84-#184 — #12121
2

PROSPECTING REPORT

CLAIMS	:	J & L1 J & L2 (fraction) J & L3 (fraction) J & L4 (fraction)
MINING DIVISION	:	Similkameen
N.T.S.	:	92H/10W
LATITUDE	:	49°31' N
LONGITUDE	:	120°54' W
OWNER/OPERATOR	:	Imperial Metals Corporation
AUTHOR	:	I.R. Corvalan
DATE	:	January 24, 1984

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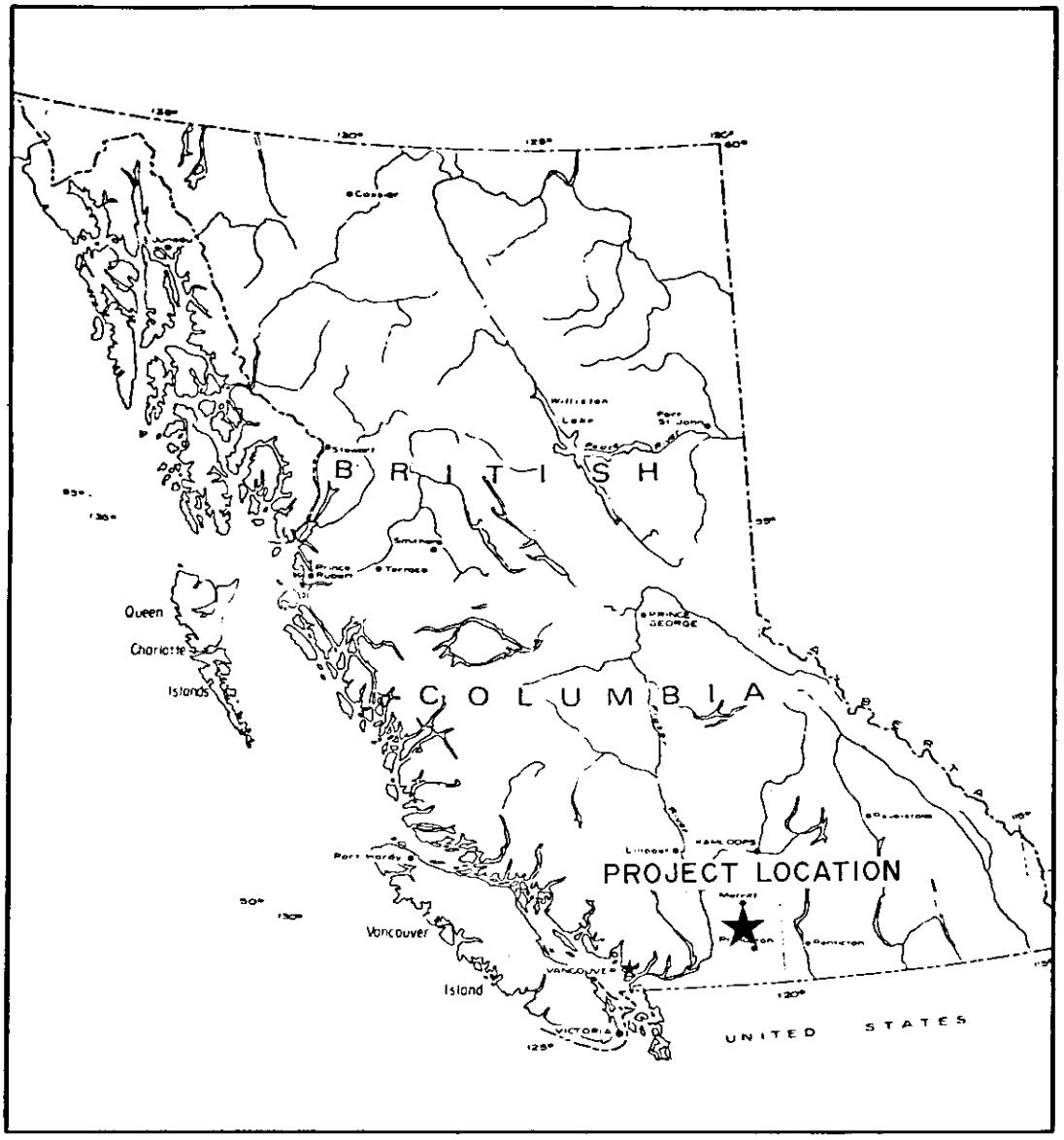
TABLE OF CONTENTS



IMPERIAL METALS CORPORATION

TULAMEEN PROJECT

FIGURE 1 N.T.S. 92H/10W

J & L CLAIM GROUP LOCATION MAP

Km 200 0 200 400 600 Km

SCALE: 1:12 500 000 Approx.	GEOLOGIST: R. CORVALAN, P.Eng
DATE: JANUARY 1984	DRAWN BY: S. HAWORTH

1. INTRODUCTION

1.1 Location and Access :

The J & L claim group is located in Britton Creek, 700m of the confluence of Britton Creek and Tulameen River. The coordinates of the area are: Latitude 120° 54' West. N.T.S. map #92H/10W, Similkameen M.D. The terrain is rugged with elevations ranging from 850m to 300m. Access is by a gravel road that runs along the Tulameen River. The claim area is 11 km N.W. of the village of Tulameen, the nearest supply centre.

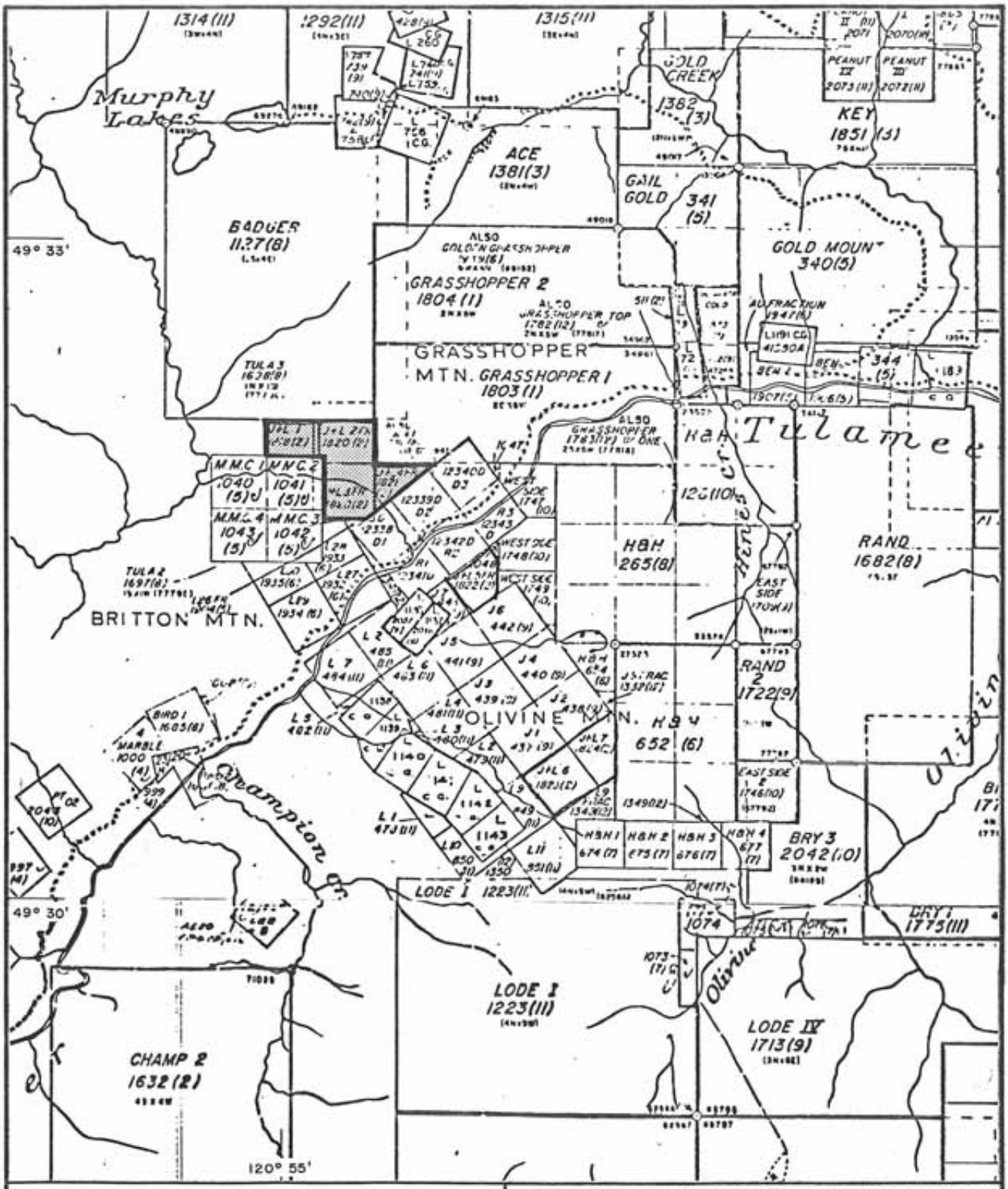
1.2 Property :

The property is covered by the following claims owned by Imperial Metals Corporation, Vancouver, B.C.

Claim Name	Record Number	Due Date
J + L 1	1818	February 11, 1983
J + L 2 (fraction)	1819	February 11, 1983
J + L 3 (fraction)	1820	February 11, 1983
J + L 4 (fraction)	1821	February 11, 1983

1.3 History :

In the Tulameen area, placer gold deposit was discovered in the 1860's. Some platinum occurred with gold, but no attempt to recover it was made up to 1885. Since then more than 40,000 oz of platinum has been produced. Geological investigations by the G.S.C. (1910) and the U.S. Geological Survey (1902) showed that the source of the placer platinum was the Olivine-Grasshopper ultrabasic stock. Numerous attemps have been made to find economic platinum lode deposits, but low grade sample results and expensive assay fees discouraged a systematic testing of the area.



IMPERIAL METALS CORPORATION

TULAMEEN PROJECT

FIGURE 2 N.T.S. 92H/10W

J & L CLAIM GROUP CLAIM MAP

Km 1 0 1 2 Km

SCALE: 1:50 000	GEOLOGIST: R. CORVALAN, P.Eng
DATE: JANUARY 1984	DRAWN BY: S. HAWORTH

1.4 Geology :

In general the rock of the area consists of a series of andesites interbedded with limestone, argillite and schist of triassic age. The series has been intruded by plutonic rocks including granite, granodiorite and the olivine Grasshopper ultrabsic stock. The J & L claim group is located close to the centre of the ultrabasic stock which is a large body of pyroxenite enclosing a core of peridotite dunite. Platinum may be associated with one of these rocks.

1.5 Mineralization :

Platinum is reported to be present in the peridotite stock, particularly where serpentinization was strong or were the rock was rich in chronite (Camsell, 1913). Kemp (1902) sampled all the unusual phases of the rocks across the district; but although he obtained high platinum assays they were erratically distributed. The possibility of platinum to be present as disseminate and have economical grade has not been studied systematically. This preliminary study attempts to evaluate this possibility.

1.6 Summary of Work Done :

The claim group was visited to determinate existence of Platinum in outcrops. Outcrops were sparse with exception of the Britton Creek area. Seven samples were taken on the right side of Britton Creek. The property was visited June 23, 1983.

2. OUTCROP SAMPLING

2.1 Sample Location :

Figure #3 shows description, location and results of the samples taken.

2.2 Interpretation :

This preliminary rock geochem sampling shows the existence of platinum anomalous values on 3 of the rock units studied. Platinum nuggets assayed by Hart (1982) are showed in table #1 if we consider the ratio Pt (Pt+Ir+Os) (see table #2) We can assume that the platinum content of our rock samples may represent only a small percentage of the platinum group element (PGE) content. Table #1 also shows that osmium and iridium are important contituents of the platinum placers of the Tulameen area.

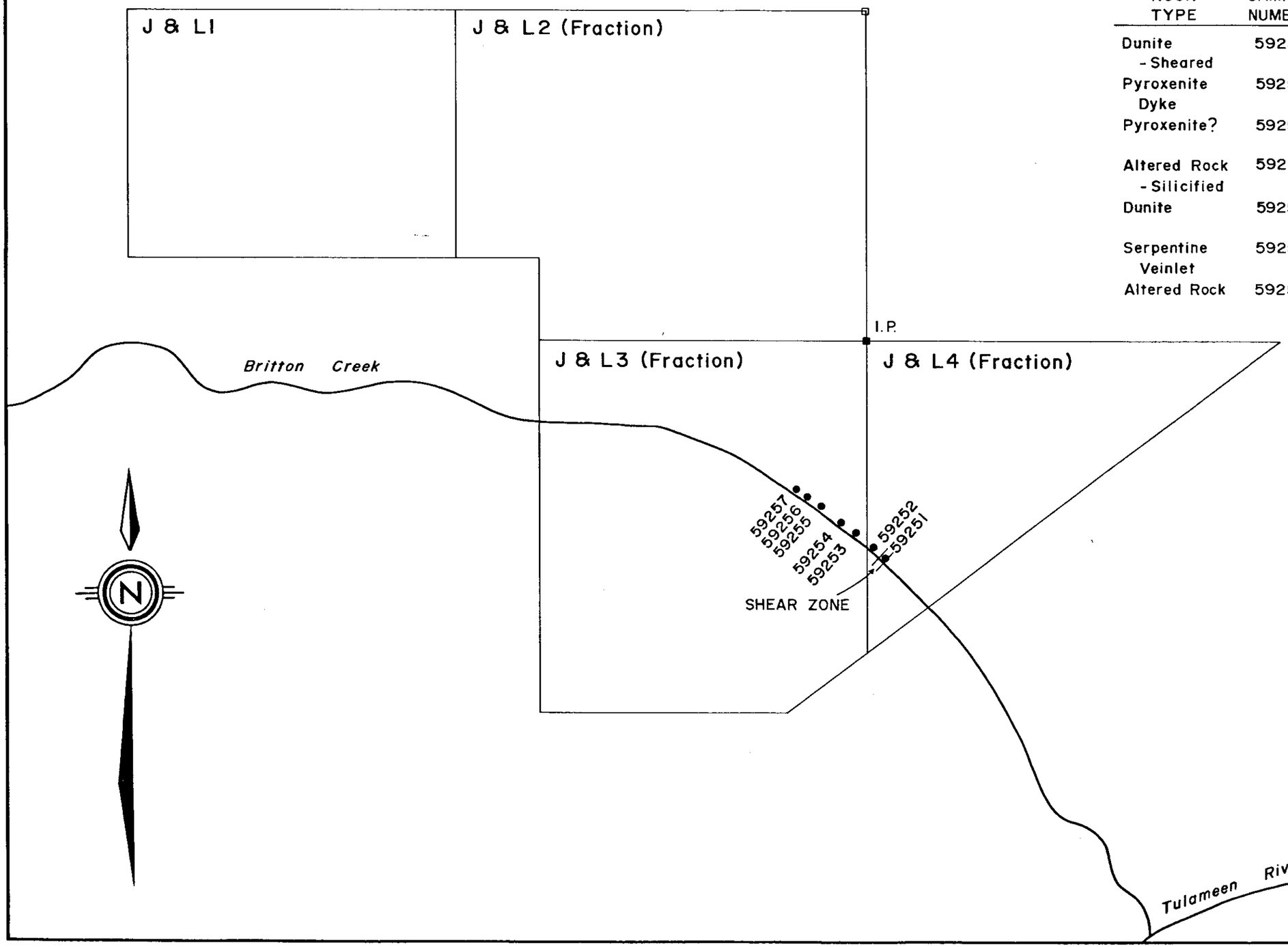
2.3 Conclusions :

The probability of finding disseminated P.G.E. in some of the rock types of the Olivine Grasshopper area is high.

2.4 Recommendations :

It is recommended to carry out a systematic rock and/or soil sampling program on the J & L claims, samples must be assayed for platinum, osmium and iridium.

ROCK TYPE	SAMPLE NUMBER	Pt ppb	Au ppb	Cr ppm
Dunite - Sheared	59251	<50	20	1400
Pyroxenite Dyke	59252	350	40	68
Pyroxenite?	59253	100	10	37000
Altered Rock - Silicified	59254	<50	10	2680
Dunite	59255	50	10	210
Serpentine Veinlet	59256	50	10	920
Altered Rock	59257	200	10	1940



12121 fee

IMPERIAL METALS CORPOR

TULAMEEN PROJECT

FIGURE 3 N.T.S.

J & L CLAIM GROU
OUTCROP SAMPLI

Metres 100 0 100

SCALE: 1:5000 | GEOLOGIST: R. COR

DATE: JANUARY 1984 | DRAWN BY: S. HAW

TABLE #1

Pt-Ir-Os.

Table III EPMA results and formula for nuggets 1,2,and3.

Analysis	% ELEMENT Fe	Ni	Ni	Cu	Re	Os	Ir	Pt	S	TOTALS	Ir+Pt
1	8·3	0·2		0·3	0·3	—	10·1	82·5	—	101·7	92.6
2	0·3	—		1·5	3·7	16·6	67·5	10·2	—	99·8	77.7
3	0·3	—		1·6	4·1	17·9	66·9	9·1	—	99·9	76.0
4	4·8	—		5·6	1·7	5·7	46·8	43·1	—	107·7	
5	0·3	—		1·9	3·4	17·3	70·8	9·2	—	102·9	
6	8·1	0·2		0·8	0·2	—	6·4	86·7	0·2	102·6	
7	10·8	0·2		10·5	0·3	—	8·3	73·9	0·2	104·2	
8	0·4	0·1		0·7	3·7	15·8	71·6	10·5	—	102·8	
9	0·5	0·1		0·7	3·4	15·5	72·6	10·3	—	103·1	
10	8·3	0·2		0·3	0·5	—	13·4	81·5	0·2	104·4	
11	5·7	—		0·7	0·9	3·1	35·5	61·5	0·1	107·5	
12	3·0	—		1·1	1·6	3·8	66·0	24·3	0·1	99·9	

Analysis	FORMULA.		MINERAL NAME	REFERENCE
1	$Pt_{0.66}Ir_{0.08}Fe_{0.25}Ni,Cu,Re_{<0.01}$	*	ISOFERROPLATINUM.	Cabri P166
2	$Ir_{0.72}Os_{0.18}Pt_{0.11}Cu_{0.05}Re_{0.04}Fe_{0.01}$		OSMIRIDIUM.	P161
3	$Ir_{0.64}Os_{0.17}Pt_{0.09}Cu_{0.05}Re_{0.04}Fe_{0.01}$		OSMIRIDIUM.	P161
4	$Ir_{0.36}Pt_{0.32}Os_{0.04}Fe_{0.13}Cu_{0.13}S_{0.01}$		IRIDIUM ANALOGUE Tulameenite?	P194
5	$Ir_{0.66}Os_{0.16}Pt_{0.09}Cu_{0.05}Re_{0.03}Fe_{0.01}$		OSMIRIDIUM	P161
6	$Pt_{0.69}Ir_{0.05}Fe_{0.22}Cu_{0.02}S_{0.01}Ni_{<0.01}$	*	ISOFERROPLATINUM	P166
7	$Pt_{0.47}Ir_{0.05}Fe_{0.24}Cu_{0.22}S_{<0.01}$		TULAMEENITE	P165
8	$Ir_{0.67}Os_{0.15}Pt_{0.10}Re_{0.04}Cu_{0.02}Ni_{0.02}Fe_{0.01}$		OSMIRIDIUM.	P161
9	$Ir_{0.68}Os_{0.15}Pt_{0.10}Re_{0.03}Cu_{0.02}$		OSMIRIDIUM	P161
10	$Pt_{0.64}Ir_{0.11}Fe_{0.23}Ni,Cu,Re_{<0.01}$	*	ISOFERROPLATINUM	P166
11	$Pt_{0.50}Ir_{0.29}Os_{0.03}Fe_{0.16}Cu_{0.02}$		FERROAN IRIDIAN PLATINUM	
12	$Ir_{0.60}Pt_{0.21}Os_{0.04}Fe_{0.09}Cu_{0.04}Re_{0.04}$		PLATINIRIDIUM	P161

IDEAL FORMULAS

ISOFERROPLATINUM - Pt_3Fe.

TULAMEENITE - $Pt_2Fe.Cu$

PLATINIRIDIUM - $Ir_{0.80}Pt_{0.20}$

OSMIRIDIUM - $Ir_{0.80}Os_{0.20}$

* Cabri (1981).

9/12

50 %.

Pt-Os-Ir

TABLE NO. 2

(Based on Table No. 1, (Hart, 1982))

Analysis	Pt %	Ir + Os + Pt	Pt/(Ir + Os + Pt)
1	82.5	92.6	.89
2	10.2	94.3	.11
3	9.1	93.9	.097
4	43.1	95.6	.456
5	9.2	97.3	.095
6	86.7	93.1	.935
7	73.9	82.2	.911
8	10.5	97.9	.107
9	10.3	98.4	.105
10	81.5	94.9	.859
11	61.5	100.1	.615
12	24.3	94.1	.258

BIBLIOGRAPHY

C. Camsell, 1913 — "Geology and Mineral Deposits of the Tulameen District, B.C. G.S.C. Memoir No. 26.

C.J. Coveney, 1980 — 'Report on the J-L Claims' Internal Report, Ricard Resources Ltd.

D. Hart, 1982 — 'Prospect evaluation - mineral exploration in B.C. Canada and Arizona U.S.A. Sc. thesis, University of London.

J.F. Kemp, 1902 — "The geological relations and of platinum and associated metals" U.S.A. Geological Survey, Bulletin No. 193.

ANNEX #1

Statement of expenditures on J & L Mineral Claim Group for 1983.
(June 23, 1983)

Wages and Salaries			
I.R. Corvalan	1 day @ $200/day		$ 200.00
J. Agar (helper)	1 day @ $80/day		80.00
Geochemical Analysis			
7 assay Au @ $3.50 each			24.50
7 assay Cr @ $1.80 each			12.60
7 assay Pt @ $6.25 each			43.75
			$ 94.85
Transportation			
Truck rental	1 day @ $40 each		$ 40.00
Gas			20.00
Meals			20.00
Report preparation			300.00
		TOTAL	$ 754.85

ANNEX #2

IN MATTER OF THE

B.C. MINERAL ACT

AND

IN MATTER OF A OUTCROP SAMPLING

CARRIED OUT ON THE

J & L CLAIM GROUP

LOCATED IN THE SIMILKAMEEN MINING DIVISION

OF THE PROVINCE OF BRITISH COLUMBIA

MORE PARTICULARLY N.T.S. 92H/10W

A F F I D A V I T

I, I. RUBEN CORVALAN, P. ENG., OF THE CITY DISTRICT OF NORTH VANCOUVER IN THE PROVINCE OF BRITISH COLUMBIA, MAKE OATH AND SAY :

1. THAT I AM AN EMPLOYEE OF IMPERIAL METALS CORPORATION AND AS SUCH HAVE A PERSONAL KNOWLEDGE OF THE FACTS TO WHICH I HEREINAFTER DISPOSE;

2. THAT ANNEXED HERETO AND MARKED AS "ANNEX #1" IS A TRUE COPY OF EXPENDITURES ON A GEOCHEMICAL AND TRENCHING PROGRAM CARRIED OUT ON THE J & L CLAIM GROUP;

3. THAT THE SAID EXPENDITURES WERE INCURRED THE DATE OF JUNE 23, 1983, FOR THE PURPOSE OF MINERAL EXPLORATION ON THE ABOVE CLAIMS.

I.R. CORVALAN, P. ENG.

ANNEX #3

IMPERIAL METALS CORPORATION

STATEMENT OF QUALIFICATIONS

I, I. RUBEN CORVALAN, P. ENG. OF THE CITYOF NORTH VANCOUVER, BRITISH COLUMBIA, HEREBY CERTIFY :

1. THAT I AM A PROFESSIONAL ENGINEER RESIDING AT #117 - 908 BERKLEY ROAD, NORTH VANCOUVER, BRITISH COLUMBIA;

2. THAT I GRADUATED WITH A MINING ENGINEERING DEGREE FROM THE UNIVERSITY OF CHILE, CHILE, IN 1969;

3. THAT I HAVE PRACTICED GEOLOGY AND GEOCHEMISTRY IN SOUTH AMERICA AND CANADA FOR THE LAST 15 YEARS.

DATED THIS 10th DAY OF February, 1984
AT VANCOUVER, BRITISH COLUMBIA.

SIGNED I. Corvalan

I.R. CORVALAN, P.ENG.

jec

ANNEX #4

SAMPLE RESULTS

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B C
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE
BURNABY, B.C.
V5B 3N1

CERT. # : A8313647-001-
INVOICE # : I8313647
DATE : 15-AUG-83
P.O. # : NONE
IMPERIAL METALS

Sample description	Prep code	Pt ppb					
59251	214	<50	--	--	--	--	--
59252	214	350	--	--	--	--	--
59253	214	100	--	--	--	--	--
59254	214	<50	--	--	--	--	--
59255	214	<50	--	--	--	--	--
59256	214	50	--	--	--	--	--
59257	214	200	--	--	--	--	--

Certified by Hartt Bichler

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

*** INVOICE ***

To : ROSSBACHER LABORATORY LIMITED

2225 S. SPRINGER AVENUE
BURNABY, B.C.
V5B 3N1

Invoice # : I8313647

Date : 15-AUG-83
P.O. # : NONE
Project IMPERIAL METALS

Invoice for analytical work reported on certificate(s) A8313647-001

Quantity	Analysed for code	description	unit price	amount
7	413 - Pt	ppb	6.25	43.75

Sample preparation and other charges :

7	214 - Bag pulp	0.00	0.00

TOTAL $ 43.75

Please pay this amount ----> $ 43.75

TERMS -- NET 30 DAYS
1.5 % per month (18 % per annum) charged on overdue accounts

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B.C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

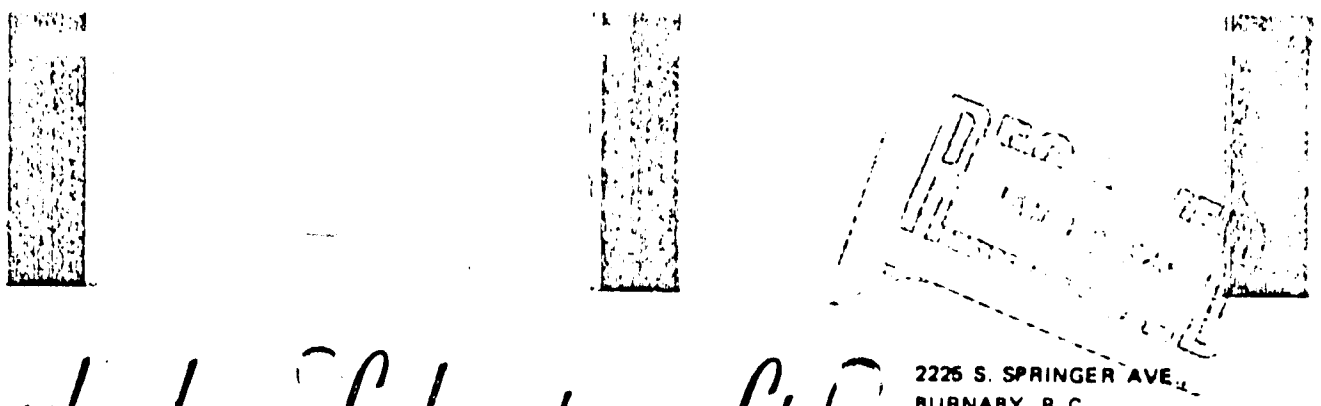
CERTIFICATE NO. 83243.4
INVOICE NO. 3216
DATE ANALYSED 83/07/25
PROJECT CIMA RESOURCES

TO: IMPERIAL METALS LTD.
United Kingdom Bld.
Vancouver, B.C.

No.	Sample	pH	Mo	Cu	Pb	Zn	Ag	PPB Au	Cr					No.
01	784552				28	34	0.2	20						01
02	784553				290	14	0.4	10						02
03	589951						2.2	80						03
04	589952						81.0	13,000	—					04
05	589953						48.0	7,000	→					05
06	589954						0.6	10						06
07	589955						0.2	10						07
08	589956						20.0	3,300						08
09	592851							20	1,400					09
10	592852							40	68					10
11	592853							10	27,000					11
12	592854							10	2,630					12
13	592855							10	210					13
14	592856							10	920					14
15	592857							10	1,940					15
16	592860						0.8	70						16
17	592861						15.0	7000	→					17
18	592871						0.4	20						18
19	592872				12		0.4	10						19
20	592873				60	14	0.2	10						20
21	592874						0.2	10						21
22	592875					66	0.2							22
23	592876			230	360	112	1.0	10						23
24	592877					58	0.2							24
25	592878				16		0.2	10						25
26	592879			84		74	0.2	10						26
27	592880			24	20	54	0.2	10						27
28	592881			72	94	90	0.2	10						28
29														29
30														30
31														31
32														32
33														33
34														34
35														35
36														36
37														37
38														38
39														39
40														40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by J. Rossbacher



Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

IMPERIAL METALS LTD.
United Kingdom Bld.
Vancouver, B.C.
Cima Resources, R. Carvalan

DATE Aug 21, 1983
INVOICE NO. 5316
CERTIFICATE NO. 83243

ITEM	DESCRIPTION		SUB-TOTAL	TOTAL
3	Geochem analysis for 4 elements @	$ 3.35	$ 10.05	
79	3	2.90	229.10	
11	2	2.40	26.40	
39	1	1.80	70.20	
125	Au	3.50	437.50	
103	Soil sample prep	0.50	51.50	
29	Rock sample prep	2.00	58.00	
				$ 882.75

TERMS - NET 30 DAYS