

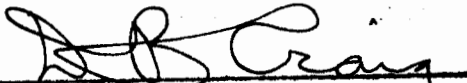
GEOLOGICAL AND GEOCHEMICAL  
REPORT

on

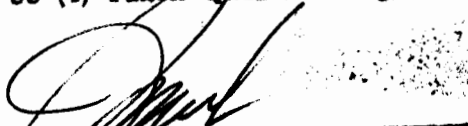
DICK CLAIM GROUP  
64°<sup>28.5'</sup> N & 132°<sup>43'</sup> W  
NTS 106-C-7  
Y 84962 to Y 85009

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 \$ 8000.00

  
Resident Geologist or  
Resident Mining Engineer

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

  
Commissioner of Yukon Territory.

CHARLES K. IKONA P. ENG.

\$ 8000

HARMAN MANAGEMENT LTD.

AUGUST 30, 1974





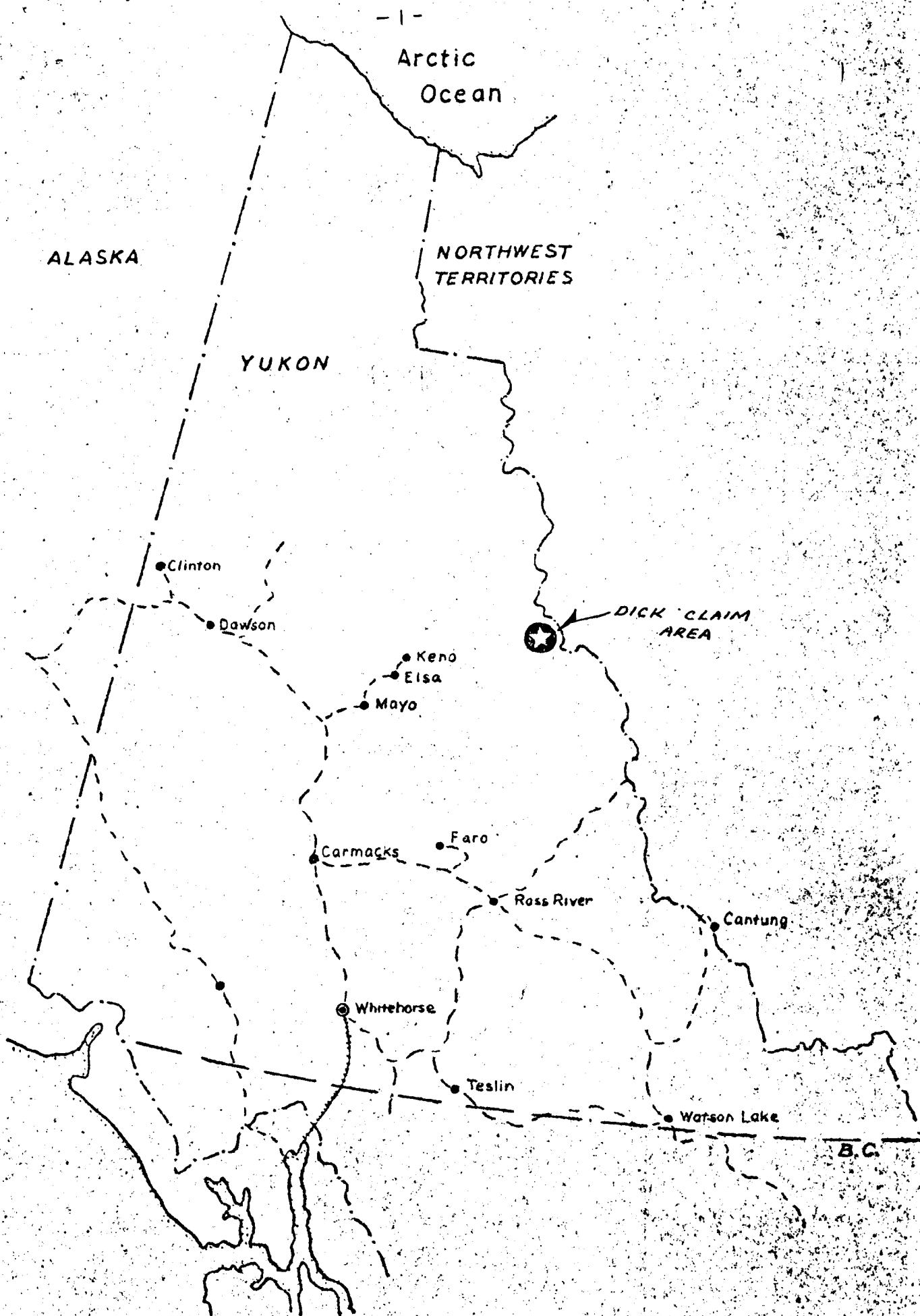
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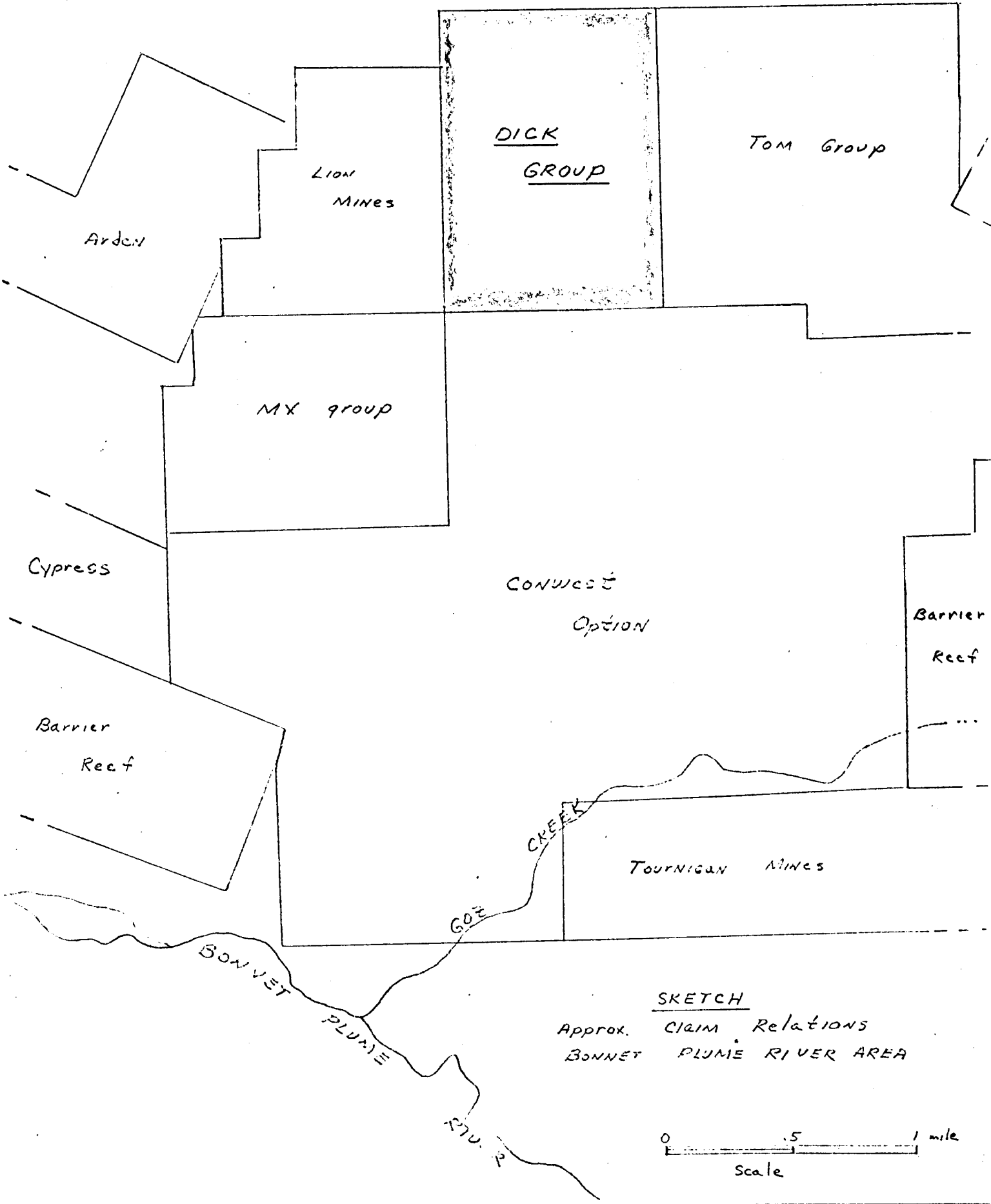
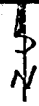
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Volume II

A) statement of General Expenses and notes

B) support receipts





SKETCH  
 Approx. CLAIM RELATIONS  
 BONNET PLUME RIVER AREA

0 .5 1 mile  
 Scale

### Introduction

A work program consisting of detailed prospecting, geologic mapping and geochem soil sampling was conducted on the Dick mineral claims during the periods June 11 to 14 and July 30 to August 12, 1974. This program was under the supervision of the author, Charles Ikona, P. Eng.

### List of Claims

Name: Dick 1 - 48 inclusive  
Grant #'s: Y84962 to Y85009 inclusive  
Location: N T S 106 - C - 7  
Expirey date: September 4, 1974

### Location and access

The Dick claims are located west of Harrison Creek in the Mayo Mining District of the Yukon Territory at approximately  $64^{\circ} 30' N$  and  $132^{\circ} 45' W$ , on N T S map 106 - C - 7

Access to the property can be made by fixed-wing aircraft from Mayo, Yukon to Goz Lake, a distance of 123 air miles. From this point, it is 15 air miles to the property by helicopter.

The Dick claim group consists of 48 contiguous mineral claims and is bounded on the west by the Harry claim group, on the east by the Tom claim group, and on the south by the Gal claim group.

### Topography

Elevations of the Dick group vary from 3,500 to 6,000 feet above sea level. Some small coniferous trees grow along the lower reaches of the creeks, however, most vegetation is confined to sparse brush and moss. Topography is rugged with steep shale ridges capped by cliffs of dolomite. Outcrop and talus cover some 75% of the group with a poorly developed soil profile on the remainder.

## Geology

Most of the claim group is underlain by brown to black shales and siltstones of the sheepbed formation. Some thinly inter-bedded brown quartz sandstones and quartz pebble conglomerates are also contained within this unit. General attitudes are approximately N 50 E dipping 25° - 45° to the southeast, however, some local warping is evident.

Conformably overlying this unit on ridge tops, and along the eastern edge of the claim group is a lower Cambrian unit comprised of massive, poorly bedded dolomites, quartzites, and recessive shales and siltstones. The dolomites of this unit vary from grey coarsely crystalline to micro crystalline and vuggy textures. In general the unit weathers a buff colour but in some areas, it appears a light grey.

Fairly extensive quartz-fracture healing and vug filling is common throughout the unit. In some cases this quartz healing may be accompanied by minor lead and/or zinc both as secondary and primary nature. This mineralization is not generally pervasive enough to be of other than academic interest.

An exception to this is the showing located by prospecting on the Dick #1 mineral claim. Here a massively bedded, fine grained, grey-green vuggy dolomite has been locally shattered and partially healed by quartzite in fractures and vugs. Sphalerite accompanies this quartz weakly over 100 feet in vertical section and fairly strongly over the central portion. Mineralization is exposed over some 500 feet in strike length with the unit obscured by talus to each end. The general attitude of the mineralized area appears to conform with the regional bedding, however, it would be premature to classify the mineralization as a bedded deposit at this time.

Five samples were collected for assay purposes from this showing. They represent chip samples from both the talus float and cross sections of the beddings.

Descriptions of these and results are tabulated below.

Sample #1	East end of showing random grab sample of - 10 lbs. of - 1" chips of float in talus exhibiting a strong positive reaction with zinc sensitive solution.	0.10% zn	L.01% Pb.
Sample #2	- 100' west of sample #1 continuous chip sample over a 20' vert section	0.19% zn	L.01% Pb.
Sample #3	- 100' west of sample #2 cont. chip sample over 20' vert section	0.20% zn	L.01% Pb.
Sample #4	same location as sample #3 but cont chip over next 30' below sample #3	0.35% zn	L.01% Pb.
Sample #5	same location as sample #3 & #4 but picked pieces showing some sphalerite	3.20% zn	L.01% Pb.

L. - less than

### Geochemistry

53 soil and silt samples were collected from the Dick claim group. Where possible the soil samples were taken at a depth of 12". The unusually high percentage of outcrop and talus present on the property severely restricts the scale of geochemical program possible.

The 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 Results

The restrictive size of the sampling program caused by the amount of talus and outcrop along with the highly carbonate chemistry and high zinc background of the area severely restricts the value of geochemistry. Consequently the geochemical program was performed as a check on the results of surface prospecting and mapping. As such it supports the tentative surface conclusions by showing a generally higher background in the dolomites than shales. Only one sample of 733 ppm zinc on the Dick #2 claim is several times background and cannot be justified by surface inspection at this time.

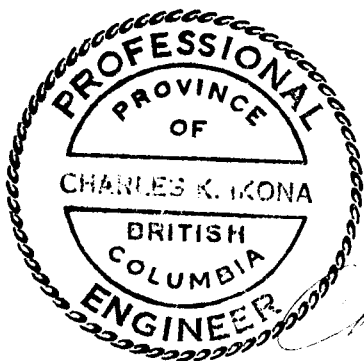
Conclusions & Recommendations

Assays from the mineralized zone on the Dick #1 claim are lower than anticipated. However this may to some extent reflect the difficulties of sampling fracture controlled mineralization rather than the true grade of the showing. A mineralized area of some 100 feet in vertical section, 500 feet long and open at both ends still warrants further work to more accurately define its potential. It is recommended that the area of the showing and of any possible extensions be mapped geologically and that trenching and bulk sampling be conducted on the showing and on any other mineralization encountered during the detailed mapping.

The following program is recommended.

1. establishment of a 2000' x 1000' grid with cross lines at a 200' spacing and stations established at 100' intervals on the cross lines. Particular care should be taken in establishing elevations for each station.
2. Geologic mapping of the area employing the grid for control. Mapping to be on a scale of 1" to 200'.
3. Trenching and bulk sampling on mineralized zones.

Respectfully submitted,



Charles K. Ikona,

P. Eng.

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

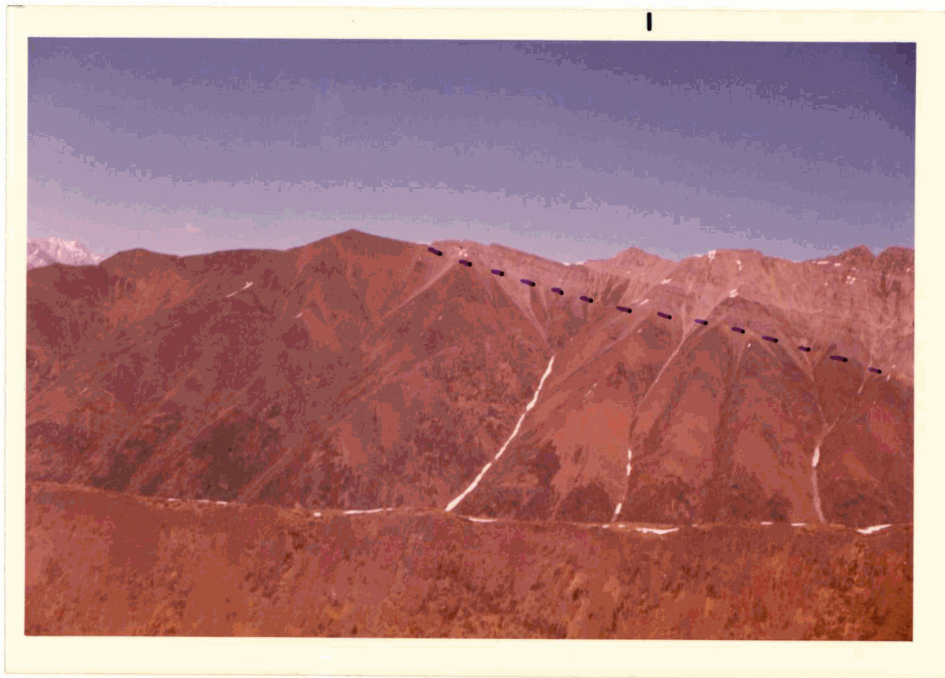
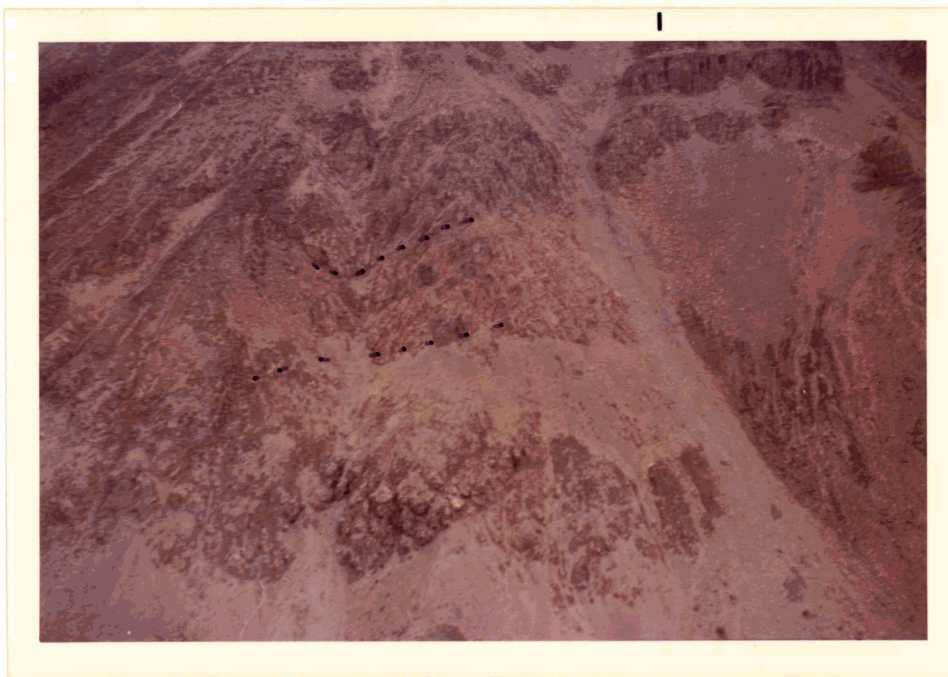


Photo looking north on Dick Group showing central ridge capped by dolomites with underlying shales of the Sheepbed formation (contact dotted)



Showing on Dick #1 claim. Note subdued gossan  
Location of samples 3, 4, and 5

List of Personnel for the DICK Group:

Chuck Ikona	2416 St. John's Port Moody, B.C.	P. Eng.	June 13, 19, July 8
Kevin Milledge	5794 Atlantic Ave., Halifax, N.S.	field hand	Aug. 2 to 5
Mike Toporowski	812 Seafair Place Richmond, B.C.	ass. prospector	Aug. 2 to 5, Aug. 13
Duck Johnny	General Delivery, Ross River, Y.T.	ass. prospector	Aug. 2 to 5
Doug Fulcher	918 Leovista Ave., Vancouver, B.C.	ass. prospector	Aug. 2 to 5, Aug. 13

DICK MINERAL CLAIM GROUP  
Statement of Expenditures  
August 27, 1974.

Direct Costs:

wages	18 man-days	\$ 900.00	
tagging posts	48 claims	384.00	
geologic fees	C. Ikona	440.00	
helicopter support	\$ 199/hour	2,845.70	
geochem samples	55 samples	110.00	
field equip expense	\$ 6.00/man/day	132.00	
camp cost expense	10.00/man/day	<u>220.00</u>	\$ 5,031.70

Pro- Rata General Expense (.090)

equipment supply depreciation	292.46	
contracts and rentals	28.61	
wages ( mob & demob)	760.50	
food	per diem	
fuels	per hour	
helicopter (general)	864.54	
fixed-wing (general)	757.72	
travel and accomodations	58.85	
sundry & administration	522.88	
geochem supplies	33.35	
expediting services	269.32	
air travel & airfreight	<u>117.54</u>	<u>3,705.32</u>

Sub Total

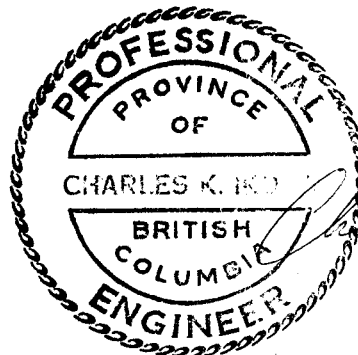
8,737.02

Harman Explorations Ltd fee ( 18.3%)

1,965.98

Total Expenditures on account

\$ 10,703.00

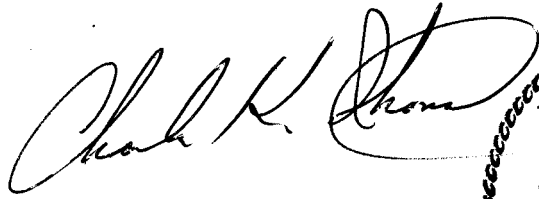


ENGINEERS CERTIFICATE

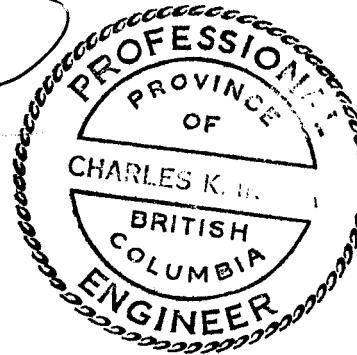
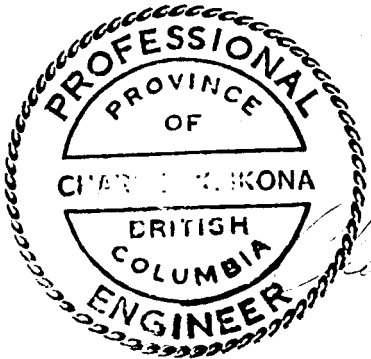
I, CHARLES K. IKONA of 2614 St. John's St., Port Moody, in the Province of British Columbia do hereby certify that:

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.



CANADA) In the matter of a geological and geochemical survey  
 ) and report on the Dick 1-40 mineral claim group  
 ) on behalf of Q.C. Explorations Ltd  
 TO WIT: )

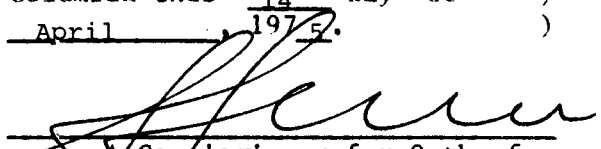
I, Timothy Brock of Harman Management Ltd., 506 - 675 West Hastings street, Vancouver, B.C. do solemnly declare that a geologic mapping, geochemical and prospecting survey program was conducted on the Dick 1-48 mineral claims during the Period June 1 to August 27, 1974.

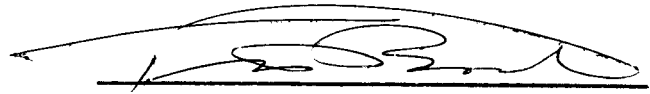
The following expenses were incurred during the course of this work and in the compilation and reporting of the results:

wages	\$ 900.00
geologic fees	384.00
helicopter support	2,845.70
field equipment expense	132.00
camp costs	220.00
tagging posts	440.00
equipment supply	292.46
contracts and rentals	28.61
wages	760.51
food	per diem
helicopter support	864.54
fuels	per hour
fixed wing	757.72
travel and accommodation	58.85
sundry and administration	522.88
geochemical supply	33.35
expediting services	269.32
air travel and air freight	117.54
geochem samples	<u>110.00</u>
Total expenditures:	\$ <u><u>10,703.00</u></u>

And I make this solemn 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 virtue of the Canada Evidence Act.

Declared before me at Vancouver )  
 in the Province of British )  
 Columbia this 14 day of )  
April, 1975. )

  
 Commissioner for Oaths for  
 or Notary Public  
 for the Prov. of B.C.



Direct Cost Invoices

Helicopter and geochemical support data



67

# 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.

ATTN:

CERTIFICATE NO. 27984  
INVOICE NO. 12149  
RECEIVED Aug. 12/74  
ANALYSED Aug. 15/74

SAMPLE NO. :	PPM Lead	PPM Zinc
TOM 7B	58	206
8	58	1148
9	58	1000
10	52	766
11	46	766
12	70	733
TOM 13B	58	550
TOM C 1	79	1388
2	52	45
TOM C 3	44	28
TOM 1 D	40	392
2	40	392
3	50	375
4	56	295
5	68	317
6	50	620
TOM 7 D	74	434
Dick A 1	48	360
2	50	400
3	52	525
4	46	406
5	52	406
6	46	466
7	26	72
8	56	98
9	38	80
10	42	164
11	88	285
12	36	120
13	48	155
14	38	131
15	36	108
16	74	400
17	42	135
18	132	140
19	86	135
20	180	120
21	48	105
22	34	120
Dick A 23	30	92
Std.	60	52



MEMBER  
CANADIAN TESTING  
ASSOCIATION

CERTIFIED BY: *[Signature]*











HEZIDENTURE LTD

ORDER NUMBER	275812
DATE	JUNE 14-74
CUSTOMER'S ORDER	
SALESMAN	R.G. STURGES
TERMS	
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SOLD TO HARMAN MANAGEMENT LTD.  
Box 4509 WHITEHORSE YUKON

SHIPPED TO \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ VIA C-9HFA.

INVOICE

	HARRY CLAIM	1	2		
	DICK CLAIM	1	2		
	DUB CLAIM.	1	9		
		3	3	27	0





ADVENTURE LTD

OUR NUMBER	275810
DATE	JUNE 12-74
CUSTOMER'S ORDER	
SALESMAN	R.G. STURGES
TERMS	
F.O.B.	

SOLD TO: HARMAN MANAGEMENT LTD

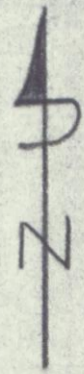
Box 4509, NAITBORO YUKON

SHIPPED TO:







ADDRESS: VIA C-G.M.F.A.

INVOICE

	GAIL CLAIMS (DICK)	1	6	
	HARRY CLAIMS	1	7	
	HARRY & DICK GPS. 33			
		3	3	17.8

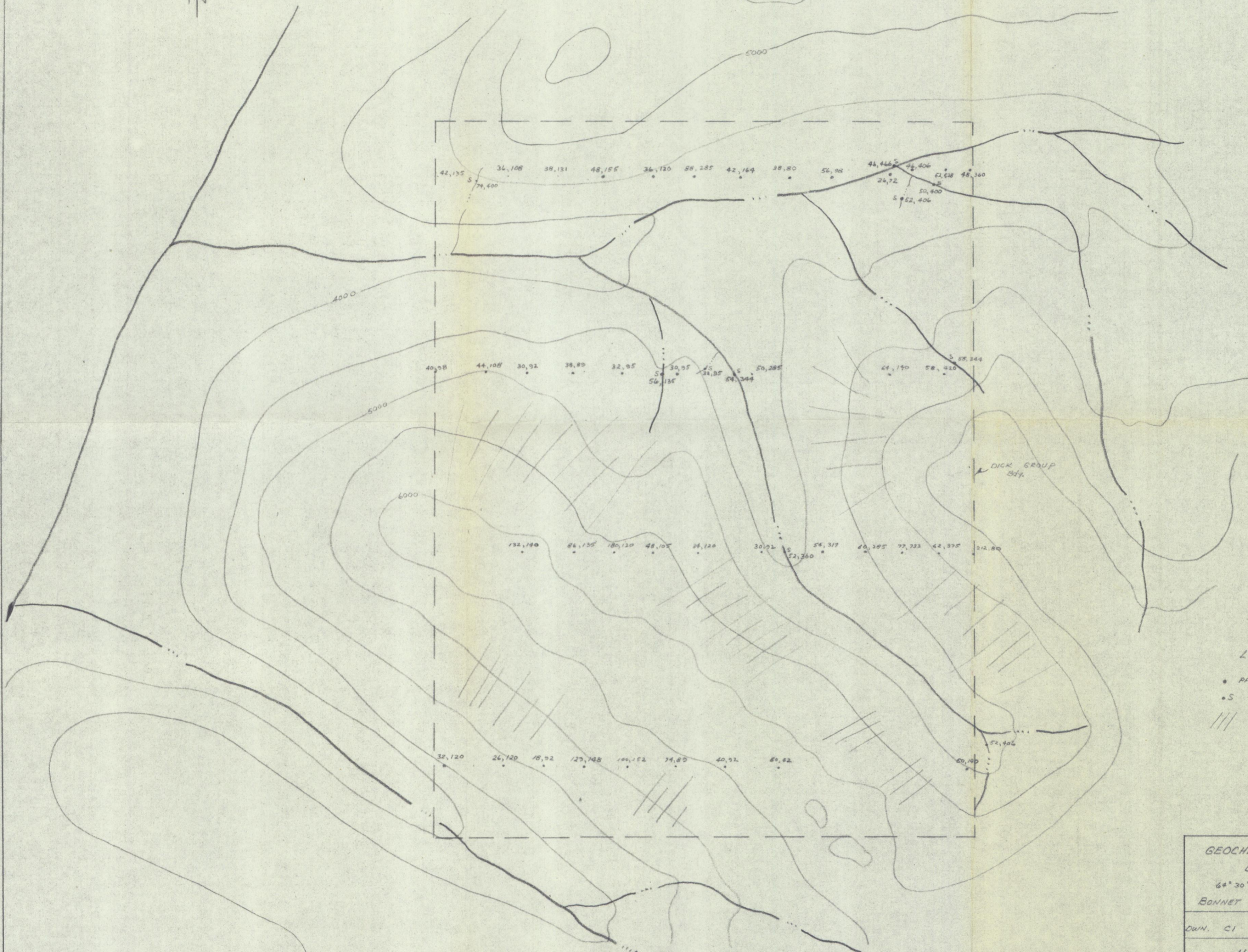
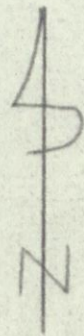


LEGEND

-  LOWER CAMBRIAN Dolomites  
MASSIVE, poorly bedded  
grey to buff weathering  
minor gneisses and shales
-  SHEEPBED FORMATION  
Thinly bedded BROWN-BLACK  
shales and siltstones  
minor interbeds of gne  
sandstones and pebble congl
-  OUTCROP By
-  GEOLOGIC CONTACT
-  STRIKE AND DIP (bedding)
-  MINERALIZED ZONE

GEOLOGY - DICK CLAIMS  
 LAT 64° 30' N. LONG. 132° 45' W  
 BONNET PLUME RIVER AREA Y.T.

OWN: C1	Scale 1"=1000'	AUG. 1979
HARMAN Mgmt. LTD.		



**LEGEND**

- PPM Pb, PPM Zn
- S SITE
- /// Major TALUS Slope No Soil Horizon.

GEOCHEMICAL RESULTS		
DICK CLAIMS		
64° 30' N		132° 45' W
BONNET PEUME RIVER AREA		
OWN. CI	Scale 1" = 1000'	AUG 1974
HARMAN MGMT. LTD.		