

MAP NO.: ASSESSMENT REPORT X
115 A 11 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092129
MINING DISTRICT: WHITEHORSE
TYPE OF WORK: GEOCHEMISTRY

REPORT FILED UNDER: Archer, Cathro and Associates (1981) Ltd.
DATE PERFORMED: September 2-9, 1987 DATE FILED: March 10, 1988
LOCATION: LAT.: 60⁰44'N AREA: Kathleen River
LONG.: 137⁰20'W VALUE \$: 11,000.00
CLAIM NAME & NO.: HOPE 1-72 YA96791-862

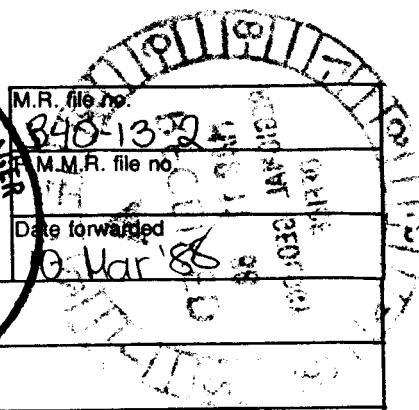
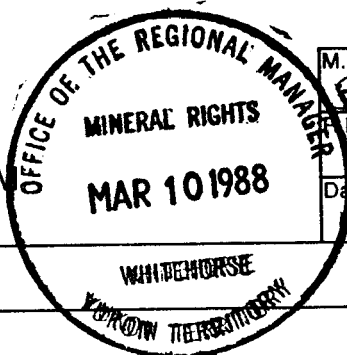
WORK DONE BY: C.A. Main

WORK DONE FOR: Archer, Cathro and Associates (1981) Ltd.

DATE TO GOOD STANDING:	REMARKS: #21 REX
	The claims cover an Alaskan-type zoned ultramafic intrusion. A
	serpentinized area containing asbestos is marked by circular aero-
	magnetic low soil geochemistry for platinum, palladium, copper, and
	nickel returned two weakly anomalous copper values.



TRANSMITTAL FORM



From Mining Recorder at: Whitehorse
To Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

<input type="checkbox"/> NEW APPLICATION FOR PLACER LEASE TO PROSPECT	Name	
<input type="checkbox"/> RENEWAL APPLICATION PLACER LEASE TO PROSPECT	Name	Lease no.
<input type="checkbox"/> AFFIDAVIT OF EXPENDITURE ON PLACER LEASE	Name	Lease no.
<input type="checkbox"/> SECURITY DEPOSIT		
<input type="checkbox"/> FINANCIAL ABILITY		
<input type="checkbox"/> ASSIGNMENT OF PLACER LEASE NO.	From	To
<input type="checkbox"/> GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT.	Owner	
<input type="checkbox"/> DIAMOND DRILL LOGS	Claims	Claim sheet no.
<input checked="" type="checkbox"/> QUARTZ ASSESSMENT REPORT	Claims <u>Hope 1-72</u>	Claim sheet no. <u>115-A-11</u>
	Type of report <u>Geochemical</u>	Submitted by <u>Archer, Cathro & Assoc.</u>
	Cls. work performed on <u>Hope 1-72</u>	\$ req. for ren. application <u>11,000.00</u>

M Southwick
Signature

092129

Date returned
7 April, 1988

REPLY ACTION

Approved for amount required

J. Jenner
Signature

092129

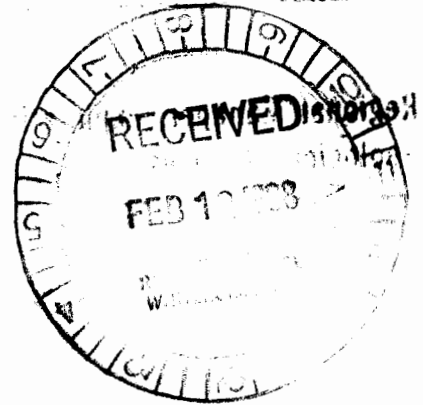
ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

1016-510 WEST HASTINGS STREET
VANCOUVER, B. C. V6B 1L8

RECEIVED
FEB 12 1988
WHITEHORSE
(403) 667-2568



REPORT ON
GEOCHEMICAL SURVEY
HOPE PROPERTY
HAINES JUNCTION, YUKON

Hope 1-72 YA96791-YA96862

Latitude 60°44'N Longitude 137°20'W NTS 115A/11

Whitehorse Mining District

KLUANE JOINT VENTURE

C.A. MAIN, B.Sc

January, 1988

Work performed between September 2 and 9, 1987

092129

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 11,000.00

J. J. Gorman

for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

1101200

TABLE OF CONTENTS

	<u>PAGE</u>
Summary and Recommendations	1
Introduction	3
Property, Location and Access	4
History	5
Geology and Mineralization	6
Geochemical Survey	7

APPENDICES

Appendix I	Statement of Qualifications
Appendix II	Geochemical Results
Appendix III	Platinum Group Metal Potential of the Hope Property, C.J. Westerman, September, 1987

FIGURES

1	Location Map	Following Page 4
2	Compilation Map, Hope property	Following Page 6

SUMMARY AND RECOMMENDATIONS

The Hope property is located 8 km south of Haines Junction, Yukon Territory, adjacent to the all-weather road to Haines, Alaska. The property is underlain by a large ultrabasic intrusion of uncertain age. This intrusion is host to the small Rex asbestos occurrence that had been trenched and drilled during the 1960's and 1970's. Outcrop is very limited and most of the property is unexplored. Other ultrabasic bodies in the region, such as that which hosts the former Wellgreen Mine, are related to potentially economic platinum group metal occurrences associated with nickel-copper mineralization.

During 1987, the property was explored with a reconnaissance geochemical survey with sample intervals of 100 m on lines 900 m apart. The results of this sampling were low in copper, nickel, gold, platinum and palladium, probably because of thick glacial till cover. Further geochemical sampling is not warranted.

The potential for nickel-copper and related platinum, palladium and gold mineralization requires further exploration. As recommended by consulting geologist C.J. Westerman, whose report is appended, the property warrants geophysical surveys followed by drilling should initial results prove favorable.

The following program is proposed (modified from Phase I of Westerman's report to exclude further geochemical surveys which have been shown to be unsuccessful):

1. Linecutting, 119 km @ \$400/km	\$47,600
2. Geophysics, VLF-EM, Magnetometer, Gradiometer..	14,400
3. Geophysical report	2,000
4. Field supervision (Archer, Cathro)	3,000
5. Assessment fees	2,000
Plus 10% contingency	<u>6,000</u>
TOTAL -	<u>\$75,000</u>

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



C.A. Main, B.Sc.

INTRODUCTION

The Hope property hosts a large ultrabasic body found as a few scattered outcrops and outlined by a large aeromagnetic anomaly. The property almost surrounds the Rex asbestos showing, which occurs within the ultrabasic, and is protected by the six Rex and Asbestos claims. The Hope property was staked by Kluane Joint Venture [Chevron Minerals Ltd. (50%) and All-North Resources Ltd. (50%)] because of its platinum-nickel-copper potential.

The 1987 exploration program consisted of a geochemical and prospecting survey managed by Archer, Cathro & Associates (1981) Limited with Charles A. Main as project manager. Field work was performed by M. Boulding and R. McGinn. An independent evaluation was subsequently prepared by C.J. Westerman in September, 1987, a copy of which is attached as Appendix III.

PROPERTY, LOCATION AND ACCESS

The property consists of 72 quartz mineral claims recorded at the Whitehorse Mining Recorder's office as follows:

<u>NAME</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>
Hope 1-72	YA96791-YA96862	February 11, 1988*

*This does not include assessment credits filed for 1987 work.

The Hope property is located 8 km south of Haines Junction, Yukon at latitude 60°44'N and longitude 137°20'W within map sheet 115A/11, as shown on Figure 1 on the following page. A map showing the position of the individual claims is shown as Figure 2 of Westerman's report. The Hope property is adjacent to the all-weather, paved road to the seaport of Haines, Alaska, some 220 km to the south. Haines Junction is 135 km west of Whitehorse, Yukon. Access to the property is by dirt road which departs the main highway at Quill Creek.

The property occupies relatively flat rolling valley bottoms with elevations ranging from 750 to 900 m. Vegetation consists of stunted jack pine.

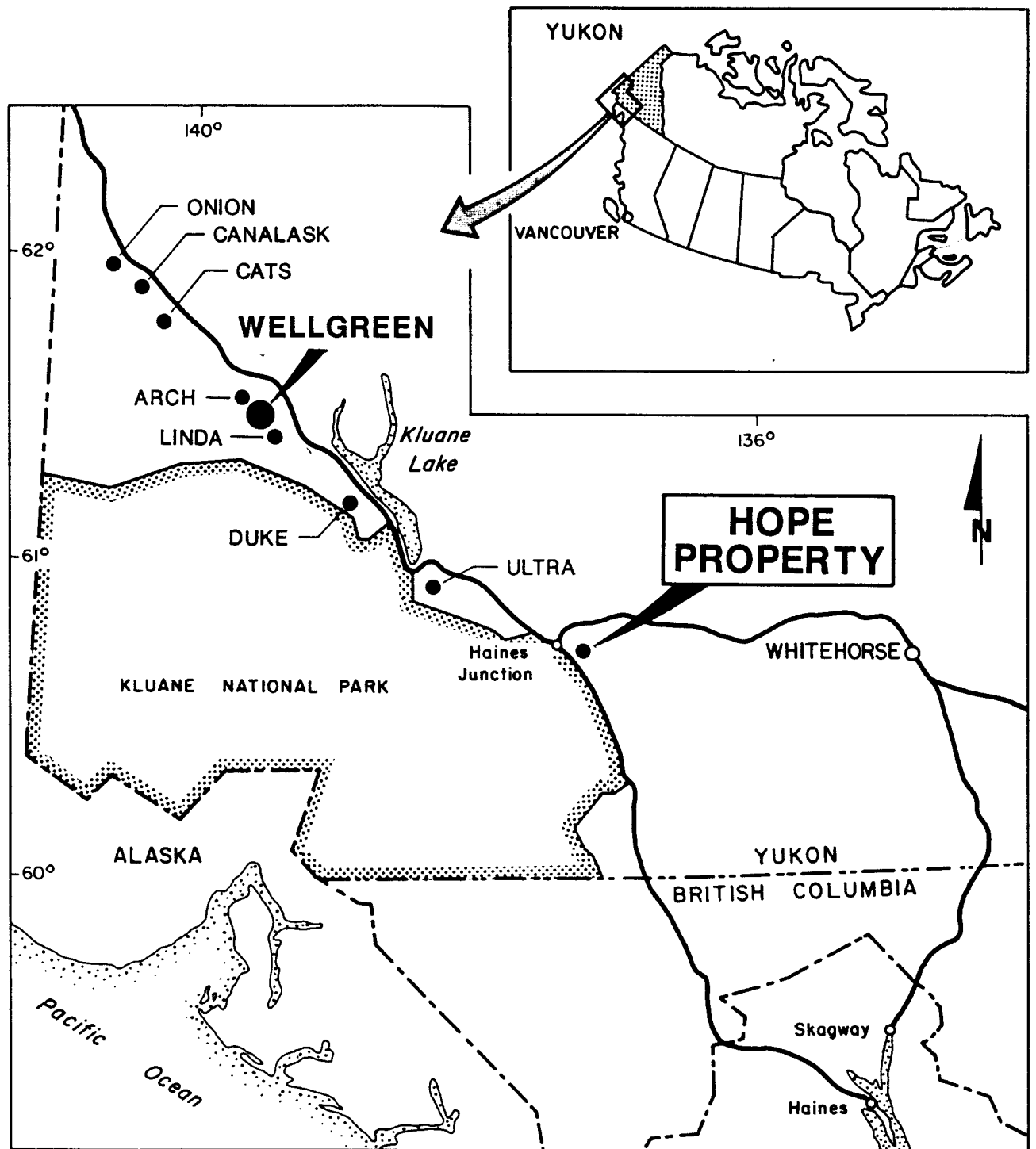


Figure 1
LOCATION MAP
HOPE PROPERTY
 YUKON, CANADA
 KLUANE JOINT VENTURE

HISTORY

The vicinity of the Hope claims has been extensively explored for asbestos. Initially staked in 1953 by prospectors and optioned to Bell Asbestos Ltd., which undertook preliminary surveys, the property was restaked by the same prospectors as the Rex claims in 1958 and optioned in 1959 to Canex, which conducted a magnetic survey and trenched; in 1960 to Nicolet Asbestos Corp.; in 1961 to Spooner Minerals and Oil Ltd., which trenched; and, in 1963 to Cominco, which conducted mapping, magnetic surveys and drilled five holes (253 m). The property was acquired in 1965 by Golden Gate Exploration Ltd., which drilled eight holes (700 m). In 1966, Newmont conducted an airborne magnetic survey and performed mill testing of asbestos mineralization. In 1969, Golden Gate drilled 365 m of rotary holes and in 1973 Asarco diamond drilled eight holes (614 m) under option and did further test milling. Golden Gate drilled twelve percussion holes in 1978 and Asarco drilled four holes (640 m) in 1979. All of the above work was performed on the six remaining claims which are presently held by Golden Gate Exploration. Apart from, perhaps, airborne magnetic surveys, there has been little work done on the area of the Hope property.

GEOLOGY AND MINERALIZATION

The Hope property lies east of the Shakwak Fault, a major terrane boundary with latest movement in a right lateral sense. This separates it from Wrangellia and other terranes which lie to the west of the Shakwak Fault, as shown in GSC Open File 831 (1982). The Hope property apparently lies in the Gravina-Nisutlin terrane, which consists mainly of the Dezadeash group of Jurassic to Cretaceous metasediments, however, the extensive glacial till in the area of the Hope claims makes geological mapping difficult. There is a possibility that the Hope property occurs in an exotic slice of Wrangellia.

Ultrabasic intrusive rocks consisting of mixed peridotite-dunite and minor gabbro have been identified from one outcrop on the Hope 29 claim as shown on Figure 2 on the following page. Other outcrops of similar ultrabasic rocks occur on the Rex claims to the east and one outcrop of chlorite schist has been identified about 1 km northeast of the Hope claims. The age of these rocks is not known.

The ultrabasic rocks are variously but weakly serpentinized and on the Rex claims carry a minor amount of asbestos in two sets of cross fractures. No mineralization, other than about a 15% magnetite content in the ultrabasic, has been observed on the Hope claims.

The ultrabasic could belong to one of three potentially economic types which are found regionally in southwest Yukon and Alaska. The most important possibility is that the ultrabasic is similar to those in the Kluane ultramafic belt, which lies within Wrangellia, just southwest of the Shakwak Fault. This belt hosts the Wellgreen nickel-copper deposit which is being explored extensively for platinum. It is also possible that the ultrabasic is related

to the Cretaceous "Alaska-type" zoned ultrabasics or the younger Tertiary "La Perousse" ultrabasics. Each of these types can contain important quantities of noble and precious metals.

GEOCHEMICAL SURVEY

A grid for a geochemical survey was established on the property by using previously established claim lines which are blazed and well flagged. One cross line was established to provide control. A total of 157 samples was collected at 100 m intervals along the claim lines, which are approximately 900 m apart. The sample sites are shown on Figures 2, following page 6. The results of analysis are shown in Appendix II. Since the results in all metals are consistently low, with the exception of two adjacent samples with values of 107 and 112 ppm copper respectively, no plotting of the results was considered necessary.

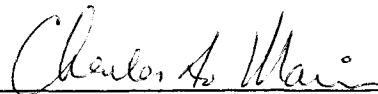
The property was prospected during the geochemical survey but nothing of interest was discovered due to the lack of outcrop.

APPENDIX I
AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

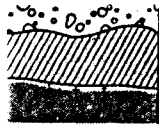
I, Charles A. Main, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1971 with a B.Sc. majoring in Geological Sciences and Chemistry.
2. I have been actively engaged as a geologist in mineral exploration since 1971 and as a partner of Archer, Cathro & Associates (1981) Limited since June 1, 1981.
3. I have personally participated in or supervised the field work reported herein.



Charles A. Main, B.Sc.

APPENDIX II
GEOCHEMICAL RESULTS

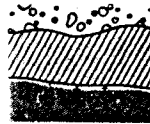


REPORT: 127-7483

PROJECT: HOPE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu ppm	Ni ppm	Au ppb	Pt ppb	Pd ppb
S1 R16501		26	24	<5	30	4
S1 R16502		22	24	45	25	<2
S1 R16503		18	23	<5	25	4
S1 R16504		25	24	<5	50	6
S1 R16505		33	27	<5	25	10
S1 R16506		21	24	<5	25	4
S1 R16507		13	24	<5	<15	6
S1 R16508		30	32	<5	<15	10
S1 R16509		24	28	<5	25	10
S1 R16510		19	23	<5	25	10
S1 R16511		25	25	<5	30	10
S1 R16512		23	27	5	25	10
S1 R16513		20	24	<5	50	4
S1 R16514		24	26	<5	<15	10
S1 R16515		21	26	<5	25	2
S1 R16516		28	27	<5	<15	10
S1 R16517		24	25	<5	40	10
S1 R16518		31	27	<5	<15	4
S1 R16519		24	28	<5	<15	10
S1 R16520		35	30	<5	<15	4
S1 R16521		24	24	<5	20	<2
S1 R16522		22	27	<5	<15	4
S1 R16523		22	27	<5	20	<2
S1 R16524		23	28	<5	20	<2
S1 R16525		28	30	<5	25	6
S1 R16526		27	28	<5	<15	4
S1 R16527		14	12	<5	<15	4
S1 R16528		29	28	10	40	<2
S1 R16529		27	28	<5	<15	2
S1 R16530		30	30	<5	<15	4
S1 R16531		24	27	<5	<15	<2
S1 R16532		25	30	<5	25	4
S1 R16533		34	29	<5	20	4
S1 R16534		23	26	<5	25	4
S1 R16535		26	30	<5	<15	4
S1 R16551		23	22	<5	<15	2
S1 R16552		24	27	<5	25	10
S1 R16553		23	24	<5	25	4
S1 R16554		23	30	<5	40	4
S1 R16555		31	30	<5	<15	4



REPORT: 127-7483

PROJECT: HOPE

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ni PPM	Au PPB	Pt PPB	Pd PPB
S1 R16556		29	30	160	15	10
S1 R16557		21	27	<5	<15	4
S1 R16558		47	31	<5	20	6
S1 R16559		24	40	<5	20	4
S1 R16560		23	28	<5	20	10
S1 R16561		22	30	<5	15	<2
S1 R16562		22	28	<5	<15	4
S1 R16563		25	29	<5	20	4
S1 R16564		27	28	<5	<15	2
S1 R16565		25	28	5	<15	4
S1 R16566		31	27	<5	<15	<2
S1 R16567		28	30	<5	<15	2
S1 R16568		23	28	<5	<15	2
S1 R16569		24	28	<5	<15	4
S1 R16570		25	30	15	<15	<2
S1 R16571		22	26	<5	<15	10
S1 R16572		22	30	<5	<15	10
S1 R16573		22	24	<5	<15	10
S1 R16574		24	25	<5	<15	10
S1 R16575		23	26	<5	15	10
S1 R16576		27	25	<5	<15	<2
S1 R16577		20	25	<5	15	4
S1 R16578		22	26	<5	25	10
S1 R16579		28	29	10	<15	4
S1 R16580		25	28	<5	<15	10
S1 R16581		26	30	<5	<15	8
S1 R16582		23	30	<5	<15	3
S1 R16583		26	29	<5	<15	2
S1 R16584		23	23	<5	<15	4
S1 R16585		32	23	<5	<15	4
S1 R16586		22	27	5	<15	2
S1 R16587		29	28	5	25	15
S1 R16588		32	28	<5	25	10
S1 R16589		32	28	5	<15	10
S1 R16590		44	35	<5	<15	10
S1 R16591		29	28	<5	<15	10
S1 R16592		32	38	<5	<15	8
S1 R16593		22	27	<5	<15	10
S1 R16594		34	30	<5	<15	10
S1 R16595		44	32	<5	<15	10

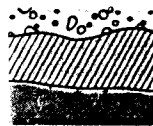


REPORT: 127-7483

PROJECT: HOPE

PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ni PPM	Au PPR	Pt PPR	Pb PPR
S1 R16596		28	27	<5	<15	<2
S1 R16597		30	28	<5	<15	3
S1 R16598		46	34	<5	<15	10
S1 R16599		38	31	<5	<15	4
S1 R16600		39	30	<5	<15	4
S1 R16601		34	30	<5	<15	2
S1 R16602		32	30	<5	<15	4
S1 R16603		59	32	<5	<15	6
S1 R16604	★ {	107	55	10	<15	10
S1 R16605		112	55	5	<15	6
S1 R16606		40	32	5	<15	2
S1 R16607		46	34	<5	<15	10
S1 R16608		41	32	<5	<15	4
S1 R16609		35	28	<5	<15	4
S1 R16610		33	29	<5	<15	2
S1 R16611		38	29	<5	<15	4
S1 R16612		29	29	<5	<15	<2
S1 R16613		35	32	30	<15	3
S1 R16614		37	33	<5	<15	6
S1 R16615		34	31	<5	<15	6
S1 R16616		28	30	<5	<15	4
S1 R16617		23	26	<5	<15	4
S1 R16618		24	28	<5	<15	<2
S1 R16619		26	27	<5	<15	4
S1 R16620		20	28	<5	<15	10
S1 R16621		26	28	<5	<15	6
S1 R16651		47	31	<5	<15	3
S1 R16652		39	33	<5	<15	4
S1 R16653		36	36	<5	20	10
S1 R16654		43	36	<5	15	4
S1 R16655		26	28	<5	20	4
S1 R16656		26	28	<5	<15	2
S1 R16657		22	26	<5	<15	2
S1 R16658		26	28	<5	<15	3
S1 R16659		26	26	<5	<15	<2
S1 R16660		45	34	<5	<15	<2
S1 R16661		28	28	10	20	6
S1 R16662		33	28	<5	<15	2
S1 R16663		27	28	<5	<15	2
S1 R16664		22	28	<5	<15	2



REPORT: 127-7483

PROJECT: HOPE

PAGE 4

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ni PPM	Au PPB	Pt PPB	Pd PPB
S1 R16665		26	28	5	<15	4
S1 R16666		20	26	<5	<15	4
S1 R16667		22	27	<5	<15	4
S1 R16668		22	30	<5	<15	4
S1 R16669		23	30	<5	15	<2
S1 R16670		27	30	<5	25	3
S1 R16671		25	29	<5	<15	4
S1 R16672		24	24	<5	<15	4
S1 R16673		23	27	<5	<15	4
S1 R16674		22	27	<5	<15	4
S1 R16675		24	30	<5	15	3
S1 R16676		23	26	5	20	10
S1 R16677		23	25	<5	<15	4
S1 R16678		31	30	<5	<15	<2
S1 R16679		23	28	<5	<15	4
S1 R16680		36	28	<5	<15	<2
S1 R16681		27	30	<5	<15	2
S1 R16682		26	27	<5	<15	4
S1 R16683		23	28	5	<15	<2
S1 R16684		33	30	<5	<15	<2
S1 R16685		24	28	<5	<15	6
S1 R16686		29	40	<5	<15	6
S1 R16687		35	38	<5	<15	10
S1 R16688		22	29	<5	<15	2
S1 R16689		21	25	<5	<15	4
S1 R16690		27	28	<5	<15	4
S1 R16691		23	28	<5	<15	4
S1 R16692		24	28	<5	<15	2
S1 R16693		20	29	<5	<15	4
S1 R16694		38	31	<5	<15	2
S1 R16695		27	26	<5	15	<2
S1 R16696		26	28	<5	20	4
S1 R16697		36	29	<5	15	6
S1 R16698		21	25	<5	<15	10
S1 R16699		19	26	10	<15	4
S1 R16700		23	28	<5	40	4
R2 R16622		14	665	10	<15	6

APPENDIX III

PLATINUM GROUP METAL POTENTIAL OF THE HOPE PROPERTY

C.J. WESTERMAN, SEPTEMBER, 1987

PLATINUM GROUP METAL POTENTIAL

of

**THE HOPE PROPERTY
Haines Junction - Yukon**

a preliminary report for

IGF METALS INC.

by

C.J. WESTERMAN, Ph.D., F.G.A.C.

Consulting Geologist

September 22, 1987

CONTENTS

	Page
Summary	1
Introduction	1
Preamble	1
Location and Access	2
Property Definition	2
History	4
References	4
Geology and Mineralization	6
Regional Aspects	6
Hope Property	7
Conclusions	7
Recommendations	9
Cost Estimate	10
Certification	11

FIGURES

Figure 1	Location and Regional Geology	3
Figure 2	Claim Map	5
Figure 3	Property Compilation Map	8

SUMMARY

The Hope property is located 8 km east of Haines Junction, Yukon Territory in the valley of the Shakwak Fault system between the St. Elias Mountains and the Coast Range Mountains. The property is underlain by a large ultrabasic intrusive complex of uncertain age. Outcrop is very limited and a veneer of glacial gravels covers most of the property. An asbestos occurrence at the northwest corner of the property was trenched and drilled in the 1960's and 1970's with limited access. Ultrabasic complexes elsewhere in the region, including the Wellgreen prospect, are related to potentially economic platinum group metal occurrences associated with nickel-copper sulphide mineralization. A two phase, success contingent exploration program is recommended to test the platinum group metal potential of the Hope property. Phase 1 of the program, consisting of surface surveys, is estimated to cost \$75,000. Diamond drilling in Phase 2 of the program is estimated to cost \$125,000.

INTRODUCTION

Preamble

At the request of L.^JG. Manning, President, IGF Metals Inc., the author as an independent Consulting Geologist, examined the Hope property located near Haines Junction, Yukon Territory on September 18, 1987. This report incorporates the results of that examination and a subsequent review of information pertaining to previous work on the property. The staff of Archer-Cathro and Associates (1981) Ltd. and Chevron Canada Resources Ltd. are acknowledged for their assistance. The conclusions and recommendations contained in this report are those of the author.

Location and Access

The Hope property is located eight kilometers east of Haines Junction, Yukon Territory in a low elevation corridor between the Coast Range Mountains and the St. Elias Mountains. The community of Haines Junction is situated 135 km west of Whitehorse at the junction of the Haines Road (Highway #3) and the Alaska Highway. The property is centered on latitude 60° 44'N, longitude 137° 20'W within NTS map area 115A/11. Access is provided by a dirt road which departs northeast from the Haines Road at Quill Creek.

The property occupies relatively low ground between Quill Creek, Kathleen River and Dezadeash River. Elevations range from 750 meters to 900 meters. Vegetation consists of stunted Jack Pine.

Property Definition

The property consists of 72 quartz lode claims located in the Whitehorse Mining Division, Yukon Territory. The claims were staked in February 1987 by M.P. Phillips and ownership was transferred to Archer-Cathro and Associates (1981) Ltd. on February 11, 1987. The author has been informed by representatives of Chevron Canada Resources Ltd. that the company holds an interest in the claims by way of an agreement with Archer-Cathro & Associates (1981) Ltd. Similarly, the author has been informed that IGF Metals Inc. may earn an interest in the claims by way of an option agreement.

<u>Claim</u>	<u>Record Nos</u>	<u>Expiry Date</u>
Hope 1-72	YA96791-YA96862	Feb 11, 1988

The Rex 1, 12, 13, 37, 38 and Asbestos 1 claims (Figure 2) are owned by Golden Gate Exploration Ltd. and are alien to the Archer-Cathro - Chevron - IGF agreements.

The author has examined the Hope claim posts and is of the opinion that the claims were staked in accordance with Territorial regulations.

IGF METALS INC.

HOPE PROPERTY

WHITEHORSE MINING DISTRICT, Y.T. NTS:115A/11

LOCATION MAP &
REGIONAL GEOLOGY

C.J.WESTERMAN Ph.D.

DATE: SEPTEMBER, 1987

FIGURE: 1



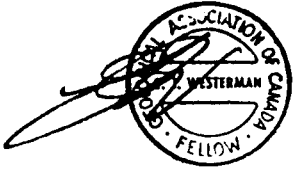
61°

139°

138°

137°

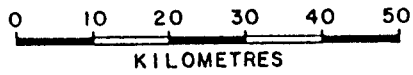
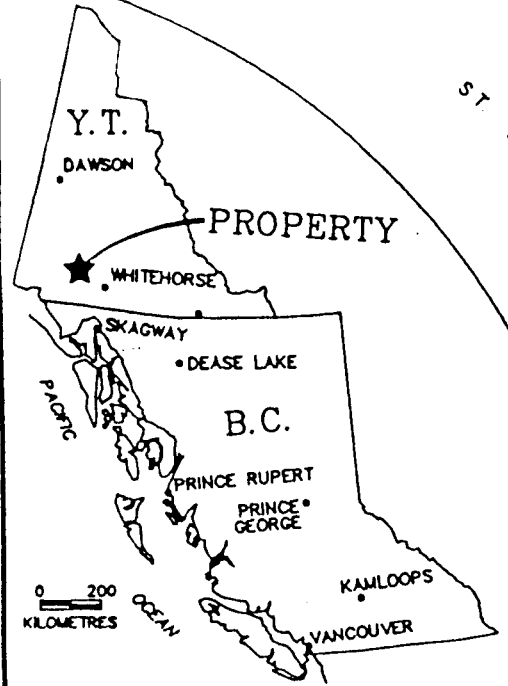
61°



AEROMAG ANOMALY COINCIDENT
WITH ULTRABASIC BODY.

WHITEHORSE
40 Km

COAST
PLUTONIC COMPLEX



History

The area covered by the Hope claims was initially staked in 1953 and 1954 and optioned to Bell Asbestos Ltd. which undertook preliminary surveys. The Rex claims were staked in 1958 and optioned by (1) Canex in 1958-59 which conducted a magnetic survey and trenching, (2) Nicolet Asbestos Corp. in 1960, (3) Spooner Minerals and Oil Ltd. in 1961 which did trenching, (4) Cominco in 1963 which did mapping, magnetic surveys and drilled five holes (253 m).

The property was sold in 1965 to Golden Gate Exploration Ltd. which drilled eight holes (700 m) in 1966. In the same year, Newmont conducted an airborne magnetic survey and did mill testing of asbestos fibre. Golden Gate drilled 365 m of rotary percussion holes in 1969 and in 1973 Asarco, under option, diamond drilled eight holes (614 m) and did further mill testing. Golden Gate drilled 12 percussion holes in 1978 in a second area of the property and Asarco followed up with four diamond drill holes (640 m) in 1979. No further work appears to have been done on the property until it was restaked by Phillips in 1987. Golden Gate Exploration Ltd. has retained six claims in good standing by paying cash-in-lieu of work in recent years. All of the previous drilling and trenching was undertaken on these six claims.

References

- Tully, D.W. (1978): The Rex Asbestos Property, Report for Golden Gate Explorations Ltd.
- George Cross Newsletter: 28 Sept., 1978; 22 May and 20 June, 1979.
- Archer-Cathro and Associates Ltd. (1972). Northern Cordillera Mineral Inventory, Occurrence No 115A-32.
- Findlay, D.C. (1967): The Mineral Industry of Yukon Territory and the SW District of Mackenzie - 1966. Geol. Survey Canada, Paper 67-40 p. 55.



PROPERTY

61	63	65	67	69	71	REX 11	
62	64	66	68	70	72		
59	60	30	29	REX 12	REX 13	21	1
57	58	32	31	REX 37	REX 38	4	3
55	56	34	33	27	28	6	5
53	54	36	35	25	26	8	7
51	52	38	37	23	24	10	9
49	50	40	39	21	22	12	11
47	48	42	41	19	20	14	13
45	46	44	43	17	18	16	15

ASBESTOS 1

KATHLEEN RIVER

HAINES ROAD

OIL PIPELINE
(ABANDONED)

CREX

OULL



IGF METALS INC.

HOPE PROPERTY

WHITEHORSE MINING DISTRICT, Y.T. NTS:115A/11

CLAIM MAP

C.J.WESTERMAN Ph.D.

DATE: SEPTEMBER, 1987

FIGURE: 2



GEOLOGY AND MINERALIZATION

Regional Aspects

The geological framework of the Kluane-Dezadeash area is dominated by the northwest trending Shakwak Fault zone (Figure 1). The Alexander Terrane to the southwest of the Shakwak Fault is a complex of Paleozoic to Lower Mesozoic volcanic and sedimentary rocks. Lower Permian sediments disconformably overlain by Upper Triassic amygdaloidal basalts of the Eastern Skolai Belt occur immediately southwest of the Shakwak Fault and northeast of the Duke River Fault. Mafic and ultramafic rocks which intrude the Permian sequence are spatially and genetically associated with copper-nickel mineralization which contains gold and platinum group metal values. Massive to stringer to disseminated type mineralization is related primarily to gabbroic sills intrusive into peridotite bodies. Dunite portions of the ultramafic complexes are generally barren. The Wellgreen deposit (Figure 1) produced 37,000 tons of Ni-Cu concentrate during a brief period in 1972-73. The initial production decision was based on a reserve of 737,600 tons grading 2.0% Ni, 1.4% Cu, 0.07% Co, 0.038 opt Pt, 0.027 opt Pd and 0.005 opt Au. Recent resampling suggests that modern assay techniques return platinum group metal assays 20-30% higher than previous values.

Northeast of the Shakwak Fault lie the intrusive complexes of the Ruby Range, Nisling Range and Dawson Range which together comprise the north extension of the Coast Mountains Plutonic complex. An arcuate assemblage of metamorphosed Upper Jurassic sedimentary and volcanoclastic rocks lies between the Coast Mountains Plutonic complex and the Shakwak Fault in the area between Kluane Lake and Dezadeash Lake. This overlap assemblage has been dextrally offset at least 300 km along the Shakwak Fault relative to equivalent strata of the Gravina-Nutzotin Terrane of Alaska.

A peridotite sill intrudes Upper Jurassic sediments along Contact Creek, 20 kilometers west of Haines Junction. The ultrabasic body is probably of Cretaceous age and contains some chromite layers. Fine grained platinum occurs in stream gravels and is probably derived from the peridotite body.

Hope Property

Extensive glacial overburden conceals what lies beneath the majority of the Hope property. Limited outcrops on higher ground immediately northeast of the property are chloritic schists of probable Upper Jurassic age belonging to the Dezadeash Group of the Gravina-Nutzotin assemblage (Figure 3). Foliation strikes northwest and dips steeply to the southwest.

A variety of ultrabasic rocks are poorly exposed in outcrops and trenches in the area of the Rex 1 claim and in limited outcrops in the area of the Hope 29 claim. The more easterly occurrences are mixed peridotite-dunite and minor gabbroic phases which locally display coarse grained cumulate textures. The ultrabasic rocks are variably but rather weakly serpentinized and carry asbestos cross-fibre veinlets in two sets of fractures, one northeast and the other northwest. Previous trenching and drilling indicated a reserve of 4 million tons of 1-2% fibre within the Rex 1 and Asbestos 1 claim. Outcrop in a small hill just west of the trenches exposes magnetite in hairline fractures in a variety of ultrabasic rock types. One small area contains up to 10% magnetite as the matrix to a brecciated coarse grained dunite.

The area containing the asbestos reserve correlates with a northwest trending ground magnetic high anomaly but also appears to correlate with a strong circular aeromagnetic low anomaly (Figure 3). The south part of the property and the area immediately to the southwest correlates with a strong circular positive aeromagnetic anomaly. The source of the anomaly is masked by glacial deposits but presumably is related to the presence of an ultramafic body carrying magnetite.

CONCLUSIONS

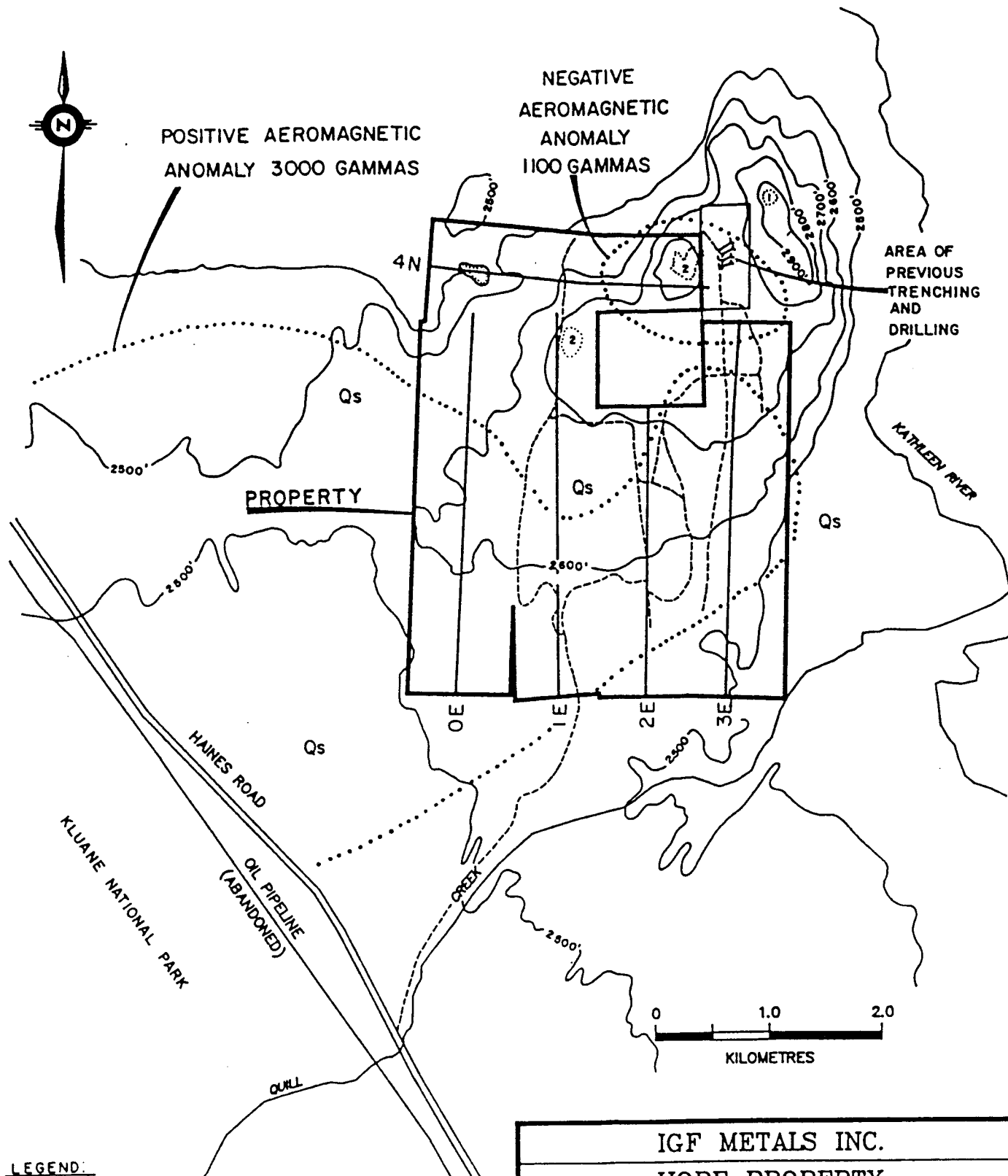
The Hope property is underlain by an ultrabasic complex of unknown age. Asbestos occurrences northeast of the property have been investigated in part by trenching and drilling with limited success. The platinum group metal potential of the property has not been tested. Potentially economic platinum group mineralization is associated with ultrabasic complexes 150 km to the northwest at the Wellgreen deposit. Platinum in stream sediments is associated with the



POSITIVE AEROMAGNETIC ANOMALY 3000 GAMMAS

NEGATIVE AEROMAGNETIC ANOMALY 1100 GAMMAS

AREA OF PREVIOUS TRENCHING AND DRILLING



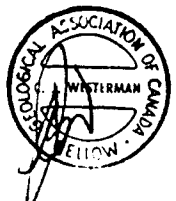
LEGEND:

-  OUTCROP
-  TRENCH

 JUR-CRET DEZADEASH GROUP
Chlorite Schists

 PERM-TRIAS OR CRET.
Ultramafic intrusions

Qs PLEISTOCENE GLACIAL DEPOSITS



IGF METALS INC.	
HOPE PROPERTY	
WHITEHORSE MINING DISTRICT, Y.T. NTS:115A/11	
COMPILATION MAP	
C.J.WESTERMAN Ph.D.	
DATE: SEPTEMBER, 1987	FIGURE: 3

Contact Creek ultrabasic mass, 25 km to the west. An exploration program to test the platinum group metal potential of the Hope property is warranted.

RECOMMENDATIONS

A two phase, success contingent, program is recommended to test the platinum group metal potential of the property. At the time of my examination, September 18, 1987, the operator had collected 156 soil samples from 15.4 km of line grid and had undertaken limited prospecting and mapping. I recommend that this work be included in Phase 1 of the program which is recommended to total 60 line kilometers of VLF-EM, magnetometer and gradiometer surveys on cut survey lines spaced at 200 meter intervals and the collection of 2,400 soil samples at 25 meter spacing on the lines. Geochemical analysis of soil samples at 50 meter spacing followed by analysis as necessary to in-fill anomalous areas is recommended. Phase 1 of the recommended program is estimated to cost \$75,000. A success contingent Phase 2 program of 900 meters of drilling is also recommended at an estimated cost of \$125,000.



September 22, 1987
Vancouver, B.C.

C.J. Westerman, Ph.D., F.G.A.C.
Consulting Geologist

**COST ESTIMATE
HOPE PROPERTY - WHITEHORSE M.D., YUKON
IGF METALS INC.**

Phase 1

Geophysics VLF-EM, Magnetometer, Gradiometer, 60 km	\$ 14,000
Line cutting, 60 km at \$250/km	15,000
Soil sampling, 2,400 samples at \$5/sample	12,000
Geochemical analysis, 1,500 samples at \$20	30,000
Field supervision	2,000
Engineering	<u>2,000</u>
Total Phase 1	<u><u>\$ 75,000</u></u>

Phase 2

Diamond drilling, 900 m at \$100/m	90,000
Geologist	7,500
Assistant	2,500
Food and accommodation	2,400
Vehicle and rental	2,000
Bulldozer roads and pads	6,000
Assays, 300 at \$25	7,500
Freight, communication, supplies	500
Drafting and report	1,000
Engineering	2,000
Government filing fees	<u>3,600</u>
Total Phase 2	<u><u>\$ 125,000</u></u>

September 22, 1987
Vancouver, B.C.




C.J. Westerman, Ph.D., F.G.A.C.
Consulting Geologist

CERTIFICATION

I, Christopher John Westerman, hereby certify that:

1. I am an independent Consulting Geologist with an office at 1010 - 470 Granville Street, Vancouver, British Columbia, V6C 1V5.
2. I am a graduate of London University, England with the degree of Bachelor of Science in Geology (1967); of the University of British Columbia with the degree of Master of Science in Geology (1970) and of McMaster University, Ontario with the degree of Doctor of Philosophy in Geology (1977).
3. I am a Fellow of the Geological Association of Canada (F.525) and a member of the Canadian Institute of Mining and Metallurgy.
4. I have practised my profession in North America since 1967, having worked as employee and consultant for several International Mining Corporations and Junior Resource Companies.
5. I have not, directly or indirectly, received or expect to receive any interest, direct or indirect, in the properties of IGF Metals Inc. or any affiliates or of any property within a radius of ten kilometres of subject property, or beneficially own, directly or indirectly, any securities of the company or of any affiliates.
6. This report is based upon personal examination of available reports, and upon personal field observations made whilst examining the property on September 18, 1987.
7. I consent to the use of my report entitled "The Platinum Group Metal Potential of the Hope Property" and dated September 22, 1987 in, or associated with, the filing of a Statement of Material Facts by IGF Metals Inc.

September 22, 1987
Vancouver, B.C.




C.J. Westerman, Ph.D., F.G.A.C.
Consulting Geologist