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GEOLOGICAL SURVEY SOIL GEOCHEMISTRY MAGNETOMETER SURVEY

STRAIGHT LAKE PROPERTY

Moncrieff, Uister Townships, Ontario Sudbury Mining District RECEIVED

NTS: 421 16

SEP 2.9 **1988**

MINING LANDS SECTION

for

IMPERIAL METALS CORPORATION

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R. MICHAEL JONES & DENNIS GORC

JUNE 1, 1988

SUMMARY

Linecutting, geological mapping, detailed soil sampling and magnetometer surveys were completed in May 1988 on the Straight Lake property in Moncrieff and Ulster Townships, Ontario. The Straight Lake property is on strike with the Stralak massive sulphide deposit located 1.5km to the west.

The Straight Lake property covers an east west strongly foliated sequence of mafic volcanics, clastic and siliceous metasediments. The main sulphide showing on the property consists of massive pyrite and pyrrhotite at the contact between mafic volcanics and mineralized siliceous metasediments. A second metasediment-volcanic contact occurs in the southern part of the property.



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1.0 INTRODUCTION

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The Straight Lake property consists of six claims centered on the Moncrieff-Ulster Township boundary approximately 75km northwest of Sudbury, Ontario within the Benny Lake Greenstone Belt.

The property is on strike with the Stralak massive sulphide deposit located 1.5km to the west.

In May 1988 a program of linecutting, geological mapping and sampling, soil geochemistry and a detailed magnetometer survey was carried out by Imperial Metals Corporation on the Straight Lake property.

2.0 LOCATION AND ACCESS

The Straight property is located 3km northwest of the hamlet of Benny on the main C.P. railway line. The C.P. railway cuts across the property. A rough, four-wheel drive bush road leads to the property from Benny. Preferred access is by four-wheel all-terrain vehicle since the road is so rough, travel by truck is slow. From Benny to the property by A.T.V. takes approximately 20 minutes.

3.0 <u>CLAIM DATA</u>

The property is comprised of six mineral claims located in Ulster and Moncrieff Townships, Sudbury Mining Division.

<u>Claim Number</u>	<u>Record Date</u>	Township
S681917	March 19, 1984	Moncrieff Twp
S734531	March 23, 1984	Moncrieff Twp
S734532	March 23, 1984	Moncrieff Twp
S734528	March 19, 1984	Ulster Twp
S734529	March 23, 1984	Ulster Twp
\$734530	March 23, 1984	Ulster Twp

On September 8, 1987 two wedges (S985120 and S993594) were staked north of claims S734528 and S734529 to cover apparent gaps between these claims and claims S833682 and S833681 located to the north of the Straight Lake property. The above wedges are awaiting inspection by a claims inspector before being accepted.

4.0 EXPLORATION HISTORY

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The sulphide occurrence on the Straight Lake property has been described as early as 1929, by Osborne. He reports pyrite with minor chalcopyrite sphalerite and galena occur as stratabound disseminations and lenses in a zone 1.5 meters wide and 120 meters long. Assays are reported as high as 3.5% zinc and 0.44% copper.

West of the Straight Lake property a zinc-rich sulphide deposit of 363,680 tons grading 3.18% Zn, 0.32% Cu, and 0.68 oz. per ton Ag was outlined by Preston East Dome and reported by Mining Corporation of Canada in 1965. The calculation was done using an average width of 8.6 feet to a depth of 157 feet with a length of 1500 feet. Recent work by Stralak Resources has reportedly increased the tonnage and a new zone to the south of the main horizon was found. Details are unclear, however, the southern zone is thought to be better grade than the main horizon. The above program included geological mapping on the area covered by the Straight Lake property.

Work directly on the Straight Lake property has been carried out by several companies. An Input EM survey was flown by Questor for Tex-Sol Exploration Ltd. in 1972.

In 1975 Chevron Standard optioned the Tex-Sol claims and investigated several of the airborne anomalies defined in the 1972 survey. On the airborne anomaly located on the Straight Lake property Chevron completed reconnaissance magnetometer and soil surveys.

In 1980 Rio Tinto flew an Aerodat survey but no follow-up work was recorded.

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In 1985 Teck Exploration optioned the Straight Lake property and conducted a program of geological mapping, shootback EM surveys and magnetometer readings. Baselines were cut but the crosslines were flagged. A strong EM conductor was located coincident with the main sulphide showing. The magnetic survey by Teck outlined several highs including a high over the main sulphide showing. Rock sampling by Teck was not extensive and only a few samples were taken which gave low value in zinc, copper and silver. Teck did not recommend further work on the Straight Lake property.

In 1987 Imperial Metals Corporation optioned the property from J. Brady of Sudbury. In February 1988, Imperial Metals contracted Terraquest Ltd. of Toronto to complete an airborne VLF electromagnetic-magnetometer survey over the property. Several anomalies were defined.

5.0 <u>GENERAL GEOLOGY</u>

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The property is located near the northern boundary of the Benny Lake Greenstone belt. The Benny Lake belt consists of a number of cyclic repetitions of mafic intermediate and felsic metavolcanics and most of these cycles contain intercalations of sediment and sulphide bearing sulphide bearing tuff. Metamorphic conditions across the belt are from upper greenschist to amphibolite facies and strong east-west deformation has occurred. Most of the rocks have a strong penetrative fabric.

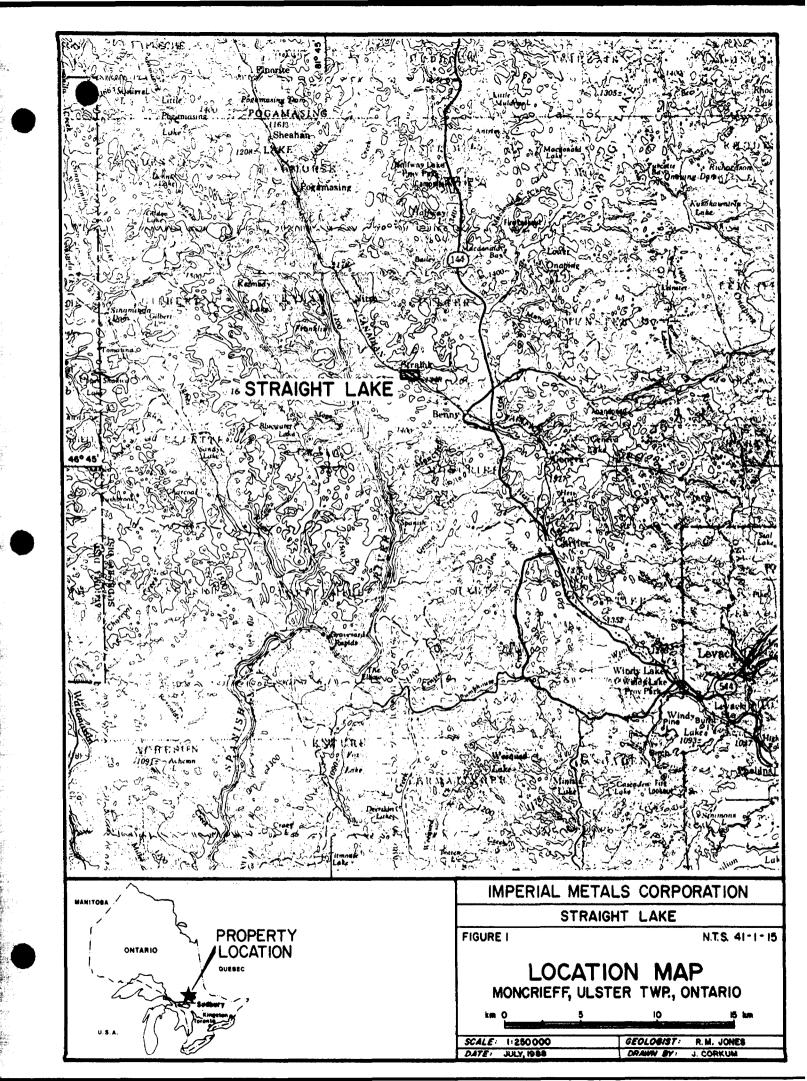
6.0 PROPERTY GEOLOGY

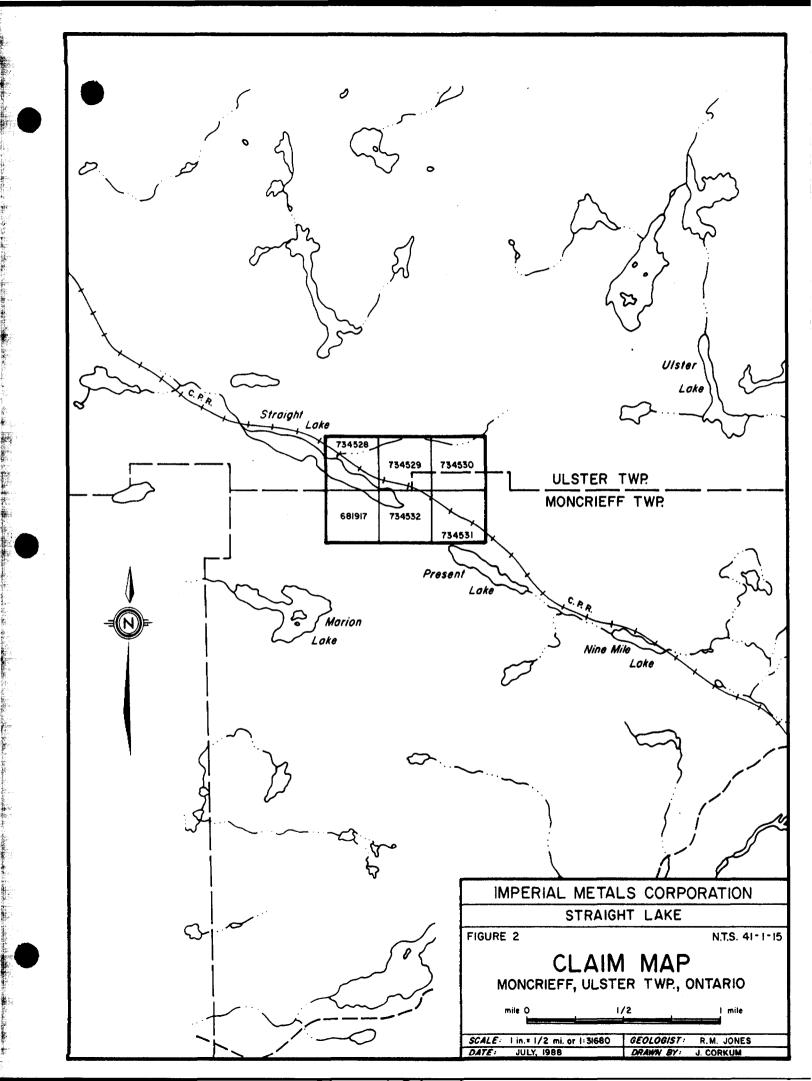
The Straight Lake property is underlain by a sequence of mafic metavolcanics, clastic and siliceous tuffaceous metasediments and hornblende \pm quartz \pm biotite gneiss. Intrusives of gabbro are common. A Nipissing Diabase dyke also crosses the property. Metavolcanic rocks were subdivided into hornblende schist (Unit 1a), moderately foliated mafic volcanic (Unit 1b) and mafic tuff (Unit 1c).

The hornblende schist is very strongly foliated and may have been previously mapped as mafic tuff. However, it was thought that the strong foliation was due to strong east-west deformation and not a primary fabric. TABLE 1 - ROCK GEOCHEMISTRY: SILICEOUS SEDIMENTARY UNIT

Sample No.	Grid Location	Description	Zn	<u>Pb</u>	Cu	Ag	Fe	Fe ₂ 03	<u>510</u> 2	<u>A1203</u>
STR-88-01	1+50E/0+30S	Main sulphide showing	417	6	364	0.9	38.10	50.84	20.11	3.84
STR-88-02	1+00E/0+25S	Pit	455	204	423	1.2	12.64	18.45	51.63	12.52
STR-88-03	1+00E/0+25S	Pit	228	66	102	0.4	6.11	8.58	61.47	14.18
STR-88-04	1+00E/0+35S	Pit	204	62	98	0.3	5.26	7.02	63.03	14.52
STR-88-05	1+50E/0+25S	1m chip main showing	151	17	35	0.1	3.31	4.06	68.86	14.49
STR-88-06	1+50E/0+25S	1m chip main showing	153	9	287	0.6	28.30	41.26	33.11	7.87
STR-88-07	1+50E/0+25S	1m chip main showing	257	17	144	0.5	15.76	22.99	46.79	12.44
STR-88-08	1+50E/0+25S	1.5m chip main showing	106	108	163	0.6	14.06	20.54	45.78	11.31
STR-88-09	1+75E/0+30S	1m sulphides	184	434	82	0.6	7.90	10.45	60.63	14.53
STR-88-10	2+00E/0+40S	Pit	92	16	34	0.1	4.40	5.41	72.20	12.15
STR-88-11	2+75E/0+50S	Trench	42	16	127	0.4	12.65	17.20	50.42	15.11
STR-88-12	2+75E/0+50S	Trench	82	20	32	0.2	3.40	4.32	69.02	14.37
STR-88-13	3+50E/0+50E	Pit	182	17	374	0.9	26.63	40.60	32.47	8.62
STR-88-14	3+50E/0+50S	2m pit	77	4	77	0.1	6.36	10.10	56.55	14.27
STR-88-15	3+50E/3+15S	2m pit	38	4	56	0.1	4.75	6.32	64.18	13.39
STR-88-16	4+50E/0+50N	Quartz vein	123	110	29	0.6	1.57	1.95	79.07	10.78
STR-88-17	9+00E/BL	1-2% pyrite	47	7	32	0.1	3.54	4.73	71.68	12.29
STR-88-18	7+00E/BL		86	11	34	0.1	4.11	5.16	69.74	13.19

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The moderately foliated mafic volcanic is also the result of strong east-west deformation. At one outcrop at 3+75E, BLO faint stretched pillow salvages were visible. No true primary mafic tuff was found on the property.

Metasediments were subdivided into wacke (Unit 2a), siliceous sediments (Unit 2b), cherty sediments (Unit 2c) and siliceous sediments mineralized (Unit 2d). A band of east-west trending metasediments crosses the north part of the property and a second band may cross the southern part of the property.

The wacke and quartzite are commonly finely banded and contain fine biotite. Siliceous sediments are closely associated with sulphide mineralization and a band of siliceous sediments extends east and west along strike from the main sulphide showing. (See Table 1 for rock geochemistry of the siliceous sedimentary unit).

Hornblende \pm quartz \pm biotite gneiss (Unit 3) may be the strongly metamorphosed equivalent of the mafic volcanic unit. The rock consists of quartz, feldspar (?) white bands and black hornblende bands on a mm to cm scale.

Intrusive rocks include coarse grained massive gabbro dykes and plugs which cut the stratigraphy and foliation. The gabbro is completely unfoliated and must have intruded later than the regional deformation. Regionally these dykes strike north-westerly or north-easterly.

A Nipissing Diabase dyke was mapped along the railway, in the south eastern part of the property. This dyke has a similar composition and texture to the gabbro but has a higher white feldspar content. Both the gabbro and the diabase contains 1-3mm hornblende grains. Airborne magnetic surveys indicate this dyke to extend under Straight Lake along an east-northeast trend. The dyke would roughly follow the trace of the Straight Lake Fault.

7.0 <u>STRUCTURE</u>

Card and Innes (1981) describe three separate sets of faults which affect the Benny Lake Greenstone Belt:

(a) <u>N-NW_(N15° to N30° W</u>)

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These faults are characteristically vertical with apparent right hand horizontal displacement of 300 to 2000m.

(b) <u>NW (N50° W to N70° W</u>) These faults show right hand apparent horizontal displacement of 300 to 600m.

(c) <u>NE (N55° E to N70°E</u>) These faults indicate right hand and left hand horizontal displacements of 150 to 300m.

The fault which extends along Straight Lake would be one of the NW (N50° W to N70° W) set of faults.

As mentioned previously most of the rocks underlying the Straight Lake property are strongly foliated. This foliation generally strikes roughly east-west and dips $50^{\circ}-60^{\circ}$ south. The foliation is likely parallel to the bedding.

8.0 <u>ECONOMIC_GEOLOGY</u>

8.1 <u>Volcanogenic Massive Sulphide Mineralization</u> in the Benny Lake Greenstone Belt

The following description is taken from Card and Innes (1981):

"Exploration has been carried out in the map-area for zinc, lead, copper, nickel, iron, silver, gold and uranium. Stratabound and vein-type deposits containing base-metal sulphides occur at a number of locations in the Benny metavolcanic-metasedimentary sequence. The major known deposit, the Geneva Lake Mine¹, Hess Township, was discovered by John Collin in 1924, and from 1941 to 1944 produced some 4,717,000 kg (10,400,000 lbs) of zinc, and 1,632,900 kg (3,600,000 lbs) of lead, and silver valued at \$28,416. The present property owners, Geneva Metals Incorporated, have continued to explore the property in recent years. Other sulphide occurrences in the metavolcanic-metasedimentary sequence, notably the following properties once known collectively as the "Stralak deposit", H. Barry (Stralak Deposit East)(2) and Confederation Mining Corporation Limited (Stralak Deposit West)(4)² in Craig Township, have been tested periodically by trenching, diamond drilling, and geological and geophysical surveys.

There are numerous stratabound sulphide occurrences consisting mainly of pyrite and pyrrhotite with variable amounts of sphalerite, galena, and chalcopyrite within the metavolcanic-metasedimentary sequence. Most of these sulphide occurrences are in schistose siliceous and graphitic rocks at the contacts between mafic and intermediate to felsic metavolcanics, both flows and pyroclastic rocks. There are a number of such sulphide-bearing units in the eastern and central parts of the belt extending from Hess Township to Ouellette Township. Individual zones with disseminated to massive sulphide mineralization are up to 30m thick and several can be traced along strike for several kilometers. Within these zones there are lenses of massive sulphides up to 3m thick. Mineral zoning is evident in one of these stratabound units, the Stralak deposit¹ in Craig Township. The footwall mafic metavolcanics are commonly rich in chlorite, epidote, and vein quartz and locally contain disseminated chalcopyrite. Above this is a zone of schistose graphitic metasediments with heavily disseminated to massive sulphides, mainly pyrite and pyrrhotite, but also at several localities, sphalerite and galena. The sphalerite-rich lenses commonly display a "buckshot" texture consisting of large (up to 1cm), rounded grains of pyrite in a matrix of black sphalerite. Overlying the sulphide-rich zone, there are commonly quartz and muscovite-rich schists with disseminated and massive sulphide lenses, mainly pyrite and pyrr-The hanging-wall rocks consist of felsic pyroclastics hotite. containing minor disseminated pyrite and pyrrhotite. The sulphides would appear to be of volcanogenic origin, deposited by volcanic exhalative processes penecontemporaneously with their host rocks.

The most important occurrences of this type are the Geneva Metals Incorporated (Geneva Lake Mine)(5) and the Stralak deposits [H. Barry (Stralak Deposit East)(2), Confederation

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Mining Corporation Limited (Stralak Deposit West)(4)], both of which contain appreciable amounts of sphalerite and galena. Similar occurrences, although apparently containing no or only minor basemetals, are located in northern Hess, southwestern Munster, northern and western Moncrieff, northern Craig and south eastern

Gilbert Townships."

8.2 <u>Stralak Deposit</u>

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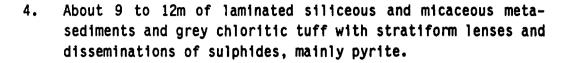
The following description is from Card and Innes (1981):

"The eastern mineralized zone is approximately 500m long and up to 18m thick and dips southward at angles of 45° to 55°. The main mineralized part of this zone is about 255m long and up to 3m thick with a number of massive sulphide lenses up to 2m thick.

There are some ten pits along this zone, exposing disseminated and massive sulphides. In the eastern most pit, sulphides, mainly pyrite and pyrrhotite, are present in thinly laminated siliceous metasediments rich in sericite over a width of 3.6m. The sulphides form stratabound disseminations and lenses.

In the next large pit to the west there is a lens of massive, sphalerite-rich sulphide mineralization in 3m thick. This pit displays a stratagraphic sequence typical of the better mineralized parts of both the east and west zones. This sequence is as follows:

- 1. Footwall rocks; mafic metavolcanics rich in chlorite, epidote and quartz and commonly containing disseminated sulphides, including chalcopyrite, pyrite, and pyrrhotite.
- 2. Approximately 1.5m of green and grey siliceous tuff and metasediment with disseminated pyrite and chalcopyrite.
- 3. Main mineralized zone; up to 3.6m of massive and disseminated sulphides commonly display stratiform layering and are intercalated with light grey siliceous metasediment (chert).



5. Hanging wall rocks; light grey to pink, bedded felsic tuff with minor disseminated stratiform sulphides.

The western zone, exposed over a strike-length of about 200m is up to 15m thick, and dips southward at angles of 50° to 65°. The main mineralized part of the zone is about 120m long and approximately 1.8m thick.

The massive sulphide lenses consist of pyrite, sphalerite, chalcopyrite, and galena in about that order of abundance (Photo 7). The sphalerite is an iron rich, dark brown to black variety. The pyrite is typically coarse grained and has a distinctive "buckshot" texture with large (5mm to 1cm), deformed rounded grains of pyrite in a fine-grained sphalerite-rich matrix. Where effects are visible, the pyrite grains have been fractured and elongated to form a rodding lineation."

8.3 <u>Straight Lake Sulphide Occurrence</u>

The main sulphide showing on the property consists of massive pyrite and pyrrhotite with traces of chalcopyrite and sphalerite. The showing occurs at the contact between mafic volcanic to the north and siliceous mineralized sediments to the south. The siliceous sediment unit which hosts the sulphide mineralization was traced for a total strike length of 900m. The mineralized horizon has several trenches and pits along it including a 2.5 x 3m pit which tested the showing at L1+50E. This mineralized horizon is likely the same horizon as that which hosts the Stralak deposit. (See Table 1 for sampling results.)

The metasediment unit-metavolcanic contact in the south part of the property may represent second favourable horizon for zinc-copper mineralization.

9.0 <u>SOIL GEOCHEMISTRY</u>

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A total of approximately 220 B-horizon soil samples were collected at 25m intervals along the north-south lines spaced 50m apart in the detailed area and 100m apart in the remainder. All six claims were covered by the survey. The podzoil soil profile was well developed and the B-horizon was located 10-20cm from the surface. The soil on the property is probably residual or glacially transported a short distance.

Results from the soil sampling were, for the most part, low although weakly anomalous zinc and lead values were returned from samples taken over the siliceous sedimentary unit which hosts the sulphide mineralization.

Additional weakly anomalous zinc and lead values occur north of the baseline on L8B and 9B near magnetic anomalies. The soil and magnetic anomalies suggest that there is a possible second mineralized horizon in this area.

A few weakly anomalous lead and zinc values were returned from samples taken near the diabase dyke which crosses the southern portion of the property.

10.0 MAGNETOMETER SURVEY

A proton procession, Geometrics 816 magnetometer was used to take total magnetic field strength measurements. Readings were taken at 12.5m intervals on 50m spaced lines in the detailed grid and on 100m spaced lines on the remainder of the grid. Corrections were made using closed-loops along Corrections less than 20 gammas were ignored. a corrected baseline. Instrument sensitivity is thought to be ± 2 gammas. A base level correction of 58,000 was used to render most of the readings positive. The magnetic survey shows several highs. One high in the area of the main sulphide showing is probably due to magnetic and pyrrhotite at the showing. The second high in the south east part of the property may be due to the extension of the diorite dyke mapped near the railway however, given the location in the stratigraphy this high may represent a sulphide zone at volcanic sediment contact. This anomaly warrants further magnetometer work and mapping to determine if the high is caused by the dyke.

Anomalous magnetic highs and lows also occur north of the baseline on L8B and 9B. These anomalies are worthy of follow-up and may reflect sulphide mineralization.

11.0 CONCLUSIONS AND RECOMMENDATIONS

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- The main Straight Lake showing consists of massive pyrite and pyrrhotite at the contact between mafic volcanic to the north and siliceous mineralized metasediments. The mineralized horizon was traced for 900m in strike. This horizon is likely the same horizon which hosts the Stralak deposit.
- 2. A second metasediment volcanic contact in the southern part of the property may offer potential for sulphide mineralization. Additional magnetometer work and mapping is needed in this area to determine if a magnetic high is caused by an extension of a dyke or by sulphides at the sediment-volcanic contact.
- 3. Results from the soil sampling returned weakly anomalous lead and zinc values for samples taken over or near the siliceous sedimentary unit which hots the sulphide mineralization.
- 4. Results from rock chip sampling of the sulphide mineralization and/or the siliceous sedimentary unit returned up to 455ppm Zn, 434ppm Pb, 423ppm Cu, and 1.2ppm Ag.
- 5. The sulphide showing is reflected by a marked magnetic response. Two other magnetic anomalies are judged worthy of follow-up and may reflect sulphide mineralization.

12.0 AUTHOR'S QUALIFICATIONS

R. Michael Jones

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Education:

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B.A.Sc. University of Toronto Geological Engineering, 1985

Memberships:

Prospectors and Developers Association Northern Prospectors Association

Experience:

Three years in mineral exploration and summer experience

Dennis M. Gorc

I, DENNIS M. GORC, geologist, residing at #202-270 West 1st Street, North Vancouver, in the Province of British Columbia, hereby certify that:

- 1. I received a B.Sc. (Engineering) degree from Queen's University, Kingston, Ontario in May of 1976.
- 2. Since 1976, I have supervised mineral exploration programs in British Columbia, Ontario, Manitoba and the Northwest Territories.
- 3. I am presently a staff geologist with Imperial Metals Corporation of Suite 800-601 West Hastings Street, in the City of Vancouver, Province of British Columbia.

DATED this le day of <u>August</u>, 1988 in the City of Vancouver, Province of British Columbia.

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APPENDIX I	Α	Ρ	Ρ	Ε	Ν	D	I	X		I
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LIST OF REFERENCE ROCK SPECIMENS

A P P E N D I X I

LIST OF REFERENCE ROCK SPECIMENS

<u>Str. Ref</u> .	<u>Locations</u>	Description
1	L1+50E, 0+25S	Main sulphide showing
2	L1+00E, 0+50S approx.	Massive mafic volcanic
3	L1+00E, 0+75S approx.	Gabbro
4	-	-
5	L1+00E, 1+25S approx.	Hornblende gneiss
6	2+75E, 0+50S	Siliceous mineralized trench
7	L1+50S, 0+25S	Main showing area
8	L1+50S, 0+25S	Siliceous rock S. wall pit
9	L1+50S, 0+25S	Siliceous rock N. wall pit
10	L0+50E, 0+50S	Siliceous sediments
11	L0+50E, 1+00S	Hornblende gneiss
12	L1+00E, 1+00S	Small pit sulphides
13	L1+50E, 0+25S	Gabbro
14	L7E, 0+50S	Greywacke sediment
15	L2E, 4+00S	Fine banded greywacke
16	L9E BLO	Siliceous tuff(?)
17	L8E 0+25S	Wacke(?)
18	L7E BLO	Siliceous sediment
19	LO+50E, BLO	Wacke
20	L1+50, 0+30S	Main pit sulphides
21	L1+50, 0+30S	Main pit rubble

A P P E N D I X II

ROCK GEOCHEMICAL DATA

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GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 MCL-HHO3-H20 AT 55 DEG. C FOR ONE MOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MM FE CA P LA CE NG BA TI B W AND LIMITED FOR MA E AND AL. AU DETECTION LIMIT BY ICP IS 3 PPN. - SAMPLE TIPE: ROCK AU* ABALTEIS BY AN PROM 10 GRAM SAMPLE. n P

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										MPERI	- <i>V</i>			' PROJ	ECT	-715	5	Fil	e #	88	-169	6										
	SAMPLE	No PPN	CU PPN	Pb PPN	In PPN	Ag PPN	NÍ PPN	Co PPN	Kn PPK	Te X	λs PPK	U N99	55K Ya	Th PPM	ST PPN	Cd PPH	Sb PPK	BI PPX	V PPN	Ca N	2 1	La PPK	20 29K	Ng L	Ba PPK	71 4	B PPK	A1 \$	Xa \$	K L	W PPK	Au* PPB
f 9	STR-88-01	1	364	5	417	.9	126	65	168	38.10	13	5	ND	3	1	1	2	5	10	.10	.013	5	5	.15	6	.03	2	.44	.01	.03	1	1
	STR-88-02	1	423	204	455	1.2	54	45	344	12.64	6	6	XD	2	11	3	2	2	34	.41	.970	15	29	.51	1	.11	- 4	. 83	. 02	. 06	1	2
	STR-88-03	1	102	\$6	228	.4	41	17	516	6.11	4	5	TD	- 1	15	1	2	2	40	.61	.080	22	- 16	1.00	j	.21	Ē	1.12	.04	. 06	1	1
	STR-88-04	1	98	62	204	.1	43	16	1149	5.26	2	5	1D	5	14	1	2	2	44	.67	.088	24	61	1.12	1	.23		1.20	. 02	.07	1	1
	57R-88-05	2	35	17	151	.1	22	10	226	3.31	4	5	n	2	14	1	2	2	28	.30	.051	13	19	.72	21	.07	13		. 05	.13	1	1
	STR-88-06	1	287	9	153	. 6	88	42	248	28.20	2	5	XD	3	6	1	2	2	23	.26	.013	7	24	.36	3	.12	2	. 66	. 02	.08	1	1
r	STR-88-07	1	144	17	257	.5	- 55	27	493	15.76	2	5	ID	2	1	1	2	2	30	.36	. 858	11	28	.56	1	.14	6	.79	.04	. 09	1	5
	STR-88-08	1	163	108	106	.6	65	31	248	14.86	21	5	KD	1	10	1	2	2	36	.13	.097	18	29	.51	11	.17	11	.14	.02	.08	1	1
	STR-88-09	1	82	134	184	.6	31	15	426	7.90	2	ŝ	ID.	3	1	i	2	2	30	.27	.047	10	23	1.15	12	.10		1.20	.02	.11	1	1
han	STR-88-10	1	34	16	\$2	.1	19	12	\$76	4.40	4	5	ND	1	13	1	2	2	53	.45	.#51	18	33	.92	114	.21		1.70	.07	.41	1	2
	STR-88-11	1	127	16	42	.1	54	35	527	12.65	,	6	ND		,	1	,	,	41	.32	.461	20	27	.92	17	.11	6	1.33	. 02	.10	2	1
	STR-18-12	í	32	20	82	;	26	13	340	3.40	;	ŝ	ID	i	20	1	;	;	27		.147	13	21	.65	20	.11	-	1.12	.04	.16	;	
-	572-88- 13	i	374	17	182		102	70	307	26.63	2	š	10	3	- i	i	;	2	35	.35	. 860	15	35	.61		.11		1.02	. 02	.09	i	i
	STR-88-14	i	11	1	11	.1	51	21	227	6.36	,	ŝ.	m	i	i	i	;	,	39		.105	15	- 41	.0	ŝ	.24	2	.62	.04	.05	i	1
	ST2-88-15	ì	56	i	38	.1	27	14	224	4.75	2	5	n	1	15	i	2	2	31	.1)	.169	12	33	. 65	i	.17	j	.90	.04	. 08	2	i
	STR-88-16	111	29	110	123	.6	11	1	249	1.57	5	5	ND	6	1	1	2	3	16	.23	.016	12	16	.59	12	.07	· \ • •	.75	.03	.13	2	2
	STR-88-17	1	32	1	47	.1	18	10	614	3.54	2	5	ND	6	27	1	2	2	13	.59	.#45	15	39	.95	13	.23	2	1.62	.02	. 09	2	1
	STR-88-18	i	34	n	16	.1	20	12	708	4.11	2	5	KD	1	15	1	ž	ž	50		.113	11		1.16	12	.25		1.75	.01	. 09	1	1
	STD C/AU-R	21	63	- ii	133	7.6	69		1149	4.14	ū	19	Ĩ	-ú	53	19	16	19	59		.#96	10	61	.90	188	.91		1.78	. 06	.15	14	520

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

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WHOLE ROCK ICP ANALYSIS

A .1000 GRAN SAMPLE IS FUSED	WITH .60 GRAM OF LIBO2 AND	IS DISSOLVED IN 50 KLS 5% HNO3.
- SAMPLE TTPE: ROCK		$\rho \rho$

Ñ June 8/88 ASSAYER DATE REPORT MAILED: DATE RECEIVED: JUN 01 1988 IMPERIAL METALS PROJECT-7155 File # 88-1696

SAMPLE#	\$\$102 \$	A1203 %	Fe2O3 %	MgO %	CaO %	Na20 %	к20 %	T102 %	P205 %	MnO %	Cr2O3 ع	Ba PPM	LOI %	SUM %
STR-88-01	20.11	3.84	50.84	.46	.71	.68	.61	.13	.06	.03	.01	118	22.4	99.9 0
STR-88-02	51.63	12.52	18.45	2.09	3.14	3.38	1.84	.66	.17	.07	.01	422	5.8	99.83
STR-88-03	61.47	14.18	8.58	2.26	3.88	3.42	1.97	.74	.18	.08	.01	494	3.1	99.95
STR-88-04	63.03	14.52	7.02	2.30	4.04	3.34	2.04	. 82	.20	.08	.01	527	2.4	99.89
STR-88-05	68.86	14.49	4.06	1.40	1.92	2.62	2.97	.40	.11	.03	.01	748	3.0	100.00
STR-88-06	33.11	7.87	41.26	1.27	1.67	1.77	1.22	.43	.13	.04	.01	258	11.2	100.02
STR-88-07	46.79	12.44	22.99	2.04	2.76	2.72	2.15	. 58	.15	.08	.01	2296	6.7	99.80
STR-88-08	45.78	11.31	20.54	3.42	3.28	2.55	2.78	.63	.23	. 08	.01	606	9.2	99.91
STR-88-09	60.63	14.53	10.45	2.16	2.12	2.91	2.34	.45	.11	.05	.01	420	4.1	99.93
STR-88-10	72.20	12.15	5.41	1.42	2.64	2.28	1.52	.53	.12	.08	.01	411	1.6	100.03
STR-88-11	50.42	15.11	17.20	1.95	1.76	3.34	2.93	. 52	.16	.06	.01	894	6.3	99.91
STR-88-12	69.02		4.32	1.28	3.05	2.65	2.15	.40	.10	.04	.01	448	2.6	100.07
STR-88-13	32.47	8.62	40.60	1.74	2.35	1.13	1.85	.54	.16	.05	.01	267	10.4	99.97
STR-88-14	56.55		10.01	3.77	5.46	4.06	1.92	.96	.26	.11	.02	355	2.4	99.85
STR-88-15	64.18		6.32	2.43	3.93	2.70	2.26	.58	.16	.05	.01	414	3.9	99.98
STR-88-16	79.07	10.78	1.95	.95	.77	3.05	2.50	.18	.03	.02	.01	269	.6	99.96
STR-88-17	71.68		4.73	1.47	3.06	1.58	2.19	.51	.10	.07	.01	464	2.3	100.07
STR-88-18	69.74		5.16	1.73	2.58	2.10	2.70	.54	.10	.07	.01	515	1.9	99.91
STD So-4	67.50		3.41	1.03	1.49	1.41	2.19	.51	.22	.08	.01	734	11.5	99.52

APPENDIX III

SOIL GEOCHEMICAL DATA

ACME ANALYTICAL LABORATORIES LTD.

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GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAN SAMPLE IS DIGESTED WITH JML 3-1-2 HCL-RH03-H20 AT 55 DBG. C FOR OUR MOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACE IS PARTIAL FOR ME PE CA P LA CE ME BA TI B W AND LIMITED FOR WA E AND AL. AN DETECTION LIMIT BY ICP IS 3 PPM. ~ P

- SAMPLE TYPE: SOIL AD AMALTRIS BY AN PROM 10 GRAM SAMPLE.

						SAXPLE				· AFALI						•		ρ	P	,												
	DATE RECEIVED	:	JON 0	1 1981) I	DATE	REF	ORT	MAI	LED	÷Je	ine	. 9	/88	А	88A1	/BR.	<u>(</u>	. .	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	.D.T	OYE	OR	C.L	ONG	, CE	RTI	FIED	в.	c. #	SSA	YERS
								IM	PBR	IAL	META	LS	PROJ	JECT	-71	15	F1	le #	88	-169)5	Pa	ge 3	L								
Γr.	SAMPLE	No PN	Cu PPN	Pb PPN	Ia PPX	-		Co PPH	Na PPK		55K ye	0 PPN	Yn 55K	Th PPK	ST PPM	Cd PPH	68 1199	Bi PPK	66X A	Ca ł		La PPX	CT PPN	Ng ł	84 898	ti t	B PPN		¥a Ł	K ł	¥ PPN	Au* PPB
	SL0+50E 0+25W SL0+50E 0+00S SL0+50E 0+25S SL0+50E 1+00S SL0+50E 1+25S	4 1 1 2 1	45 13 21 16 20	39 31 61 8 13	71 53 51 53 62	.1 .4 .1	14 17 15	6 5 5 4 9	343 120	2.45	3 2 2 2 2	5 5 5 5 5	10 10 10 10 10	3 3 1 3 7	10 14 10 8 15	1 1 1 1 1	2 2 2 2 3	2 3 5 2 3	45 60 30 40 64	.14 .15 .14 .11 .21	.029 .042 .035	56 7 11 8 33	54 29 31 31 46	.31 .19 .25 .16 .51	30 50 21 28 28	.08 .11 .09 .11 .20	2	3.19 1.14 1.38 1.81 2.73	.01 .01 .01 .01 .02	.05 .05 .05 .04 .04	1 1 1 1	1 1 2 1 1
4. Bar.	SL1+00E 0+25N SL1+00E 0+00S SL1+00E 0+25S SL1+00E 0+50S SL1+00E 0+75S	1 1 2 2 1	4 5 22 21 15	6 53 38 25 23	19 81 48 48 51	.1 .1 .1 .1	4 22 14 9 13	1 4 4 3	73	2.66	2 2 4 3 2	5 5 5 5 5	ND ND ND ND	3 4 3 2 1	10 11 10 10 12	1 1 1 1	4 2 2 2 2 2	2 4 2 3 2	15 40 40 44 35	.09 .14 .11 .19 .14	.037 .021 .015	10 12 9 13 7	9 78 27 20 17	.05 .23 .15 .15 .13	13 36 32 28 23	.07 .15 .12 .14 .12	12		.01 .01 .01 .01 .01	.03 .04 .05 .04 .03	1 1 1 1	1 1 2 1
	\$L1+00E 1+00S \$L1+00E 1+255 \$L1+00E 1+39S \$L1+00E 3+005 \$L1+00E 3+255	1 2 5 1 1	26 22 44 45 7	9 17 40 16 15	54 35 108 48 40	.1 .1 .1 .1	18 20 33 42 15	7 5 11 12 4	53 215	4.20 2.56	2 2 5 2 2	5 5 5 5 5	ND ND ND ND ND	1 3 2 7 4	15 9 9 16 10	1 1 1 1 1	2 2 2 2 4	2 2 2 2 2 2	30 38 59 42 38	.19 .09 .10 .23 .12	.030 .024 .051 .025 .023	1 0 77 15 1	22 20 40 50 31	.23 .11 .20 .61 .16	26 14 33 28 24	.10 .10 .06 .16 .13	2 3 17	1.18 2.34 2.08 1.87 1.58	.01 .01 .01 .01 .01	.03 .05 .06 .06 .03	1 2 1 1 1	1 1 2 1
	SL1+00R 3+75S SL1+00R 4+00S SL1+00R 4+25S	1 1 1 1	# 11 5 19 7	9 14 13 18 10	33 29 35 48 41	.1 .2 .1 .1	11 13 10 24 16	5 5 2 5	\$0 191 175	2.89 2.42 1.73 3.50 2.51	2 2 2 2 6	5 5 6 5	10 10 10 10	1 4 2 4 3	12 10 10 11 9	1 1 1 1	2 3 2 3 2	2 3 2 2 3	50 44 27 46 34	.12 .10	.027 .016 .019 .055 .031	7 11 9 11 19	29 26 19 39 38	.13 .18 .10 .31 .18	40 29 28 33 37	.17 .16 .09 .14 .11	5 5 3	1.00 1.28 1.14 2.01 1.99	.01 .01 .01 .01 .01	.03 .05 .01 .04 .04	1 1 1 1 2	1 1 1 2
	SL1+50E 0+25N SL1+50E 0+00S	1 1 1 1	17 8 16 8 9	13 22 35 16 28	60 65 64 95 43	.1 .1 .1 .1	37 12 17 13 19	10 3 5 4 4	265 145 78	4.36 1.39 3.07 2.42 2.21	6 3 3 2 7	5 5 5 5 5	ND ND ND ND	2 3 4 2 4	19 13 14 9 9	1 1 1 1 1	2 2 2 2 4	6 2 2 2 4	82 28 45 34 34	.14 .20	.034 .014 .038 .034 .024	6 5 9 8 7	206 23 43 28 39	1.42 .15 .35 .13 .19	22 23 20 27 22	.20 .09 .15 .10 .12	7 2 10	1.82 .81 1.91 1.98 1.78	.01 .01 .01 .01 .01	.04 .04 .05 .05 .05	1 1 1 1	1 2 1 1 2
	SL1+50E 1+00S SL1+50E 1+25S	2 2 2 1 1	9 30 13 8 10	24 28 15 12 21	72 66 40 46 32	.2 .1 .1 .1 .1	15 34 11 22 9	6 10 3 5 3	97 121	2.47 3.11 2.21 2.77 2.90	2 6 3 2 4	5 5 5 5 5	ND ND ND ND	2 3 2 4 2	13 15 16 10 9	1 1 1 1	3 2 3 6 2	4 3 3 2 2	50 49 54 39 79	.19 .14 .12	.021 .031 .032 .036 .038	14 9 7 8	24 42 22 35 25	.20 .37 .14 .19 .09	35 36 28 32 32	.15 .16 .17 .11 .19	4	1.54 2.14 .73 2.34 .65	.01 .01 .01 .01 .01	.03 .05 .06 .05 .04	1 1 1 1	1 1 1 1
	SL2+00E 0+50S SL2+00E 0+75S SL2+00E 1+00S	1 1 6 3	7 14 14 13 29	14 8 20 14 14	56 39 38 38 60	.1 .1 .1 .1	19 17 19 20 32	7 4 5 5 14	91 97 86	3.07 2.51 2.05 2.28 2.82	2 2 3 5 2	5 5 5 5 5	ND ND ND ND	2 3 2 2 4	12 9 10 12 11	1 1 1 1	3 2 3 2 4	2 6 4 1 2	44 33 34 40 42	.13 .13	.044 .034 .027 .021 .032	8 11 12 9 16	32 32 30 31 36	.19 .14 .25 .22 .33	33 27 25	.13 .09 .11 .13 .14	2 2 2	2.18 2.62 1.65 1.65 2.26	.01 .01 .01	.04 .03 .03 .03 .04	1 1 1 1	2 1 1 1 7
	SL2+00E 1+50S 2 STD C/AU-S 2	2	13 62	3 43	53 135	.1 7.8	18 73	5 31	96 1103	2.58 4.16	2 42	5 20	ND B	3 40	15 50	1 20	4	2 21	37 60		.039 .092	3 40	29 61	.14 .90		.10 .08		2.27 1.93	.01 .08	.06 .16	1 15	1 49

IMPERIAL METALS PROJECT-7115 FILE # 88-1695

SAMPLE	No PPN	Cu PPN	Pb PPN	ID PPN	Åg PPK	¥i PPN	Co PPK	Xa ?PK		F5K Y2	0 858	ya Ya	dT XS2	ST PPK	Cđ PPK	8b ??X	Di PPN	7 7211	Ca 1	ł	La PPN	Cr PPK	Kg ł	84 228	TÍ Ł	B ??M	21 - 4	¥1 1	r 1	W PPN	Au* PPB	
SL2+008 3+255 SL2+008 3+505 SL2+008 3+755 SL2+008 4+005 SL2+008 4+255	1 1 2 1	7 18 20 12 20	10 9 12 11 9	32 38 31 22 32	.1 .1 1.2 .1 .1	9 16 12 5 25	6 8 5 4 7	105 283 104 60 89	1.84 2.67 1.86	2 2 2 2 2 2	5 5 5 5 5	HD HD HD HD	3 3 4 2 4	12 11 14 11 11	1 1 1 1 1	2 2 2 2 2 2	2 2 2 2 2 2	62 37 47 41 38	.16 .14 .18 .10 .13	.010 .018 .055 .017 .019	8 11 13 11 14	25 30 39 21 36	.21 .28 .23 .11 .24	19 40 22 22 36	.15 .11 .11 .11 .11	1	1.03 1.18 2.51 .87 2.24	.01 .01 .01 .01 .01	.01 .01 .01 .01 .02	1 1 1 1 1	5 6 3 10 2	
\$12+008 4+355 \$12+508 0+508 \$12+508 0+258 \$12+508 0+258 \$12+508 0+255 \$12+508 0+255	1 1 1 1 1	11 3 6 5 14	9 8 13 15 11	17 32 41 58 47	.1 .1 .1 .1	8 18 15 17 19	4 6 7 8 9	42 113 198 269 485	2.42 2.11 2.49	3 3 4 2 8	5 5 5 5 5	ND ND ND ND	3 4 3 3 5	8 12 13 12 16	1 1 1 1 1	2 2 2 2 2 2	2 3 2 2 2	26 46 33 38 44	.9\$.13 .14 .13 .22	.019 .024 .026 .035 .047	11 11 9 13 12	22 29 31 34 34	.03 .18 .18 .21 .36	16 41 46 52 36	.07 .12 .10 .11 .13	3 8 10		.01 .01 .01 .01 .01	.02 .02 .03 .03 .04	1 1 1 2	1 14 1 5 4	
\$12+508 0+505 \$12+508 0+755 \$12+508 1+005 \$12+508 1+255 \$12+508 1+505	1 1 2 1 1	1 2 31 11 5	10 13 44 9 9	38 39 47 82 34	.1 .1 .1 .1	21 20 31 22 10	9 7 9 11 5	112 105 117 424 102	2.35 3.04 2.42 3.01 1.57	7 3 8 2 5	5 5 5 5 5	ID ID ID ID	4 5 2 3	11 10 14 7 9	1 1 1 1	2 2 4 2 2	2 2 2 2 2 2	36 51 47 55 26	.12 .12 .15 .17 .12	.031 .020 .026 .027 .040	11 11 30 8 9	33 36 35 47 22	.23 .29 .33 .67 .16	31 35 35 39 17	.10 .14 .14 .24 .07	14 4 15	2.23 1.93 2.18 1.76 1.23	.01 .01 .01 .01 .01	.04 .02 .03 .04 .01	1 1 1 1	3 8 11 2 1	
SL2+SOE 1+755 SL2+SOE 2+005 SL3+00E 0+50M SL3+00E 0+25M SL3+00E 0+005	1 1 2 1 1	23 \$ 4 3 4	14 12 16 9 7	40 21 37 63 41	.1 .1 .1 .3	22 15 6 10 7	9 5 6 4 3	111 76 91 206 171	2.24 .99 2.61 1.44 1.76	5 2 2 3 2	5 5 5 5 5	ND ND ND ND	4 2 4 1 3	10 10 13 12 10	1 1 1 1 1	2 2 2 2 4	3 2 2 2 2 2	36 24 55 22 35	.12 .10 .13 .12 .10	.029 .009 .040 .035 .023	11 12 9 8 10	38 26 24 21 20	.25 .25 .15 .12 .11	15 8 30 36 30	.11 .10 .13 .06 .10	3	2.21 2.13 1.11 1.16 .88	.01 .01 .01 .01 .01	.01 .01 .04 .02 .02	2 1 1 1 2	1 1 1 1	
\$L3+00E 0+255 \$L3+00E 0+505 BL3+00B 0+755 \$L3+00E 1+005 \$L3+00E 1+255	1 1 1 2 1	6 9 17 8 20	11 10 24 13 13	58 43 60 36 109	.2 .1 .1 .1 .2	15 15 20 14 38	7 5 6 5 16	108 78	2.18 2.32 1.98 2.49 4.31	4 7 4 9 6	5 5 5 5 5	ND ND ND ND ND	3 2 4 3 3	11 10 12 13 9	1 1 1 1	2 2 1 2 2 2	2 2 2 2 2 2	32 33 31 47 80	.12 .12 .13 .11 .15	.039 .036 .026 .021 .043	8 9 5 8 10	31 30 33 28 58	.19 .18 .18 .11 1.10	30 27 37 39 54	.10 .09 .09 .11 .30	3 2 4	2.19 1.78 2.03 1.74 2.45	.01 .01 .01 .01 .01	.03 .02 .03 .03 .06	1 1 1 1	2 3 1 1 2	
SL3+008 1+505 SL3+008 2+005 SL3+008 2+255 SL3+008 4+005 SL3+008 4+255	1 1 1 1	11 4 20 2 7	15 10 17 4 15	75 23 50 20 40	.1 .1 .2 .1 .1	14 7 29 8 16	7 3 6 3 6	57 156 58	3.41 .83 1.78 1.45 2.49	4 2 2 3	5 5 5 5 5	ND ND ND ND	2 2 6 2 4	9 9 11 9 11	1 1 1 1 1	2 2 2 2 2	2 2 2 2 2	56 22 40 43 41	.10	.677 .013 .018 .010 .038	7 9 24 8 11	35 32 37 20 34	.26 .16 .45 .13 .23	35 20 23 19 23	.15 .09 .14 .13 .10	3 2 2	2.23 2.15 2.41 .71 1.82	.01 .01 .01 .01 .01	.02 .01 .02 .01 .02	1 1 1 2	2 1 1 1 2	
BL3+50E 0+50N BL3+50E 0+25N BL3+50E 0+25N BL3+50E 0+25S BL3+50E 0+25S BL3+50E 0+30S	3 2 2 3 1	1 8 4 5 11	17 10 12 13 14	20 52 47 61 107	.1 .2 .1 .1 .1	3 12 7 8 19	1 4 2 3 6	159 205	.81 1.64 1.95 1.76 1.75	2 5 8 4 5	5 5 5 5 5 5	10 10 10 10 10	2 2 2 2 1	10 14 11 12 18	1 1 1 1	2 2 2 2 2 2	2 2 2 2 3	31 29 35 29 25	.21 .12	.012 .065 .067 .083 .088	7 14 9 9 11	11 21 16 21 30	.05 .22 .10 .13 .24	14 20 30 35 69	.11 .11 .08 .09 .08	5	.39 .76 1.13 .83 1.02	.01 .01 .01 .01 .01	.03 .02 .03 .02 .05	1 1 1 1	1 1 1 1	
SL3+50E 0+755 STD C/AU-S	6 20	65	19 42	38 130	.2 7.4	11 74	4 30	77 1100	2.68 4.14	4 43	5 16	ND 1	2 40	12 53	1 20	2 17	2 23	48 63		.028 .094	8 40	27 63	.14 .89	26 181	.13 .08	3 35	1.48 2.04	.01 .07	.03 .15	2 13	1 19	

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IMPERIAL METALS PROJECT-7115 FILE # 88-1695

SAMPLE	No PPN	Cu PPN	Pb PPK		λg PPN	NI PPK	Co PPN	No PPK	Te 3	λs PPN	U PPN	Au PPK	Th PPN	ST PPK	Cđ PPK	SD 27M	B1 PPN	V 22K	Ca k		La PPK	CT PPN	Ng t	Ba PPK	ti 1	B PPN	A1 \$	Na t	r ł	W PPN	λu* PPB
SL3+508 1+005 SL3+508 1+505 SL3+508 2+005 SL3+508 2+228 SL4+008 0+50W	2 1 3 4 3	20 14 18 34 3	22 19 20 23 22	62 44 67 73 40	.1 .2 .1 .1 .2	19 11 17 26 5	9 4 13 14 3	287 169 250 64 49	1.70 3.90 2.17	6 2 2 2 2 2	5 5 5 5 5	ND ND ND ND	3 1 5 9 4	16 13 7 6 10	1 1 1 1 1	2 2 2 2 2 2	2 2 5 5 5	62 29 32 48 53	.21 .13 .08 .09 .10	.031 .023 .018	9 10 58 80 10	41 21 27 40 23	.33 .14 .10 .11 .10	27 33 36 52 20	.17 .07 .04 .04 .15		2.35	.01 .01 .01 .01 .01	.05 .04 .02 .02 .02	2 2 1 2 2	3 1 1 1 1
SL4+008 0+25N SL4+008 0+005 SL4+008 0+25S SL4+008 0+50S SL4+008 0+75S	3 1 1 2 1	13 11 12 4 29	10 12 42 35 12	55 70 49 22 50	.1 .1 .1 .1	12 9 16 4 16	7 3 5 2 6	105 104 43	2.85 2.97 1.58 1.79 2.32	2 4 2 2 5	5 5 5 5 5	ND ND ND ND ND	2 2 4 1 4	9 12 12 10 11	1 1 1 1	2 2 2 2 2 2] 2 2 4 5	37 56 35 61 40	.05 .16 .14 .08 .14	.103	10 7 12 5 12	35 40 29 13 34	.13 .12 .28 .06 .29	37 37 20 15 18	.08 .13 .14 .15 .12	5	1.17	.01 .01 .01 .01 .01	.03 .04 .03 .01 .03	1 2 1 2 1	1 1 2 1
SL4+00E 1+00S SL4+00E 1+25S SL4+00E 1+50S SL4+00E 1+75S SL4+00E 2+00S	1 2 1 4	4 10 15 38 19	15 15 5 15 27	30 28 46 50 51	.1 .1 .1 .1	8 12 19 72 25	3 5 6 7	- 14 144	1.95 1.85 2.94 1.46 3.00	2 2 2 3	5 5 5 5 5	ND ND ND ND ND	2 3 5 9 5	11 11 15 13 6	1 1 1 1	2 3 2 2 4	2 2 3 3	42 37 37 28 35	.10 .11 .17 .20 .08	.017 .014 .044 .037 .027	9 14 9 46 45	19 24 42 33 24	.09 .10 .24 .34 .08	21 24 29 24 19	.13 .11 .11 .08 .03	13 3 8 3 5	.71 1.14 2.91 1.32 1.27	.01 .01 .01 .01 .01	.03 .03 .04 .02 .03	1 2 1 1 2	1 1 1 1
SL4+00E 2+255 SL4+00E 2+505 SL4+00E 4+005 SL4+50E 1+00N SL4+50E 0+75N	5 5 1 1 1	26 36 10 5 9	40 42 16 5 13	102 109 55 45 75	.1 .1 .1 .1	21 35 13 9 11	23 28 5 4 5	462	4.83 6.92 2.27 .87 2.15	16 10 4 2 2	5 5 5 5	ND ND ND ND ND	6 4 3 3	7 7 11 10 10	1 1 1 1 1	2 2 2 2 2 2 2	2 8 4 3 2	52 54 26 23 34	.15 .09 .19 .11 .12	.027 .040 .035 .017 .034	34 64 21 10 10	38 37 22 25 31	.10 .08 .17 .14 .19	37 48 23 20 30	.03 .03 .05 .08 .09	5 5 2	2.05 2.01 .93 1.62 1.99	.01 .01 .01 .01 .01	.04 .04 .01 .01 .01	1 1 1 2 1	1 1 1 1
SL4+50E 0+50N SL4+50E 0+25N SL4+50E 0+005 SL4+50E 0+255 SL4+50E 0+505	1 3 2 2 1	5 21 28 14 24	17 26 16 24 27	60 83 36 40 60	.1 .2 .4 .1 .1	7 17 18 6 16	5 5 8 2 7	191 99 66	2.74 4.53 4.30 3.24 3.41	3 3 4 2 3	5 5 5 5 5 5	ND ND ND ND ND	3 3 3 4	10 11 9 15 11	1 1 1 1	2 2 2 2 2 2	3 5 5 5 6	62 64 65 62 43	.09	.026 .066 .036 .020 .041	9 9 9 9 13	25 53 38 27 43	.10 .36 .30 .09 .24	25 31 24 18 20	.14 .13 .21 .16 .12	3	1.48 2.07 3.38 1.12 3.07	.01 .01 .01 .01 .01	.03 .05 .05 .03 .04	1 1 2 2 1	1 1 1 1 1
\$L4+508 0+755 8L4+508 1+005 8L4+508 1+255 8L4+508 1+505 8L5+008 1+008	1 2 1 1	12 12 14 7 6	16 13 18 8 13	73 41 53 42 49	.2 .1 .1 .1 .1	11 12 16 11 16	6 4 3 7	196 70	2.18 2.39 2.90 2.06 3.10	5 2 7 2 10	5 5 5 5 5	ND ND ND ND	3 3 2 2 5	15 11 13 12 11	1 1 1 1	2 2 2 2 2	3 4 2 4	40 36 46 26 44	.12 ,12	.037 .037 .041 .026 .025	10 10 12 13 3	28 28 31 28 40	.32 .17 .18 .20 .19	34 28 42 23 26	.12 .10 .12 .08 .13	2 10 6	1.59 1.73 1.77 1.68 1.89	.01 .01 .01 .01 .01	.05 .03 .05 .03 .03	1 1 1 2 1	220 1 1 1 1
\$L5+00E 0+75N \$L5+00E 0+56N \$L5+00E 0+25N \$L5+00E 0+25S \$L5+00E 0+30S	2 2 2 1 2	4 15 13 7 10	13 26 20 18 72	43 62 35 35 124	.1 .3 .1 .2 .4	5 20 16 9 18	3 6 2 3	67 95 46	2.31 4.36 3.01 1.79 3.60	2 3 6 2	5 5 5 5 5	HD HD HD HD HD	3 5 3 3 3	10 5 11 9 10	1 1 1 1	2 2 2 2 3	2 5 2 4 2	42 65 61 31 43	.11 .09	.017 .030 .015 .024 .064	9 13 11 9 11	25 52 35 21 43	.10 .16 .26 .05 .28	21 24 18 23 18	.11 .11 .17 .07 .11	6 36		.01 .01 .01 .01 .01	.05 .03 .03 .02 .03	2 1 1 2 1	1 1 2 1
SLS+OOK 0+755 STD C/AU-S	1 20	8 63	10 37	51 132	.1 7.5	8 73	3 31	69 1112	1.43 4.24	7 43	5 17	ND 8	2 39	10 53	1 20	2 16	2 23	25 64		.075 .096	9 40	16 61	.08 .90		.07 .08	6 35			.04 .16	1 14	1 51

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IMPERIAL METAL PROJECT-7115 FILE # 88-1695

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SAMPLE !	No P pn	Cu PPN	Pb PPN	ID PPN	Åg PPN	W1 PPN	Co PPN	No PPX		λs PPX	0 ??#	20 228	Th PPK	5T 22X	Cd ??X	SD XSS	Bi PPN	¥ 228	Ca 1	? 1	11 293	CT PPN	Ng t	Ba PPX	. <u>Ti</u> 1	8 2211	71 1	Ka t	r ł	¥ PPN	Au* PPB	
SL5+008 1+00S 8L5+008 1+25S 8L5+008 1+50S 8L5+008 1+75S 8L5+008 2+50S	1 1 3 1	22 13 11 38 10	15 164 2 25 26	98 53 44 132 37	.1 .1 .1 .1	24 20 12 35 20	8 4 2 17 4	275 81 54 271 97	2.42 2.67 6.79	2 2 2 2 3	5 5 5 5 5	ND ND ND ND	2 1 1 4 3	13 # 7 27 15	1 1 1 1	2 2 2 2 3	2 2 2 2 2 2	56 30 34 111 30	.21 .10 .08 .60 .17	.040 .045 .125 .238 .011	5 8 7 17 8	26 39 33 33 20	.47 .21 .12 .87 .28	35 19 24 64 20	.18 .08 .06 .25 .18	7 6 4 4 7	2.87 2.76 2.18	.01 .01 .01 .01 .01	.07 .03 .03 .11 .05	1 1 1 1 2	1 4 1 1	
\$L5+00E 2+755 5L5+00E 3+005 \$L5+00E 3+255 \$L5+00E 3+505 \$L5+00E 4+005	1 1 5	10 9 13 26 29	15 9 16 29 24	21 28 40 111 151	.1 .1 .1 .1	12 15 20 22 25	4 5 19 36	52 70 92 568 769	4.01 1.22 5.24	2 2 4 2	5 5 6 5 5	ND ND ND ND	2 3 1 3 6	10 10 5 4 11	1 1 1 1 1	3 2 2 5 2	2 3 2 2 2 2	54 75 25 40 50	.09 .10 .11 .07 .12	.016 .023 .017 .042 .037	7 7 41 52 74	21 34 24 27 36	.10 .17 .25 .06 .10	22 37 26 25 65	.14 .20 .07 .02 .03	2 2 2	1.38 2.24 1.12 1.63 2.12	.01 .01 .01 .01 .01	.03 .03 .04 .05	1 1 2 1 1	1 3 2 1 1	
SL5+00E 4+75S SL5+00E 4+90S SL6+00E 1+00N SL6+00E 0+50N BL6+00E 0+25N	1 1 5 1	4 10 28 20 11	22 21 8 14 17	147 135 63 42 43	.1 .1 .2 .1	16 28 17 13 10	4 5 5 6 4	91 124 213 109 90	2.46	2 2 2 2 2	5 5 5 5 5	ND ND ND ND ND	3 4 3 3 3	11 11 10 11 8	1 1 1 1	4 2 3 2	2 4 2 14 2	25 34 36 97 46	.14 .18 .09 .10 .08	.021 .048 .049 .030 .034	9 9 7 6 7	30 49 34 46 28	.20 .31 .12 .23 .13	23 27 39 20 31	.09 .09 .07 .29 .12	2 4 2	1.70 1.81 2.26 1.75 2.72	.01 .01 .01 .01 .01	.05 .05 .03 .05 .04	1 1 1 2	1 4 1 2 5	
SL6+00E 0+00S SL6+00E 0+25S SL6+00E 0+50S SL6+00E 0+75S SL6+00E 1+25S	1 1 2 1	14 8 8 26 8	20 7 15 17 8	42 55 47 57 79	.1 .1 .1 .1 .2	11 12 13 22 20	4 3 4 6 6	85 250 92 112 159	3.27 1.74 3.30 2.21 2.10	7 2 2 2 2	5 5 5 5 5	ND ND ND ND	4 1 2 2 3	7 10 8 10 11	1 1 1 1	2 2 2 2 2	2 3 2 3 2	54 28 49 31 35	.04 .10 .09 .14 .13	.040 .033 .045 .060 .036	7 5 10 7	41 23 38 35 24	.17 .14 .15 .25 .21	25 29 34 27 33	.15 .08 .11 .09 .10	7 3 7	3.15 1.58 3.15 2.59 1.73	.01 .01 .01 .01 .01	.04 .03 .02 .05 .05	1 1 1 1	1 4 1 3	
SL6+00E 1+50S SL6+00E 1+75S SL6+00E 2+73S SL6+00E 3+00S SL6+00E 3+25S	2 1 1 1	14 9 13 4 5	39 13 11 6 11	120 91 71 15 21	.1 .1 .1 .1	15 22 24 3 8	5 5 7 2 2	214 - 41	4.08 1.81 2.57 .76 1.07	2 2 4 2 2	5 5 5 5 5	ND ND ND ND	1 2 2 1	7 10 12 13 19	1 1 1 1	2 2 2 2 4	2 2 2 2 5	60 29 37 35 33	.15 .98	.099 .032 .033 .015 .014	1 9 1 6 6	36 27 31 9 17	.16 .22 .32 .06 .12	37 27 39 20 13	.13 .09 .13 .15 .14	3	3.14 1.78 1.74 .44 .53	.01 .01 .01 .01 .01	.03 .04 .04 .02 .04	1 1 1 1 1	3 1 8 4	
816+008 3+505 816+008 4+005 816+008 4+255 816+008 4+505 817+008 1+008	1 7 3 1 1	27 52 16 17 7	18 24 23 21 20	49 83 36 58 24	.1 .1 .1 .1	25 48 12 11 5	8 23 4 5 3	198 71 125	2.68 4.83 2.09 1.94 1.90	2 2 3 2 2	5 5 5 5 5	ND ND ND ND ND	3 4 2 1 1	13 24 11 11 7	1 1 1 1	2 2 4 2 2	2 2 2 2 2	42 72 50 40 45	.50 .13 .16	.043 .146 .018 .036 .014	9 39 7 7 7	31 34 25 21 17	.30 .81 .18 .25 .05	25 63 22 28 16	.13 .28 .18 .13 .11	1	2.09 2.45 1.02 .91 .58	.01 .01 .01 .01 .01	.05 .04 .03 .03 .02	1 1 2 1 1	2 2 11 1	
SL7+00E 0+75N SL7+00E 0+50N SL7+00E 0+25N SL7+00E 0+23S SL7+00E 0+23S	1 5 1 1 1	6 19 23 15 9	12 43 16 7 14	49 61 46 50 39	.1 .1 .1 .1	3 14 15 15 8	3 5 5 6 3	86 89 91	2.39 2.52 2.54 2.94 2.83	2 2 4 2 2	5 5 5 5 5	ND ND ND ND	1 2 2 4 4	8 9 10 8	1 1 1 1	2 2 2 2 2 2	2 1 2 2 2	43 34 35 33 48	.13 .12 .10	.029 .042 .079 .058 .029	7 13 8 7 9	24 30 29 34 16	.12 .22 .17 .22 .08	19 20 23 21 26	.11 .10 .09 .10 .11	2 3	1.18 2.08 2.31 3.39 1.12	.01 .01 .01 .01 .01	.02 .04 .03 .03 .04	1 1 1 1	1 2 3 1 1	
SL7+00E 0+50S STD C/AU-S	1 20	14 60	37 38	49 132	.1 7.4	16 73	4 31	78 1074	2.63 4.14	4 42	5 15	ND B	2 42	11 53	1 20	2 17	2 24	45 58		.025 .095	8 10	22 60	.17 .96	29 183	.14 .08	5 1 40 1		.01 .08	.04 .14	1 14	1 52	

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IMPERIAL METALS PROJECT-7115 FILE # 88-1695

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SAMPLEI	No PPN	Cu PPK	Pb P pn	Lo PPN	λg PPK	NI PPK	C0 ??#	Ka PPN		As PPK	U Pen	Au PPK	4T 228	5r 22K	Cq SSM	62 1899	B1 PPK	¥ 22X	Ca ł	1 1	La ??K	CT 22K	Ng t	8a 795	71 1	B PPN	ג ג	sk t	1 1	¥ PPN	Au* PPB	(
SL7+00K 1+00S SL7+00K 1+25S SL7+00K 1+50S SL7+00K 2+00S SL7+00K 2+25S	2 1 1 1 1	10 5 29 7 6	17 13 15 16 9	42 40 76 84 41	.1 .1 .3 .3 .1	3 4 17 8 4	2 1 5 4 1	55 103 83 125 42	2.78	2 2 4 5 2	5 5 5 5 5	ND ND ND ND	1 1 6 3 1	9 10 5 9	1 1 1 1 1	2 4 2 2 2	2 2 2 2 2 2	34 21 35 24 15	.10 .10 .12 .13 .09	.065 .016 .031 .074 .015	7 6 11 11 9	16 9 39 23 15	.08 .07 .26 .17 .07	33 33 24 25 18	.07 .06 .09 .06 .04	4 2 2 5 8	.96 .45 2.43 1.09 .94	.01 .01 .01 .01 .01	.04 .03 .03 .04 .02	1 1 1 1 1	1 2 1 1 6	
SL7+008 2+755 SL7+008 3+005 SL7+008 3+505 SL7+008 3+755 SL7+008 4+005	1 2 1 2 2	8 10 25 12 27	14 23 16 11 11	47 56 36 29 118	.2 .2 .1 .1 .1	12 7 19 11 40	4 3 4 3 22	68 127 61 58 268	4.02 2.14 2.92	2 2 3 2 2	5 5 5 5 5	ND ND ND ND	2 2 2 2 2	11 10 10 11 21	1 1 1 1	4 2 2 2 2	2 3 2 2 2	40 54 41 66 146	.19 .10 .12 .15 .43	.025 .042 .023 .017 .129	7 7 8 5 12	27 22 23 29 31	.19 .11 .14 .16 .96	34 30 22 15 50	.10 .11 .08 .14 .56	2 5 8	1.38 1.22 1.21 1.00 2.95	.01 .01 .01 .01 .02	.03 .04 .03 .02 .04	1 1 1 1	2 1 2 1 1	
SL7+003 4+50S SL7+008 4+75S SL7+003 5+00S SL7+008 5+13S SL8+008 1+25H	1 1 1 1	44 18 12 12 4	19 17 3 17 5	93 68 53 47 30	.2 .1 .2 .1 .1	28 14 14 16 4	12 5 5 1	256 165 85 107 36	3.26 2.81 2.35 3.14 1.63	2 2 2 2 2 2	5 5 5 5 5 5	ND ND ND ND ND	6 1 2 2 2	13 8 9 9 1	1 1 1 1	2 2 2 2 2 2	2 2 2 2 2	53 42 29 54 46		.073 .003 .036 .040 .010	16 9 9 7 7	43 33 29 40 14	.62 .29 .23 .30 .05	31 30 27 21 14	.13 .08 .07 .15 .10	2 1	2.58 2.20 2.07 1.41 .57	.01 .01 .01 .01 .01	.06 .02 .04 .01 .01	1 1 1 1	1 1 1 1	
SL8+00E 1+00M SL8+00E 0+75M SL8+00E 0+50M SL8+0DE 0+50S SL8+00E 0+255	1 1 1 1	4 9 11 14 14	5 27 26 11 13	56 109 140 122 56	.5 .3 .1 .1 .3	6 13 17 22 14	2 5 6 8 4	333	1.95 2.29 2.21 2.23 1.91	2 2 2 2 2 2	5 5 5 5 5	ND ND ND ND ND	3 3 3 2 4	9 10 12 12 9	1 1 1 1	4 2 2 2 2	2 2 2 2 2 2	24 31 28 31 29	.10 .13 .17 .16 .11	.024 .060 .033 .062 .049	7 9 9 8	21 32 35 34 31	.13 .19 .31 .29 .25	15 29 38 70 24	.07 .07 .09 .08 .07	4 10 8	1.13 2.40 2.22 2.19 1.83	.01 .01 .01 .01 .01	.04 .03 .01 .01 .03	1 1 1 1	2 1 1 3	
\$L8+00E 0+505 \$L8+00E 0+755 \$L8+00E 1+005 \$L8+00E 1+505 \$L8+00E 1+755	1 1 1 1	11 5 9 8 7	19 10 18 12 15	154 40 52 64 47	.3 .1 .1 .1 .3	14 8 9 11 12	7 2 2 4 3	14	2.80 .74 2.52 2.98 1.71	2 2 4 3 4	5 5 5 5 6	ND ND ND ND	2 2 1 3 3	11 11 9 8 11	1 1 1 1	2 3 2 2 2	2 2 2 2 3	34 18 39 47 32	.10 .10 .10	.037 .006 .016 .035 .070	5 10 8 7 8	27 12 25 34 22	.18 .11 .15 .14 .11	49 19 27 18 27	.09 .06 .07 .10 .07	1 2	1.89 .60 1.36 2.12 .98	.01 .01 .01 .01 .01	.03 .03 .02 .04 .04	1 1 1 1	1 1 68 1 1	
\$L8+00\$ 2+255 \$L8+00\$ 2+505 \$L8+00\$ 3+005 \$L8+00\$ 3+255 \$L8+00\$ 3+505	1 1 1 1	2 3 11 3 3	4 10 8 9 11	61 55 49 33 56	.2 .1 .2 .1 .1	6 6 5 3 6	3 2 3 3 1	75 83 63	1.49 1.54 3.39 1.63 1.74	2 2 2 2 2	5 5 5 5 5	ND ND ND ND ND	1 1 1 1	8 11 9 8	1 1 1 1	2 2 2 3	2 2 2 2 2	25 29 59 31 30	.13 .10 .10	.036 .023 .106 .034 .020	7 8 7 7 7	20 17 29 16 18	.12 .10 .15 .10 .99	20 27 31 24 20	.05 .08 .09 .08 .07	4 9 : 3	.97	.01 .01 .01 .01 .01	.02 .02 .03 .02 .03	1 1 1 1	2 1 3 1 1	
SL8+00E 3+755 SL8+00E 4+005 SL8+00E 4+555 SL8+00E 4+755 SL8+00E 5+005	2 2 1 2 1	19 36 9 41 35	26 21 7 5 13	108 117 60 170 78	.5 .1 .1 .1 .2	20 28 8 35 24	7 9 4 22 9	258 92 648	3.12 2.76 3.77 6.05 2.72	4 3 3 3 3	5 5 5 5 5	ND ND ND ND	2 2 1 4 5	9 17 11 25 14	1 1 1 1	2 2 2 2 2	2 2 3 2 2	45 43 38 45 47	.22 .14 .76	.\$23 .\$38 .121 .352 .956	12 9 0 24 13	30 34 21 21 38	.18 .33 .14 .72 .52	33 48	.12 .10 .08 .20 .13	4 1 5 1	1.79	.01 .01 .01 .02 .01	.05 .05 .03 .08 .06	1 1 1 1	1 1 1 1	
SL9+00E 0+85N STD C/AU-S	1 18	11 59	11 42	82 130	.2 6.9	13 70	3 30	89 1066	2.42 4.11	3 42	5 18	ND 8	3 38	7 45	1 18	2 16	222	33 59		.073 .087	1 37	36 59	.13 .95	39 178	.08 .06	3 2 35 1			.03 .14	1 13	1 53	

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IMPERIAL METALS PROJECT-7115 FILE # 88-1695

SAMPLE	No PPN	Cu PPK	Pb PPN	In PPM	Ag PPN	NI PPM	Co PPK	ND PPK	Ie X	λs X99	U PPK) PPK	Th PPM	ST PPN	Cá PPN	SD PPK	Bi PPK	\$5X Å	Ca 1	r 1	La PPK	Cr PPK	Ng t	Ba PPX	ti 4	B ??N	A1 ₹	Xa X	I ł	W PPK	Au" PPB
SL9+00E 0+50N	1	28	13	45	.1	26	5	98	2.71	2	5	ND	1	•	1	2	2	37	.11	.030	11	Ð	.35	39	, 10	5	3.22	.01	.02	1	65
SL9+008 0+25N	1	9	21	60	.2	10	4	- 64	2.17	3	5	KD	1	1	1	2	2	31	.10	.022	1	33	.17	19	.05	3	2.21	.01	.01	1	2
SLS+DOL D+DOS	1	1	12	63	.1	1	1	238		3	5	D	1	•	1	5	3	27	.10	. 857	1	23	.16	31	.07	2	1.16	.01	.02	1	2
SL9+00E 0+255	1	13	17	55	.2	5	3	248	2.97	2	5	ID	2		1	4	3	52	.09	.041	1	26	.15	- 40	.11	1	1.66	.01	.03	1	Ĩ
\$19+00E 0+505	1	1	12	73	.1	11	3	61		2	5	iD	1	3	1	2	ł	27	.10	.006	1	24	.11	27	.08	4	1.10	. 01	.01	1	2
SL9+008 0+755	2	ł	15	96	.2	12	1	66	3.08	4	5	ND	2	1	1	3	2	57	.01	.027	1	28	.12	38	.13	2	2.43	.01	.02	2	1
S19+002 1+005	1	19	14	168	.1	12	2	241	1.42	3	5	D	1	10	1	2	2	20	.11	.020	•	18	.13	35	.07	2	1.39	. 01	. 02	1	1
SL9+008 1+255	1	3	12	33	.1	3	2	56	1.38	2	5	10	1	9	1	2	4	39	. 09	.013	1	15	.08	19	.11	2	.\$1	.01	. 02	1	1
\$19+00\$ 1+50S	1	1	15	96	.1	15	4	60	2.50	2	5	10	1	10	1	2	3	- (1	.11	.021	1	26	.13	- 16	.10	2	2.07	.01	. 02	1	1
\$19+00% 1+75S	1	15	8	70	.1	21	1	128	2.79	2	5	ID	2	10	1	2	2	38	.14	.023	10	35	.30	38	.13	3	1.93	.01	.03	1	2
\$19+008 2+255	1	15	10	44	.1	14	4	76	3.05	6	5	10	2	t	1	2	2	53	.10	.029	1	39	.23	11	.13	2	2.03	.01	.01	1	1
\$19+00\$ 2+50S	1	12	1	í ł	.1	9	3	11	2.42	2	5	n	2	•	1	2	2	46	.12	.030	1	20	.16	25	.13	2	1.24	.01	.03	1	1
\$L9+00\$ 3+00S	1	9	10	106	.3	18	5	- 11	2.52	2	5	1D	- 1	•	1	2	3	32	.11	.031	9	39	.19	31	.10	4	2.71	.01	.03	1	1
\$19+00\$ 3+25S	1	10	10	98	.1	9	3	140	2.06	3	5	ID	1	3	1	2	2	33	.13	.435	9	23	.21	35	.10		1.14	.01	.03	1	1
\$L9+00\$ 3+50S	2	23	14	67	.2	17	6		5.33	(3	n	4	10	1	4	Ì	95		.043	9	46	.31	23	.20	4	1.64	.01	.04	1	2
\$1.9+001 3+755	1	13	1	59	.1	13	5	88	2.00	2	5	JD	1	ł	1	2	2	30	.11	.042	7	29	.24	26	.08	1	2.28	. 01	. 03	1	2
\$19+003 4+005	1	28	10	38	.1	18	6	92	1.83	2	5	10	1	1	1	2	2	31	.12	.035	14	39	.34	20	. 09	6	1.79	.01	.03	2	1
\$19+00\$ 4+255	1	12	14	\$2	.2	22	1	89	2.03	2	5	ND	1	•	1	2	2	29	.11	.028	1	37	.21	22	. 01	5	2.14	.01	.03	1	1
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SL9+00E 5+005	1	24	21	73	.3	19	6		2.27	2	5	ID	4	13	1	2	4	37		.433	10	30	.26	51	.10	2	1.81	.01	.05	2	1
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Ministry of Northern Developme	Report of W	,	DOCUN					
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Type of Survey(s)	2.11001		Mining	HCI		– Donotu porArea	se shaded areas bel	low.
Geoch	emical Expendi	ture	•••••••		Mor		, Ulster T	WD.
	ial Metals Cor	poration					4978	· •
Address 800 -	601 West Hast	inas Stra	ot Van	couver B (V6R	546		
Survey Company		ings stre	ec, van	Date of Survey	(from & to)		Total Miles of fir	ne Cut
Imperial Meta Name and Address of Author (o				14 05 Day Mo.	88 22 Υr. Daγ	W5. \$8		
R. Michael Jones								
Credits Requested per Each (Special Provisions	· · · · · · · · · · · · · · · · · · ·	ight Days per		ims Traversed (L	List in nun	nerical seq	uence) Mining Clalm	Expend.
For first survey:	Geophysical	Claim	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
Enter 40 days. (This includes line cutting)	- Electromagnetic	 	1.1.1.1.1.1.1.1	<u>S 734528</u>	27.8	ार सुर्थ इन्ह्रांस्य		
menudes nine cutting)	- Magnetometer		128832	<u>S 734529</u>	27.8		ģ	
For each additional survey: using the same grid:	- Radiometric		1.332.51-	<u>S 734530</u>	27.8			
Enter 20 days (for each)	- Other	 		<u>\$ 681917</u>	27.8	14		
	Geological	 		<u>s 734531</u>	27.8	i di ma	· · · · · · · · · · · · · · · · · · ·	
Man Days	Geochemical		Construction of all	<u>S 734532</u>	27.8	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	2	
	Geophysical	Days per Claim						
Complete reverse side and enter total(s) here	- Electromagnetic		stele is y mine	SUD			**************************************	
	- Magnetometer	l		MIND	G DIV.	- 61	·	
	- Radiometric			RECE		- 14	•	
	• Other	l	- 35 A		1. 1958	1		
	Geological					P.M.	1	
	Geochemical			7/8/0110111	4114191	<u>, iilis</u>		
Airborne Credits		Days per Claim			3	j - 1	· · · · · · · · · · · · · · · · · · ·	
Note: Special provisions credits do not apply	Electromagnetic					•		
to Airborne Surveys.	Magnetometer		100 亿			Dr	A B HALE	-6
	Radiometric						CEIVE	4
Expenditures (excludes power Type of Work Performed	er stripping)					M	128 1988	
Geoc	hemical Analys	is					·····	
Performed on Claim(s) \$ 734528, \$73452	9 5 734530					MNING	LANDS SEC	TIDN
							1	
S 681917, S 7345 Calculation of Expenditure Days							\	
Total Expenditures	-	Total s Credits						
\$ 2,508.50	÷ 15 = 1	67.2					umber of mining	
Instructions						claims c report c	overed by this of work.	6
Total Days Credits may be ap choice. Enter number of days in columns at right.				or Office Use O	nly	Mining		
	A		Recorded	Nov. 21		1/2	in / C	-6
Date November 17 /88	orded Holder gragent (-	166.8	Date Approved	es Recorded	Branch	A Con	
Certification Verifying Repo		· .	C	2 Jack			rear	
I hereby certify that I have a or witnessed same during and	personal and intimate ki				of Work ann	exed hereto	, having performed	the work
or witnessed same during and Name and Postal Address of Peri				· vű.			·····	
R. Micł	ael Jones, 254	_Seaton_	Street,	Toronto, O	ntario_	10000	the formed	
M5A 2T4				November		Certifie	toy (stanstare)	0-
						·····		
1362 (85/12)								

				• .		. Sept 2	2
Ministry of	Report of W	ork	[DOCIN	AENT No.	structions:	Please typé or print.	
Northern Develop and Mines	Geophysical,	Geological,			-	If number of mining clai exceeds space on this form	, attach a list
Ontario	(Geophysical, Geochemical a	ind Expend	litu est voor		Note:	Only days credits calcul "Expenditures" section main the "Expend. Days O	ly be entered
Type of Survey(s)			Mining	Act	Townshin	Do not use shaded areas bei	ow.
Geolog	ical and Geochem	nical 👝			Ulste	pr Area er and Moncrief To Prospector's Licence No. T4978	ownship
Claim Holder(s)	al Metals Corpor	ation		100		Prospector's Licence No. T4978	
Address			<u> </u>				
800 - Survey Company	601 West Hasting	is St.,	Vancouver	Date of Survey	DB DAD	Total Miles of In	
•	a ay an			12, 1 M2.5	88 23 Yr. Day	25 '88 7.2 k	
Name and Address of Autho R. Michael Jones	,	no 800	- 601 Wes	t Hastings	Streat	Vancouver, B.C.	V68 546
Credits Requested per Eac	ch Claim in Columns at r	right	Mining Cla	ims Traversed (List in nume	rical sequence)	
Special Provisions	Geophysical	Days per Claim	Prefix	ning Claim Number	Expend. Days Cr.	Mining Claim Prefix Number	Expend, Daγs Cr.
For first survey: Enter 40 days. (This	- Electromagnetic		S	681917	60		
includes line cutting)	- Magnetometer			734528	60		
For each additional surve	y: - Radiometric			734529	60		
using the same grid: Enter 20 days (for eac	- Other			734530	60		
	Geological	40		734531	60		
	Geochemical	20		734532	60		
Man Days	Geophysical	Days per Claim					
Complete reverse side	IVED Etectromagnetic			····			
and enter to RIE CEE	· Magnetometer						
AUG	8 1988 Radiometric			······································			
	- Other						
MINING LAN	ds section			<u></u>	<u> </u>		
	Geochemical	<u>├</u>					
Airborne Credits		Days per					
Note: Special provisions	Electromagnetic	Claim		·			
credits do not appl	y		SCARE _	UDBURY			
to Airborne Survey	Badiometric		1 8334 44	MINING DIV.			
Expenditures (excludes p				CEIVE			
Type of Work Performed				UG 2 - 1988			
Performed on Claim(s)			A.M.		P.M.		
			1-318191				
				11- guam	10.91		
Celculation of Expenditure C	Days Credits	Total					
Total Expenditures		s Credits	STAR FOR		L ·	555.58	
\$	÷ [15] = []				Total number of mining claims covered by this	6
	e apportioned at the claim I		[or Office Use O		report of work.	
choice. Enter number of a in columns at right.	days credits per claim select	eđ		Cr. Date Recorded	1	Mining Recorder	1
Date	Represed Holder or Agent f	Signeture)	360	Date Approved		Branch Director	lei
July 20, 1988 🤇	Have Kard	all	500	See fer	ised &	fatement	
Certification Verifying Re		nowledge of	the facts sat fo	orth in the Report	of Work appen	ked hereto, having performed	the work
or witnessed same during	and/or after its completion	•				a and a start of the start of t	THE WURK
Name and Postal Address of R. Michael Jones	Person Certifying			,			
254 Seaton Stree	t. Toronto. Onta	rio M\$/	1.276	Date Certified	6/80	Certified by (Signature)	ii
Los ocucon otree	, ioioiico, oiicu			1 m2	0 / 7202	1 7.h	N. 4. 19

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Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical **Technical Data Statement**

File	
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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geological/Geochemical/Geophysical	
Township or Area Moncrieff/Ulster	MINING CLAIMS TRAVERSED
Claim Holder(s)Imperial Metals Corporation	List numerically
Survey Company	S 681917
Author of ReportR. Michael Jones/Dennis Gorc	(prefix) (number)
Address of Author 254 Seaton Street, Toronto, Ontario	s 681917
Covering Dates of Survey <u>12/5/88 to 6/6/88</u> (linecutting to office)	
Total Miles of Line Cut 7.2 km	S 734528
	S 734529
SPECIAL PROVISIONS DAYS	S 734530
<u>CREDITS REQUESTED</u> Geophysical per claim	S 734531
ENTER 40 days (includes – Electromagnetic	
line cutting) for first Magnetometer	S 734532
survey. –Radiometric	
ENTER 20 days for eachOther	
additional survey using Geological 40 same grid.	
same grid. Geochemical 20	
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	
Magnetometer Electromagnetic Radiometric	
DATE: June 6, 1988 SIGNATURE: Author of Report or Agent	
0,000 / 2 10/ (7	
Res. GeolQualifications 2.11182 /2.10667.	
Previous Surveys File No. Type Date Claim Holder	
]	
	TOTAL CLAIMS <u>six</u> (6)
897 (85/12)	

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245,602

OFFICE USE ONLY

~		CAL TECHNICAL		
	ROUND SURVEYS If more than one survey, s	pecity data for each	n type of survey	
Ν	umber of Stations 250	Numb	er of Readings	500
	ation interval 12.5 m			50 m / 100 m
	ofile scale			
C	ntour interval			
MAGNETIC	Instrument <u>Geometrics 816 Proton P</u> Accuracy – Scale constant <u>+ 2 gammas</u> Diurnal correction method <u>closed baseli</u> Base Station check-in interval (hours) <u>1/2 h</u> Base Station location and value <u>seven</u> corre	ne loops our		
ELECTROMAGNETIC	Instrument Coil configuration Coil separation Accuracy Method: Difference transmitter Frequency Parameters measured	Shoot back	In line	
GRAVITY	Instrument Scale constant Corrections made Base station value and location Elevation accuracy			
RESISTIVITY	Instrument <u>Method</u>		Frequency Domai Frequency Range	
8	Type of electrode			

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INDUCED POLARIZATION RESISTIVITY

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Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	

Energy windows (levels)
Height of instrument
Size of detector

Overburden_____

.

_____Background Count _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

InstrumentAccuracy
Accuracy
Parameters measured

Additional information (for understanding results)_____

AIRBORNE SURVEYS

Type of survey(s)	
Instrument(s)	(specify for each type of survey)
Accuracy	(specify for each type of survey)
Aircraft used	
Sensor altitude	
Navigation and flight path recovery method	d
Aircraft altitude	Line Spacing
	Over claims only

GEOCHEMICAL SURVEY – PROCEDURE RECORD

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Numbers of claims from which samples taken 6819	917, 734532, 734531, 734530, 734529, 734528
Total Number of Samples18 rock; 200 soilType of SampleB-Horizon(Nature of Material)Average Sample Weight300 gramsMethod of Collectiongrub hoe	ANALYTICAL METHODS Values expressed in: per cent p. p. m. p. p. b.
Method of Collection grub noe	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
Soil Horizon SampledB-HorizonHorizon DevelopmentPodzol, well dev.Sample Depth10-20 cmTerrainhilly, dry	Others <u>Au</u> Field Analysis (tests) Extraction Method <u>ICP scan</u> Reagents Used
Drainage Development good Estimated Range of Overburden Thickness 0 - 3 m	Field Laboratory Analysis No. (tests) Extraction Method Analytical Method Reagents Used
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing) Mesh size of fraction used for analysis	Commercial Laboratory (<u>Acme Labs</u> Name of Laboratory <u>Acme Labs</u> Extraction Method <u>North Vancouver, B.C.</u> Analytical Method <u>Reagents Used</u>
General	General



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Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

December 29, 1988

Mining Lands Section 3rd floor, 880 Bay Street Toronto, Ontario M5S 1Z8

Telephone: (416) 965-4888

Your file: W8807-153 Our file: 2.11661

Mining Recorder Ministry of Northern Development and Mines Bag 3000 200 Brady Street, 6th floor Sudbury, Ontario P3A 5W2

Dear Sir:

Re: Revised Notice of Intent dated December 12, 1988 Geological Survey and Geochemical Survey submitted on Mining Claims S 681917 et al in Ulster & Moncrief Townships

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours, sincerely,

Am Dor

W.R. Cowan Provincial Manager, Mining Lands Mines & Minerals Division *RM* AB:pl Enclosure

cc: Mr. G.H. Ferguson Mining and Lands Commissioner Toronto, Ontario

> Imperial Metals Corporation Suite 800 601 West Hastings Street Vancouver, B.C. V6B 5A6

Resident Geologist Sudbury, Ontario

Mr. R. Michael Jones 254 Seaton Street Toronto, Ontario M5A 2T4

ntario (Date Mining Recorder's Re
	December 12,1988 Mining Recorder's Re December 12,1988
"REVISED"	
· · ·	als Corporation
Wnship or Area Ulster and Mo	oncrief Townships
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic days	C C01017
Magnetometer days	S 681917 734528 to 532 inclusive
Radiometric days	
Induced polarization days	
Other days	
ection 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical 19.4 days	
Man days 🗌 🛛 Airborne 🗍	
Special provision 🕅 Ground 🛣	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
ecial credits under section 77 (16) for the following mining	claims
	·
credits have been allowed for the following mining claims not sufficiently covered by the survey insut insut	fficient technical data filed

Salar Sala Barra

此来也是我们的时候,你们就能够到了。"她们们们,我们的时候,你们的时候,你们的时候,你们的时候,你们们的时候,你们们的你们的?"

Ministry of Northern Development Mines

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Ontario

Technical Assessment Work Credits

			File 2.11661
December	12,	1988	Mining Recorder's Report o Work No. W8807-153

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Recorded Holder	Imperial Metals	Cornaraitan
ownship or Area		
	Ulster and Moncr	rief Townships
Type of survey and Assessment days cree	l number of dit per claim	Mining Claims Assessed
Geophysical		
Electromagnetic	days	
Magnetometer	days	S 681917 734528 to 532 incousive
Radiometric		734528 LO 552 INCOUSIVE
Induced polarization	days	
Other	days	
Section 77 (19) See "Mining Cl	laims Assessed" column	
Geological 30.8	8 days	
Geochemical	days	
Man days 🗋	Airborne	
Special provision X	Ground 🗶	
Credits have been reduced b coverage of claims.	because of partial	
Credits have been reduced t to work dates and figures o		
	,	
Decial credits under section //	(16) for the following minin	g claims ·
o credits have been allowed fo	or the following mining claims	5
not sufficiently covered by	the survey 📋 ins	sufficient technical data filed
not sufficiently covered by	the survey 🔲 ins	sufficient technical data filed
not sufficiently covered by	the survey 🔲 ins	sufficient technical data filed
not sufficiently covered by	the survey 🛄 ins	sufficient technical data filed
not sufficiently covered by	the survey	sufficient technical data filed
not sufficiently covered by	the survey	sufficient technical data filed
not sufficiently covered by	the survey	sufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60. .

· 你们还没有了这些,你说了,我们们们们也能把你能感觉了你就

September 22, 1988

Ministry of Northern Development & Mines 99 Wellesley Street W. Whitney Block, Room 6610 Queen's Park Toronto, Ontario M7A 1W3

Attention: Mr. Trevor Soobrian

Dear Mr. Soobrian:

Re: Straight Lake Property, Moncrieff & Ulster Twps.

Enclosed find, in duplicate, the report for the Straight Lake Property, covering the following claims:

<u>Claim #</u>	Twp
S. 681917	Moncrieff
S. 734528	Ulster
S. 734529	Ulster
S. 734530	Ulster
S. 734531	Moncrieff
S. 734532	Moncrieff

The Report of Work for these claims was filed in Sudbury and recorded on August 3, 1988. The Geology Map (Fig.3) will be following shortly.

Hoping all is in order, I remain,

Yours truly,

IMPERIAL METALS CORPORATION

arie Kandall

Marie`R. Randall Minerals Land Manager

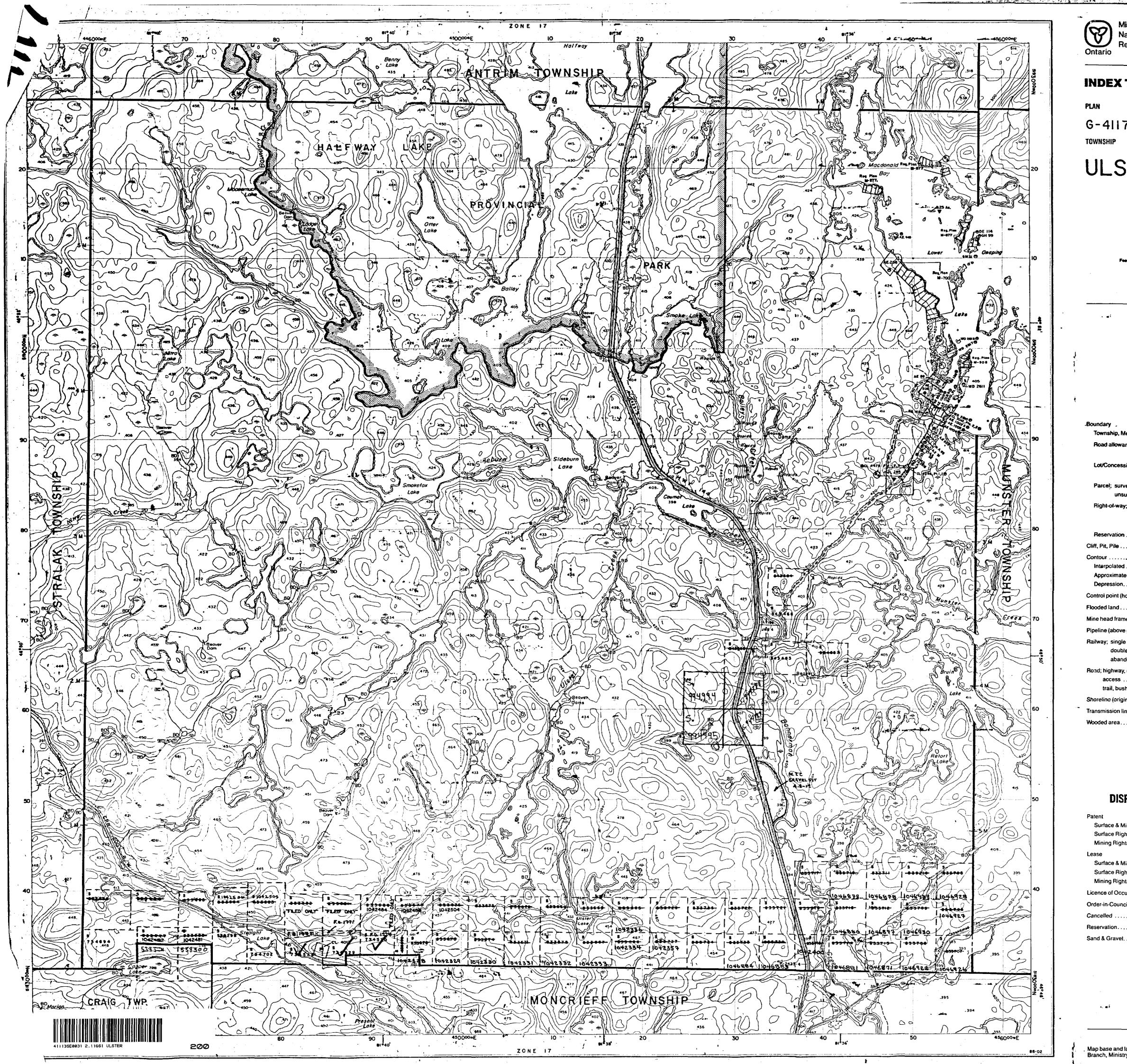
Enclosures

MRR:mes (eb)

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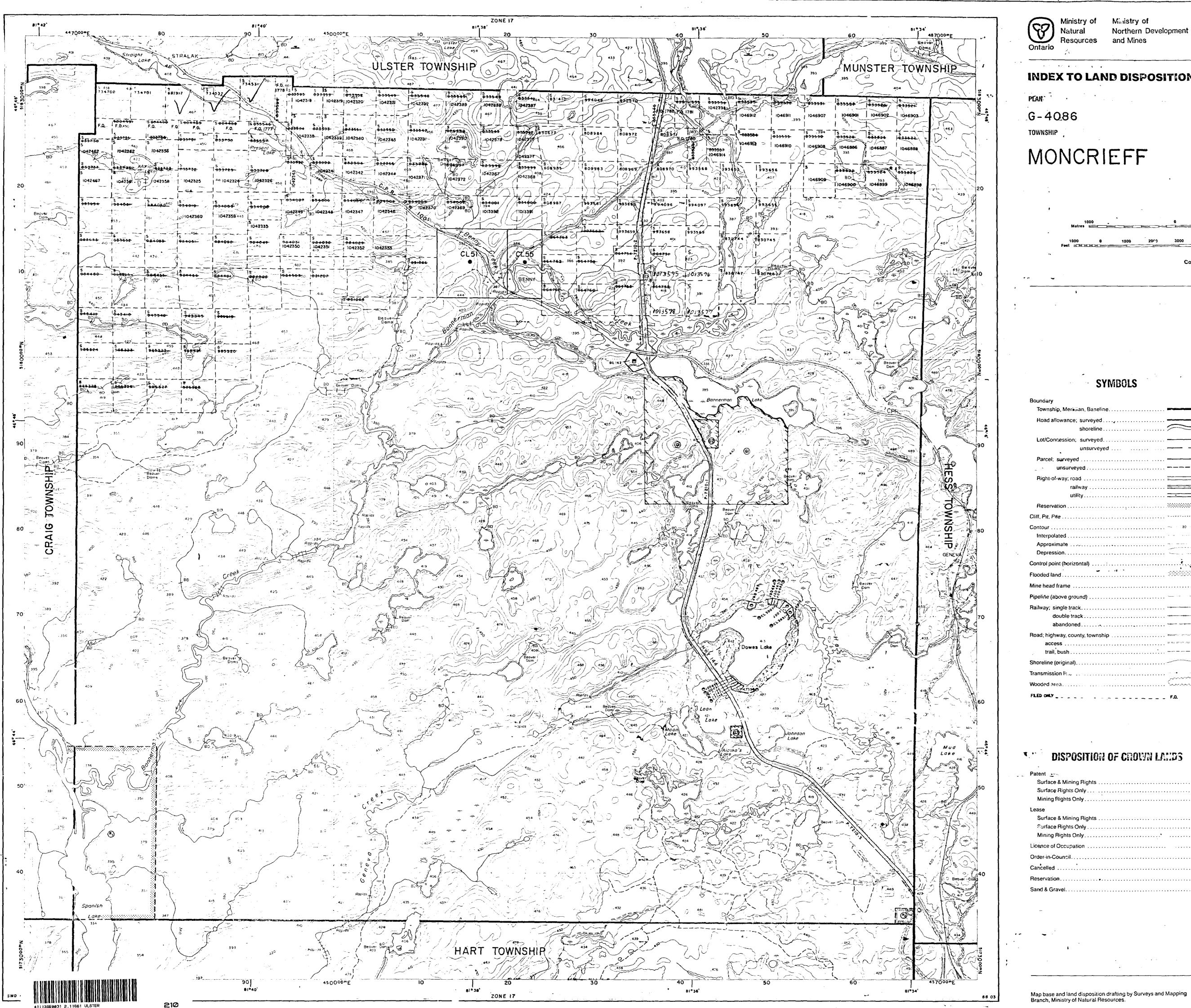
2 1988

MINING LANDS SECTION



Ministry of Ministry of Natural Northern Developm	ent						
Resources ; and Mines			a line				
TO LAND DISPOSITI	ON		•		······································		•
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STER			ES/REGISTRY D	Division			
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-	-:	AF	MRO-M SRO-SI	RAWN FRO ining Rights O urface Rights (ining and Surf	Only	NN	÷ ·
SYMBOLS		Description (R)	Order No. ₩ 63/ 75	Dete 5/11/75	Disposition S R O	File 127351	
, Meridian, Baseline		ନ୍ତ ତ	M.N.R. RESERV		SR0. S.R.D	163005 77094 Vei	, LÍ
wance; surveyed	$\left \right\rangle$	B	CROWN RESER	YE	, 3.R.O.	160706	
ession; surveyed		•		1			:*
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& Mining Rights Rights Only ights Only Occupation		.* •					•, ● *
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. Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources. The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.



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Ministry of Ministry of Natural Northern Development Resources and Mines JUNE 17, 1988 M.C. • · · • • • • • • • • INDEX TO LAND DISPOSITION M.N.R. ADMINISTRATIVE DISTRICT SUDBURY MINING DIVISION SUDBURY LAND TITLES/REGISTRY CIVISION MONCRIEFF SUDBURY Scale 1:20 000 1000 2000 3000 4000 5000 eet SEBBBB **Contour Interval 10 Metres AREAS WITHDRAWN FROM DISPOSITION** MRO - Mining Rights Only SRO - Surface Rights Only M+S-Mining and Surface Rights SYMBOLS SEC 36 / 80 14/6/82 5. R.O. 137685 W47 * 🔊 SEC.36/80 W.59/86 S.R.U Township, Meridian, Baseline. Road allowance; surveyed. shoreline Lot/Concession; surveyed. unsurveyed unsurveyed _____ SAND AND GRAVEL (G) DHO GRAVEL RESERVE , FILE No. 74145 8 74146. (2) MTC GRAVEL PIT No. 4EI3 3 MTC GRAVEL PIT No. 4E40 - -----.....Δ 🛥 - e e 🕬 double track ... DATE OF ISSUE Road; highway, county, township . OCT 1 2 1988 -----_____ SUDBURY MINING RECORDER'S OFFICE NOTES mm FLED ONLY _____ F.O. SUBDIVISION OF THIS TOWNSHIP INTO LOTS AND CONCESSIONS WAS ANNULLED 30TH JUNE 1953.

DISPOSITION OF CROWN LANDS

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The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.

2) 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL

3) DOWES LAKE DEVELOPMENT PLAN DATED 11TH JUNE 1970. FILE 183095.

LAKES AND RIVERS.

