic fees	330.00
helicopter support	278.60
geochem assays and samples	168.00
field equipment expense	60.00
camp expense	100.00
equipment supply	243.72
contracts and rentals	23.84
wages	633.75
food f	n/a
fuels	n/a
helicopter	720.45
fixed wing	631.06
travel and accommodation	49.04
sundry and admin.	435.70
geochem supplies	27.29
expediting services	244.43
air travel and airfreight	<u>97.96</u>
Total expenditures to date	\$ <u>4,714.34</u>

And I make this solem declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virture of the Canada Evidence Act.

Declared before me at Vancouver)
in the Province of British)
Columbia this 30th day of)
JANUARY, 1975.)



H.S. Aik
A Commissioner for Oaths for
or Notary Public
for the Yukon TERRITORY.

ENGINEERS CERTIFICATE

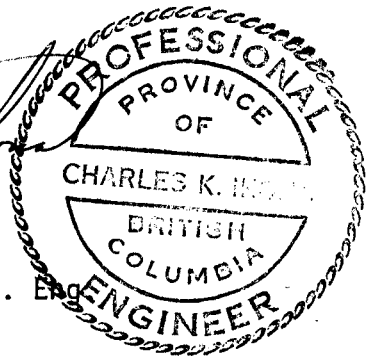
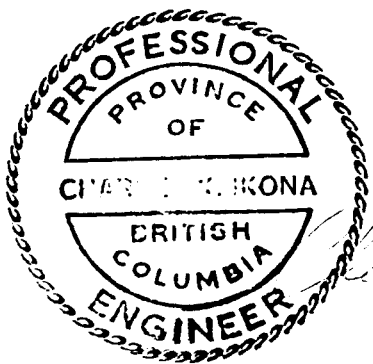
I, CHARLES K. IKONA of 2614 St. John's St., Port Moody, in the Province of British Columbia do hereby certify that:

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



Direct Cost Invoices

Helicopter and geochemical support data



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. 27982
 INVOICE NO. 12149
 RECEIVED Aug. 12/74
 ANALYSED Aug. 15/74

ATTN:

SAMPLE NO. :	PPM Lead	PPM Zinc
MX D 6	48	127
7	44	98
8	38	135
9	32	112
10	26	92
11	34	131
12	34	92
13	36	108
14	38	108
MX D 15	38	98
MX E 1	32	127
2	30	108
3	32	92
4	26	112
7	28	86
8	40	115
9	32	108
10	28	80
11	24	92
13	28	98
14	22	89
MX E 15	28	115
MX F 1	34	120
2	34	112
3	32	108
4	34	95
5	30	77
8	34	83
9	40	115
10	40	112
11	30	98
12	36	89
13	32	102
MX F 14	30	105
MX C 1	30	105
2	28	115
3	18	95
4	36	120
5	28	108
MX 6	40	92
Std.	58	52



MEMBER
 CANADIAN TESTING
 ASSOCIATION

CERTIFIED BY: *APL*



GX

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. 27981
INVOICE NO. 12140
RECEIVED Aug. 12/74
ANALYSED Aug. 15/74

ATTN:

SAMPLE NO. :	PPM Lead	PPM Zinc
N 1	58	1588
2	77	3580
3	54	500
N 4	56	1360
MX 1B	32	115
2	34	115
3	36	112
4	44	131
5	36	102
6	40	123
7	32	98
8	38	123
9	48	120
10	32	92
11	38	120
12	38	115
13	36	108
14	36	108
MX 15B	38	120
MX 1C	36	108
2	34	108
3	38	105
4	40	135
5	32	105
6	48	135
7	34	112
8	34	112
9	36	115
10	36	115
11	36	120
12	24	62
13	30	123
14	30	102
15	38	127
16C	36	115
1	42	140
	66	105
	40	123
	54	102
	40	112
	58	50

MEMBER
CANADIAN TESTING
ASSOCIATION

CERTIFIED BY: *P. P. Shaffer*



CHEMEX LABS LTD.

127

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: *[Signature]*

HELI-VENTURES LTD.

OUR NUMBER	275817
DATE	JUNE 19-74
CUSTOMER'S ORDER	
SALESMAN	
TERMS	
F.O.B.	

SOLD TO HARMAN MANAGEMENT LTD.
Box 4509 White Horse Yukon.

SHIPPED TO _____

ADDRESS _____ VIA _____

INVOICE

	HARRY CLAIM		· 4		
	DICK CLAIM		· 4		
	MX CLAIM		· 4		
	FLY CAMP RESUPPLY AND RELOCATION	5	· 0		
	SYNDICATE FLY CAMPS.				
		6	2	46	3

SLUENTURES LTD.

OUR NUMBER	275614
DATE	Aug 5-74
CUSTOMER'S ORDER	
SALESMAN	K.S. STURGES.
TERMS	
F.O.B.	

SOLD TO HARMAN MANAGEMENT LTD. ^{GT}
BOX 4509 WHITEHORSE YUKON

SHIPPED TO _____

ADDRESS _____ VIA _____

INVOICE

	MINE GROUP (CHISTONM) (STAKINL)		8		
	T.D.H. GROUP (C.K.L.)		8		
	COZ-CAMP RELOCATION (117.6 P' ELMER)		10		
			26	226	8



Faso Claim group

Harry claim group

Tom Claim Group

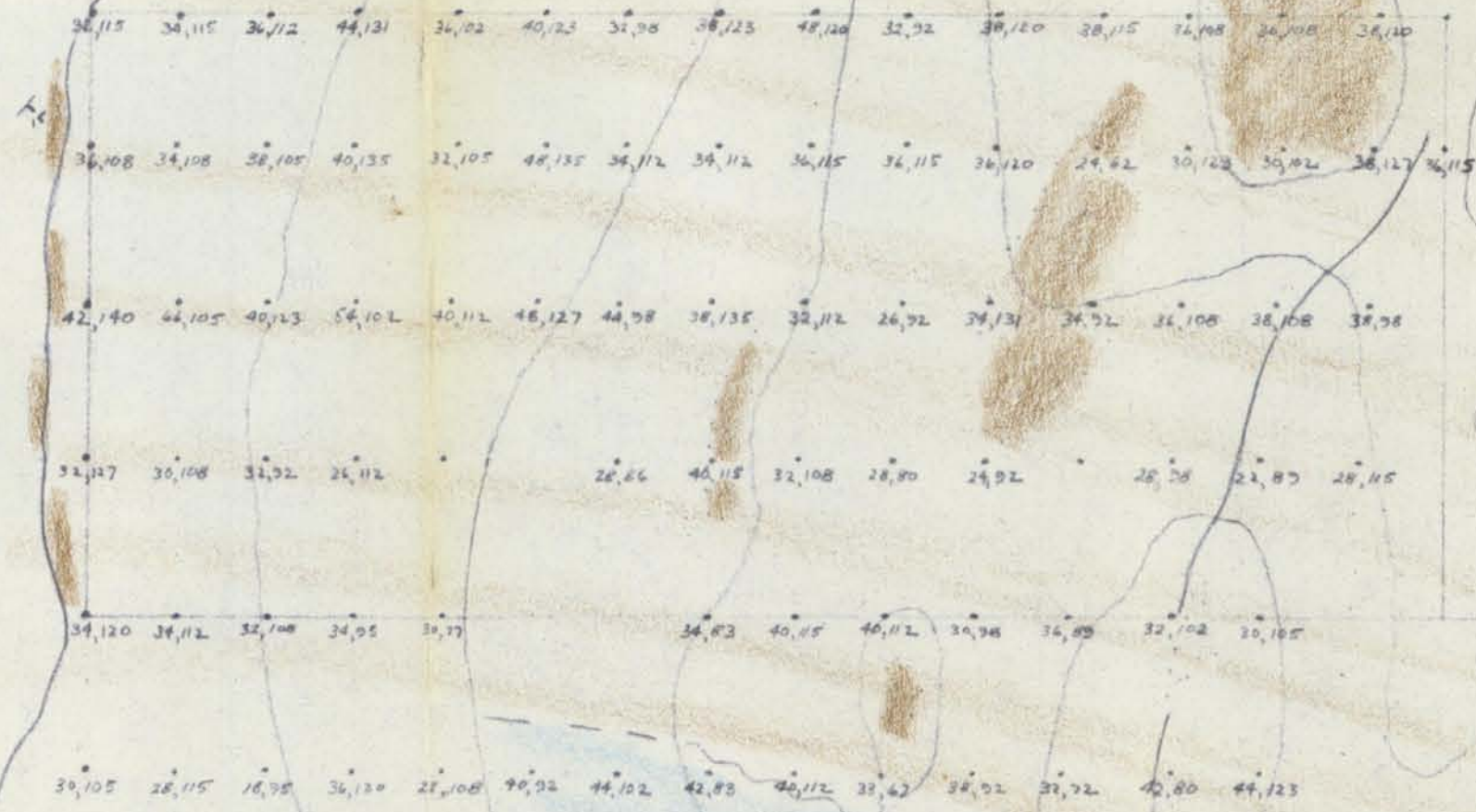
Harrison Creek

4000






MX MINERAL CLAIM GROUP

T₃₀

5000



LEGEND

-  Gray weathering porous light grey dolomite (Ord-Sil?)
-  SHEEPBED FORMATION
thinly bedded brown-blk shales & siltstones
minor interbedded grt sandstones & pebbly conglomerate
-  ? Fault (inferred)
-  geologic contact
-  dip & strike
- Soil Sample ppm Pb, ppm Zn

Gal Claim group

GEOLOGY AND GEOCHEMISTRY
MX MINERAL CLAIMS
64°27' N 132°45' W

DWN. CI	Scale 1"=1000'	Aug 1974
HARMAN Mgmt. Ltd.		