

GEOLOGICAL AND GEOCHEMICAL REPORT



on the

RUM MINERAL CLAIMS

lat 64° 27' N

Long 132° 20' W

for

HARMAN MANAGEMENT LTD.

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

\$ 14,400.00

W. Sinclair

A/ Resident Geologist or
~~Resident Mining Engineer~~

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

[Signature]

Charles K. Ikona, P. Eng.
Commissioner of Yukon Territory

August 29, 1974



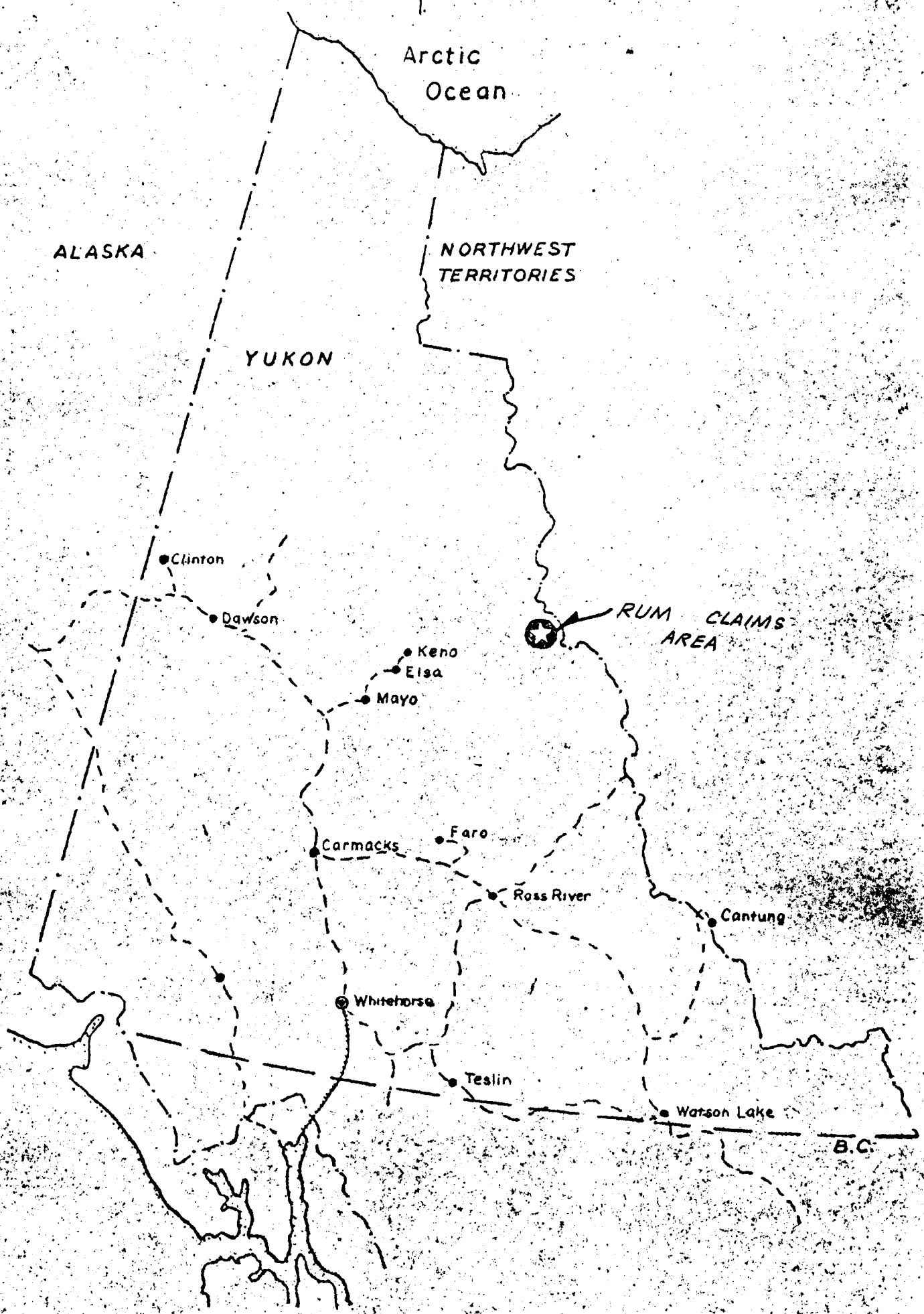
table of contents

<u>Volume I</u>	<u>page</u>
area location map	1
property location map	2
introduction	3
location and access	3
topography	3
mineralization	4
geochemistry	5
method of analysis	5
discussion of results	5
conclusions and recommendations	6
personnel	7
statement of expenditures	8
engineer's certificate	9
direct costs data	10
maps	pocket

Volume II

A) statement of general expenditures and notes

B) support receipts



ALASKA

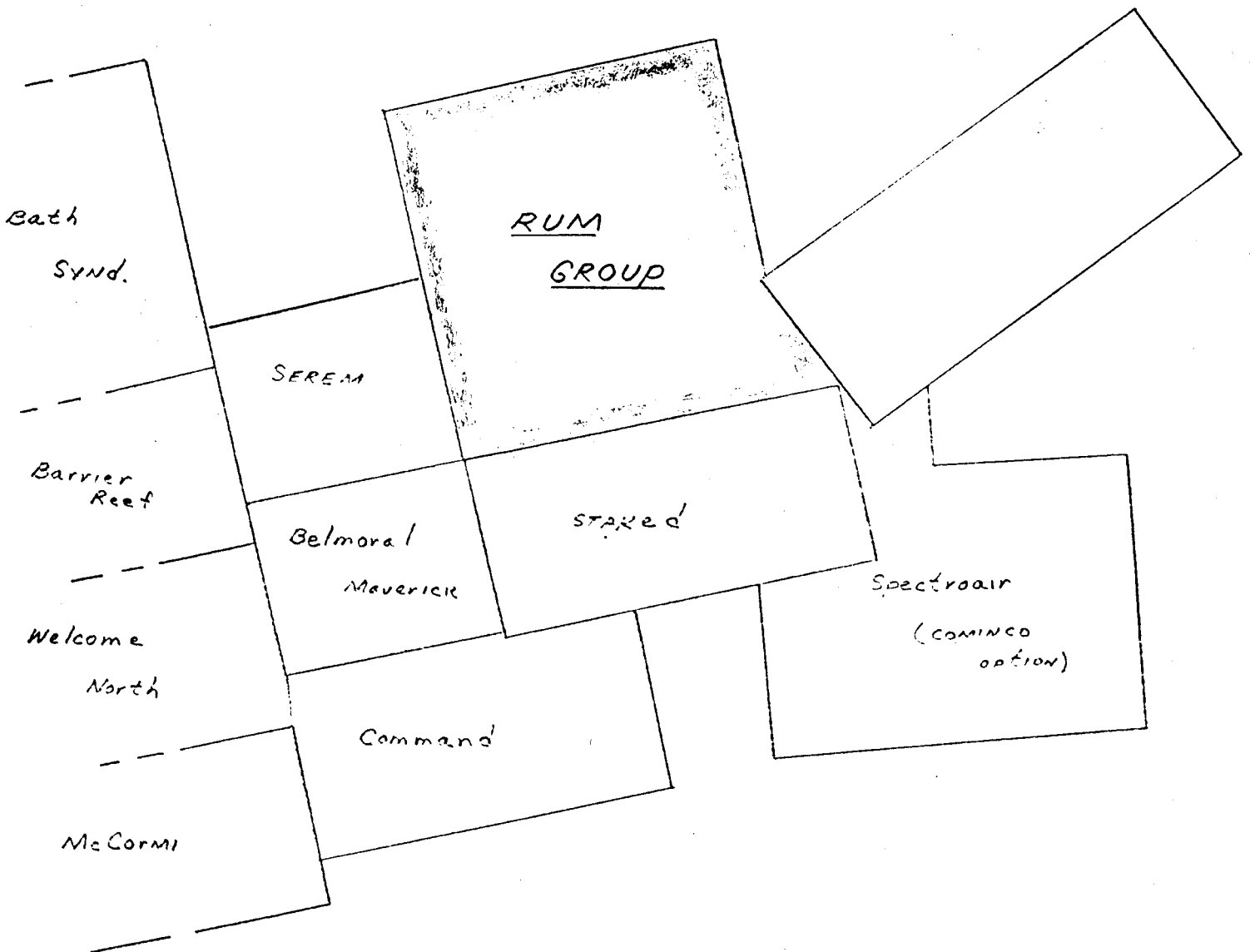
Arctic Ocean

NORTHWEST TERRITORIES

YUKON

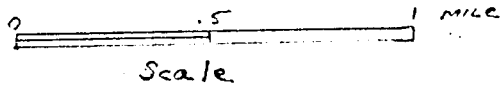
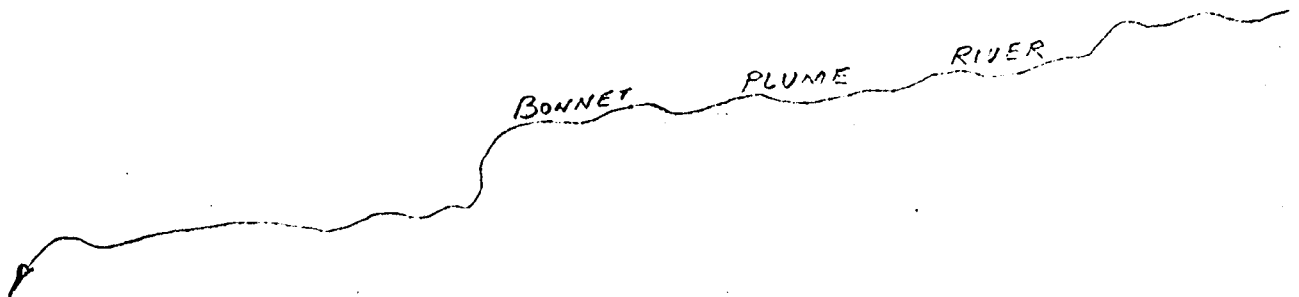
RUM CLAIMS AREA

B.C.



SKETCH

Approx. claim Relations
Bonnet Plume River Area



Introduction

The Rum Claim Group is located in the Mayo Mining District of the Yukon Territories and consists of 58 semi-contiguous mineral claims.

Work consisting of prospecting, claim tagging, geologic mapping and geochem sampling (where applicable) was done on this group in July 1974.

This program was conducted under the supervision of the author.

List of Claims

Claim Name: Rum 1 - 58
 Grant Numbers: Y 85764 - Y85821
 Expiry Date: October 3, 1974
 NTS Sheet: 106-C-8

Location and Access

The claim group is located between Goz and Duo Creeks at approximately $64^{\circ} 27' N$, $132^{\circ} 20' W$.

Access to the property is by fixed wing aircraft from Mayo, Y.T. to Goz Lake, a distance of 123 miles. From this point it is 6 miles to the property by helicopter.

Topography

Elevations vary from 4500' to over 6500' above sea level. Sparse brush and moss are located at the lower elevations. Topography is extremely rugged with cliffs of greater than 500 feet in height located on the ridges.

Outcrop covers approximately 50% of the claim group with talus accounting for another 25%. The remainder is covered with moss growing on a poorly developed soil profile.

To the north, a band of grey Dolomite outcrops. Striking northwest and dipping south at approximately 30 degrees, this unit appears to underly the buff weathering Dolomite. This Dolomite, in general, is of a sugary-crystalline texture and contains some minor calcite stringers. In places, a positive reaction for secondary zinc has been obtained in this unit and some minor Sphalerite and Galena found in float.

North of this unit lies a fault controlled contact with the black shales of the Road River Formation. This unit is badly shattered and typically demonstrates a fairly high background in zinc.

Mineralization

To date, two types of mineralization have been located on the Rum Group.

The first is within the Lower Cambrian Dolomites on the southwest corner of the group. In this case, minor Sphalerite and Galena occasionally accompany quartz in open space filling of fractures and vugs. This mineralization is possibly a strike extension of mineralization located on Barrier Reef and Serem properties to the west. However, the mineralization appears to be decreasing to the east and on the Rum Group, is probably of too limited extent to be of economic importance.

The second type of mineralization occurs within the grey Dolomite unit striking northwest through the northern half of the claim group. Secondary zinc has been located in outcrops over a strike length of several thousand feet and float, containing minor Sphalerite and Galena, has been found on Rum #5. Two samples were taken for assay from this area. Sample #1 was a chip sample from several large pieces of float. Sample #2 was a chip sample across approximately thirty feet of face exposed in a creek bed on claim Rum #8.

Both samples demonstrated a positive reaction with one zinc sensitive field geochem solution.

Sample results are:

		Pb%	Zn%
#65805	grab from talus boulders	.03	.02
#65806	20' chip in creek	tr.	.02

Geochemistry

The high percentage of the property covered by either outcrop or talus has a very restrictive effect on the scale of geochemical survey possible or informative.

Where possible samples were collected and placed in kraft bags to be air dried in camp and analysed.

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 geochemical program fielded high results over the area underlain by the Road River shales in the Northeastern corner of the property. This is not unexpected due to the high background nature of this unit.

Some scattered highs were also returned from the lower Cambrian dolomites. This unit is very well exposed

and prospecting has shown minor lead and zinc mineralization accompanying quartz open space filling. This mineralization is not strong enough to be of economic interest but could easily account for the scattered geochemical highs.

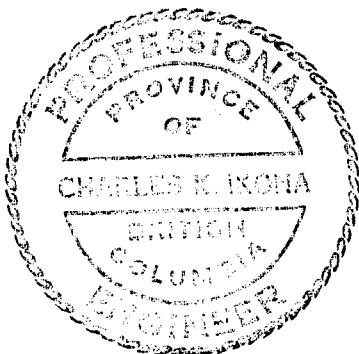
Geochem results from the grey dolomite band exposed between the lower Cambrian dolomited and the Road River shales are slightly higher than background for the area, however, again mineralization which could account for this has been located in the unit. This mineralization assayed in the .02% Pb and Zinc range and therefore is in the sub economic range.

Conclusions & Recommendations

The Rum claim group is underlain by dolomites and shales of paleozoic age. The claim group has excellent exposure and prospecting has not yielded any mineralization approaching economic grade.

Explanations are readily available for any geochem results of above back ground values.

It is therefore concluded that little or no further expenditure is warranted on the Rum group at this time.



Respectfully submitted,

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

Charles K. Ikona P. Eng.

List of personnel for the RUM Group:

Chuck Ikona	2416 St. John's Port Moody, B.C.	P. Eng.	July 3.5 days, Aug. 2 days
Steve Toporowski	812 Seafair Place Richmond B.C.	ass. prospector	July 9 to 15
Kevin Milledge	5794 Atlantic Ave., Halifax, N.S.	field hand	July 9 to 15
Vic Guinet	RR #1 Cottonwood Island Prince George, B.C.	prospector	July 11 to 15
Doug Fulcher	918 Leovista Ave., Vancouver, B.C.	ass. prospector	July 11 to 15
Hugh Brock	57 West Bench Drive Penticton, B.C.	ass. prospector	July 11 to 15



Photo looking South east on Rum Group showing contact between two dolomite units and fault contact with Road River shales



Photo looking west towards head of circ
Showing lower Cambrian dolomites

RUM MINERAL CLAIM GROUP
Statement of Expenditures
August 27, 1974

Direct Costs:

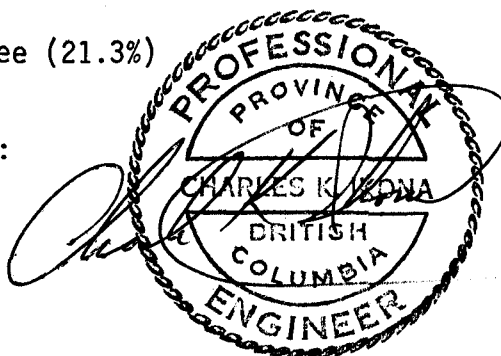
wages	23 man/days	\$ 1,150.00	
tagging posts	58 claims	464.00	
geologic fees	C. Ikona	550.00	
helicopter support	(\$ 199/hour)	1,691.50	
geochem samples	est.	200.00	
field equipment expense	\$ 6.00/man/day	168.00	
camp cost expense	10.00/man/day	<u>280.00</u>	\$ 4,503.50

Pro-Rata General Expense (.11) costs:

equipment supply depreciation expense	362.41	
contracts and rentals	34.97	
wages (mob & demob)	929.50	
food	per diem	
fuels	per hour	
helicopter (general)	1,056.66	
fixed wing (general)	925.55	
travel and accomodations	71.93	
sundry & administration	639.03	
geochem supplies	40.77	
expediting services	329.17	
air travel and airfreight	<u>143.66</u>	<u>4,533.65</u>
sub total		9,037.15
Harman Explorations Ltd fee (21.3%)		<u>2,446.85</u>

Total Expenditures to date:

\$11,484.00

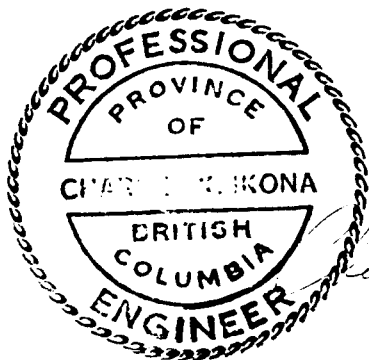


ENGINEERS CERTIFICATE

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.

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

Direct Cost Invoices

Helicopter and geochemical support data

JULY 26, 1974.

8404-5

ASSAY CERTIFICATE

WHITEHORSE ASSAY OFFICE LTD.
BOX 4518 WHITEHORSE Y. T.
PHONE 667 2694 Y1A 2R8

SAMPLE RECEIVED FROM

HARMAN MANAGEMENT

SAMPLE NO.	GOLD Oz. Per Ton	SILVER Oz. Per Ton	LEAD	ZINC				
65802			.03	.35				
65803			TR	1.14				
65804			.01	.05				
65805			.03	.02				
65806			TR	.02				

ASSAYER. H. Hayward for M. Spalding

WHITEHORSE ASSAY OFFICE
 BOX ~~55~~ 4518
 WHITEHORSE, YUKON

Samples from: HARMAN MANAGEMENT

Lot. No.: A-667-40

ALL RESULTS - P.P.M.

	SAMPLE #	Pb	Zn		SAMPLE #	Pb	Zn	
0	RUM A-1	28	272					
	SILT 2-A	20	120					
	RUM 3-A	32	576					
0	4-A	16	192					
	5-A	16	8					
	6-A	12	2688					
	7-A	20	112					
	8-A	32	132					
	9-A	92	304					
	10-A	24	200					
	B-1(s)	24	272					
	B-2	20	1728					
	B-3	20	224					
	B-4	24	352					
	B-5	20	376					

ASSAY CERTIFICATE

E. No.	Au	Ag	Fe	Zn		SAMPLE No.	Au	Ag				
2			.03	.25	—	Headwaters CORN CREEK	J.T. show 20' chip			sample	on	bed surface
3			TR	1.14	—	"	J.T. show 10' vert			"	of	bed showing Zn.
4			.01	.05	—	"	grab			sample	talus	some nit.
5			.03	.02	—	Rum	grab			of	talus	showing Zn soln. pos Reaction
6			TR	.02	—	Rum	20' chip			at	outcrop	nick of grey dolomite.
5			(PPM PPM)									
RUM												
3-A RUM			32	576								
6-A RUM			12	2688								
-1(S)			24	272								
-2			20	1728								
-4			24	352								
-5			20	376								
10			36	432								
12			20	688								
14			24	496								
21			28	736								
T-7A			24	280								
RUM												

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

Samples from: HARMAN MANAGEMENT

Lot. No.: A-667-40

ALL RESULTS - P.P.M.

	SAMPLE #	Pb	Zn		SAMPLE #	Pb	Zn
0	RUM A-1	28	272				
	SILT 2-A	20	120				
	RUM 3-A	32	576				
0	4-A	16	192				
	5-A	16	8				
	6-A	12	2688				
	7-A	20	112				
	8-A	32	132				
	9-A	92	304				
	10-A	24	200				
	B-1(s)	24	272				
	B-2	20	1728				
	B-3	20	224				
	B-4	24	352				
	B-5	20	376				
	B-6	24	400				
	B-7	28	624				
	B-8	28	176				
RUM	B-10	36	432				
	B-11	24	144				
	B-12(s)	20	688				
	B-13	20	528				
	B-14	24	496				
	B-15	24	232				
	B-16	32	128				
	B-17	24	208				
RUM	B-18	20	232				
	B-19	16	40				
	B-20	20	24				
	B-21	28	736				
HART	1-A	16	64				
	2-A	16	64				
	3-A	20	160				
	4-A	24	72				



LEGEND

- BLACK shattered shales of Road River Formation
- Limestone, light grey Ord-Sil age?
- Light grey, massively bedded porous dolomite
- LOWER CAMBRIAN DOLOMITES grey, but weathering, part psalitic minor quartzite
- BROWN-BLACK thinly bedded shales probably Helminian
- geologic contact
- ⋯ outcrop bdy
- claim bdy (approx.)
- ~ fault
- geochem sta ppm Pb ppm Zn
- x MINOR Pb, Zn Mineralization

GEOLOGY AND GEOCHEMISTRY
 RUM CLAIM GROUP
 64°27'N 132°20'W
 BONNET PLUME RIVER AREA Y.T.

OWN. C1	Scale 1"=1000'	Aug 1974
HARMAN MGMT. LTD.		