

GEOCHEMICAL REPORT 01/87
IZZI CLAIM
OMINECA MINING DIVISION
BRITISH COLUMBIA
NTS ~~94C/5E~~ 94C/5E
SUNCOR INC.
RESOURCES GROUP
Donald B. Cross, B.Sc.
1985

14,809

86-10-14809

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

GEOCHEMICAL REPORT

14,809

1271 CLAIM

Latitude 50° 21' North

Longitude 125° 43.5' West

N.T.S. 94C/5E

OMINECA MINING DIVISION

BRITISH COLUMBIA

for

FILMED

OWNER: Golden Rule Resources Ltd.

Calgary, Alberta

OPERATOR: Suncor Inc. Resources Group

Calgary, Alberta

by

Don B. Cross

Suncor Inc.

November, 1985

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LIST OF MAPS
IZZI CLAIM

<u>MAP TITLE</u>	<u>SCALE</u>	<u>DRAWING #</u>
Location Map	1:50,000	Izzi 001
Geology	1:5000	Izzi 002
Soil & Stream Sediment Sample Locations	1:5000	Izzi 003
Geochemical Results Cu, Pb, Zn.	1:5000	Izzi 004
Geochemical Results Au, Ag, As.	1:5000	Izzi 005

SUMMARY AND CONCLUSIONS

Anomalous soil, silt and rock samples were collected by Suncor field crews on the Izzi claim during the 1985 field season. The source appears to be a polymetallic body containing above average levels of Cu, Zn, Au and Ag. Pb values do not appear to be anomalous in the samples collected to date. As values rarely reach the 100 ppm level.

Previous work by Mattagami Lake Exploration Limited involved soil, silt and rock sampling and petrographic analysis of selected rock specimens.

INTRODUCTION

During the course of a regional exploration program in the general area Suncor crews staked the Izzi claim and carried out a small evaluation program. Anomalous results were obtained on the new claim. High values were recorded for the following elements; Cu, Zn, Au and Ag.

The Izzi claim lies within an area of common interest pursuant to an agreement between Suncor Inc. and Golden Rule Resources. If Golden Rule consents to including this property under the terms of the joint venture then Suncor Inc. would own a 55% interest and Golden Rule a 45% interest. All expenditures relating to this property would then be applied to the earn-in amount required for Suncor Inc. to achieve its 55% interest in Golden Rule lands.

This report summarizes the results of the 1985 evaluation of the property.

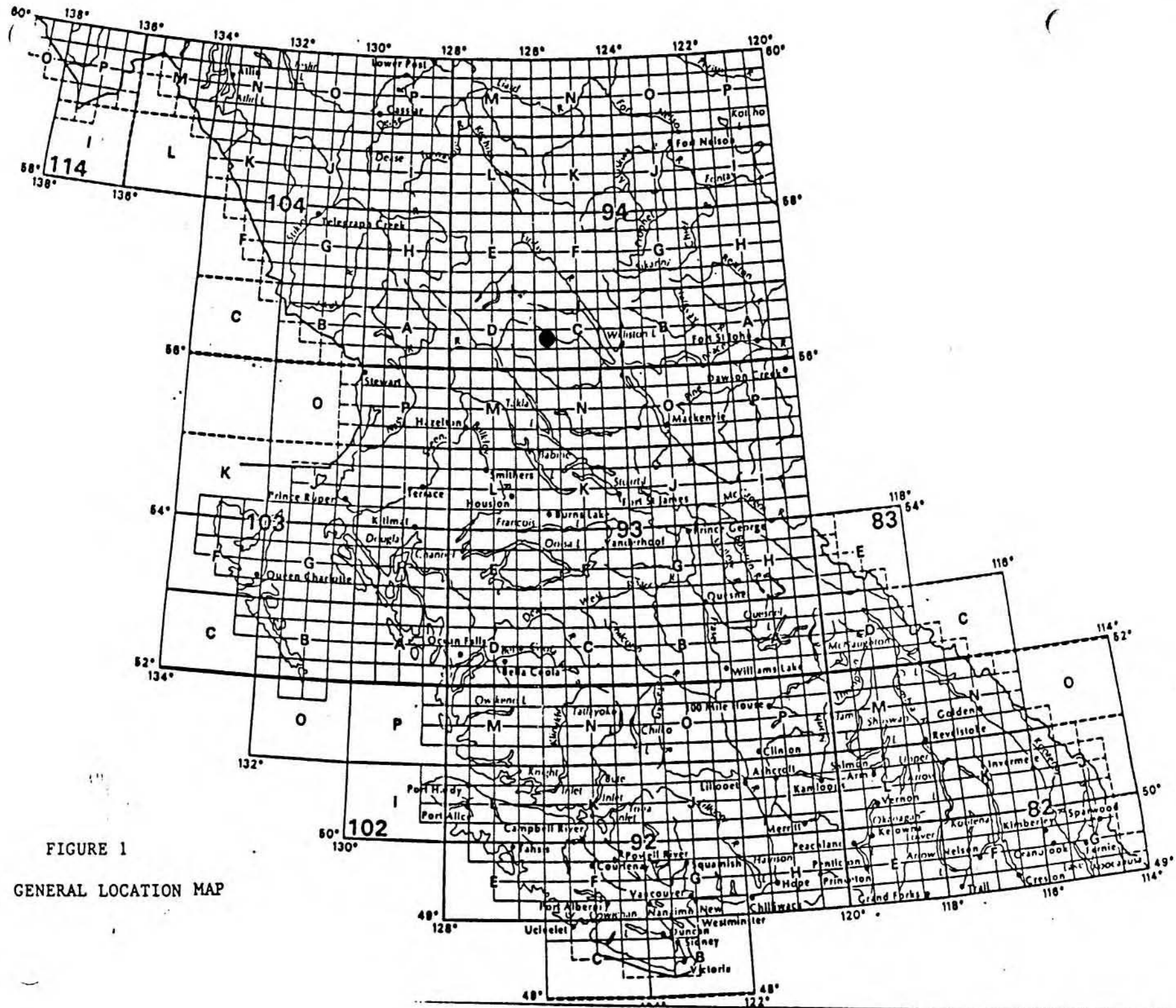
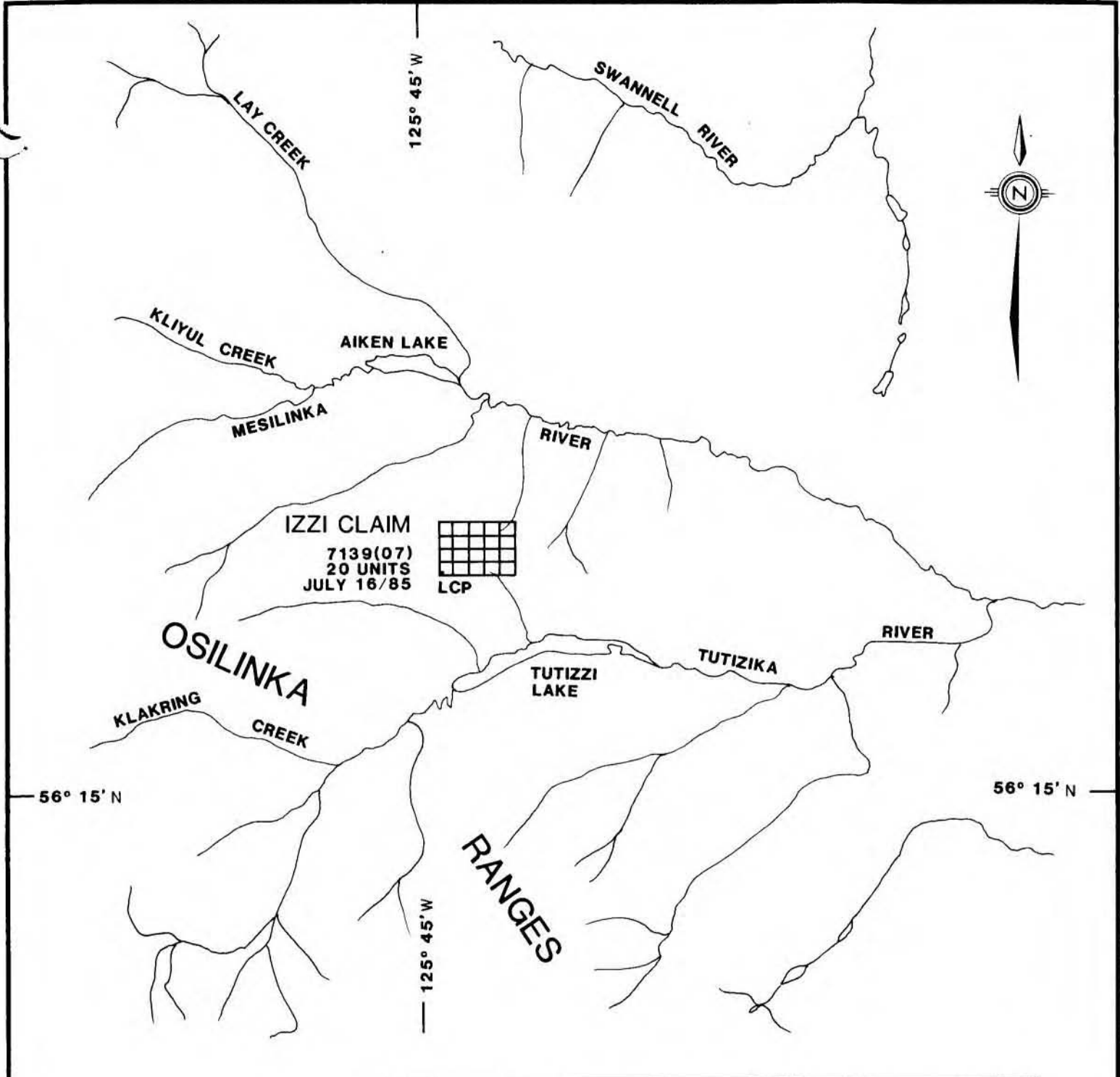



FIGURE 1
GENERAL LOCATION MAP



 Suncor Inc. Resources Group		COAL AND MINERALS DEPARTMENT	
<h1>OMINECA PROJECT</h1> <h2>CLAIM MAP</h2> <h3>IZZI CLAIM</h3> <p>BRITISH COLUMBIA OMINECA MINING DIVISION</p>			
DATE	SCALE	N.T.S.	DRAWING No.
NOV.85	1:50,000	93C/5	IZ 001

PHYSIOGRAPHY AND GLACIATION

The claim lies within the Osilinka Ranges of the Omineca Mountains physiographic sub-division of the Interior Plateau. The entire region was glaciated and is characterized by wide U-shaped, drift filled valleys and deeply cut upland valleys. Mountain peaks in the area average 5000 feet a.s.l. with maximum elevations of 6500 feet. Lakes are found at approximately 3000 feet.

The Izzi claim lies on the east flank of the Osilinka Ranges 40 miles west of Williston Lake. All of the water draining off the Osilinka Ranges flows east to Williston Lake.

Most of the claim is covered with overburden above the tree line. Outcrop exposures are rare.

PREVIOUS WORK

In 1981, Mattagami Lake Exploration Limited carried out geochemical sampling and geological mapping on the then, Alta-1 and 2, Brit-1 and 2 claims.

Mineralization consisting of galena, chalcopyrite and copper weathering products, arsenopyrite and pyrite was located. Soil anomalies of up to 2400 ppb Au were outlined over a large portion of the Brit-1 claim (now Izzi claim).

PREVIOUS WORK - Continued

Geological mapping and petrographic examination led Mattagami Lake to believe that the potential for economic mineralization was limited by two factors; lack of shearing in the host rock and a low level of alteration (deuteric) associated with the anomalous rocks.

No records exist in Victoria to indicate whether or not recommended work was ever carried out on the claims.

EXPLORATION PROGRAM 1985

The 1985 program was designed to confirm the anomalous values in Au established by Mattagami Lake Exploration. In addition, sampling of gossan zones was carried out to test for bedrock sources of gold and copper.

This work was helicopter supported from a base camp at Bear Lake airstrip, 44 miles west of the property.

WORK COMPLETED

C. Hartley, S. Scott, I. Simpson and B. Dale spent a total of 8 man-days carrying out soil and silt sampling and limited rock sampling.

Personnel

C. Hartley - Geologist	3 days x \$135.50 =	\$ 406.50
S. Scott - Geological Assistant	3 days x 71.49 =	214.47
I. Simpson - Geological Assistant	1 day x 72.49 =	72.49
B. Dale - Geological Assistant	1 day x 60.87 =	60.87
M. McDonagh - Cook	3 days x 109.80 =	329.40

Transportation

Helicopter 6.4 hours x \$480/hour	3,032.00
Fixed wing support direct costs	677.40
Fixed wing support mob-demob prorated	1,554.39
Travel Expenses prorated	709.10

Camp Accommodation & Supplies

\$50/man-day x 11 days	550.00
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Geochemical Analysis

28 soil/ ³⁹ silt samples x \$11.08/sample (67 samples)	742.35
13 rock samples x \$15.10/sample (13 samples)	196.30
<i>Tot</i> <u>80 samples</u>	

Post Field

Data plotting and report writing 4 days x \$180/day	720.00
Drafting 8 hrs. x \$25/hour	200.00
Reproduction	80.00
Secretarial 1 day @ \$125.00	<u>125.00</u>

TOTAL	<u>\$9,670.27</u>
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GEOLOGY

No geological mapping was carried out by the field crew, however, the general geologic setting can be described.

The Izzi claim is underlain completely by the Hogem batholith which consists of "bands" of meladiorite and porphyritic monzonite. These alternating rock units are aligned in a northwest strike direction and dip steeply.

Gossan zones are well developed on the claims above treeline. Due to the presence of talc as an alteration product weathering of the bedrock surface is nearly complete thereby presenting little competent bedrock for surface examination.

Table of Formations

Lower Cretaceous		leucocratic granite
Middle Jurassic	Chuchi Syenite	leucocratic syenite, quartz syenite
Lower Jurassic	Duckling Creek Syenite Complex	leucocratic syenite foliated syenite
Lower Jurassic	Hogem Granodiorite	granodiorite, quartz monzonite, minor Tonalite, quartz diorite, quartz monzonite, granite
to		monzonite to quartz monzonite monzodiorite to quartz monzodiorite
Upper Triassic	Hogem Basic Suite	Nation Lakes plagioclase porphyry diorite, minor gabbro, pyroxenite, hornblendite.

(after Garnett, 1978)

GEOCHEMISTRY

A total of 67 soil and silt samples and 13 rock samples were collected on the property. This population of samples is too small to yield meaningful geostatistical data. However, because most of the samples represent anomalous values in one element or another, the following table is presented for soil samples (see map pocket).

Anomalously high background levels of Cu, Zn and Au are revealed by the statistical summary. Additional detailed soil sampling in the anomalous areas is required before representative statistical data can be generated for the Izzi claim area.

RECOMMENDATIONS

Future work on the Izzi claim should be concentrated on delineating possible economic concentrations of polymetallic mineralization. This can be achieved by:

1. Grid construction over the anomalous area. Lines should be 100 meters apart with stations every 50 meters. The baseline should be oriented toward the northwest with cross-lines running northeast and southwest.
2. Detailed soil sampling and geological mapping should be carried out over this grid paying special attention to gossan zones.

RECOMMENDATIONS - Continued

3. Geophysical surveying with a total field magnetometer to delineate magnetic zones and trends.
4. VLF-EM survey to establish the location and orientation of any structures in the area which may act as channels for mineralization.

REFERENCES

- Garnett, J.A., 1978. Geology and Mineral Occurrences of the Southern Hogem Batholith, B.C., Ministry of Mines and Petroleum Resources, Bulletin 70.
- Helsen, J.N., November, 1981. B.C. Tungsten, Report on Expliration, Mattagami Lake Exploration Limited, Company Report.

APPENDIX 1

ROCK SAMPLE DESCRIPTIONS

SAMPLING PROCEDURE

Soil

An 8 ounce sample of soil is collected from the B-horizon, four or more inches below the ground surface where a well defined soil profile has been developed. Coarse material and roots are removed so that only sand size, or smaller particles, are used for analysis. The samples are air-dried at the base camp and sent for analysis to a commercial laboratory.

Silt

A one pound silt sample is taken below the ground surface on an actively depositing stream bank or bar. The sample is sieved to remove coarse gravel and vegetation. It is then air dried in base camp and sent to a commercial laboratory for analysis.

Rock

Samples of fresh outcrop are retrieved where possible to form a representative sample of surface mineralization. Where fresh outcrop is unavailable talus or coarse rock chips representing decomposed bedrock is collected at or below the soil horizon. The samples, comprising about 1 pound of

material are labelled, bagged and sent to a commercial laboratory for analysis.

Rock Sample Description

IZ 2936 to IZ 2942 inclusive

These samples were taken in areas of poor bedrock exposure. Highly weathered outcrop capable of furnishing only loosely consolidated material was sampled. This material consisted of highly weathered, rusty, clay and small rock particles.

- IZ2931 Fine-grained pyroxenite, local increase in plagioclase content. Disseminated pyrite and fracture-coating pyrite. Minor malachite staining.
- IZ2932 Fine-grained pyroxenite, highly altered. Quartz-carbonate vein 5 cm. wide running along shear. 2 cm. wide vein containing pyrrhotite, magnetite, pyrite as major constituents. Mineralization also in disseminated form through ultramafic rock. Minor malachite staining.
- IZ2933 Vuggy calcite-quartz vein with vugs infilled with pyrrhotite, magnetite, pyrite. Vein is 5-10 cm wide, total length untraceable.
- IZ2934 Fine-grained pyroxenite, disseminated and fracture-coating pyrite.
- IZ2935 Mafic diorite with plagioclase phenocrysts. Gossanous with disseminated and fracture-coating pyrite.

QUALIFICATIONS

I, Donald B. Cross of the City of Calgary, Alberta, do hereby certify that:

1. I hold an Honours Bachelor of Science Degree.
2. I am a member of the Canadian Institute of Mining and Metallurgy.
3. I have practiced my profession for more than 11 years.
4. I personally supervised the field crew carrying out work detailed in the attached report.
5. I am employed by Suncor Inc. as a Exploration Geologist responsible for Technical Supervision of field projects.

Dated at Calgary, Alberta this 23rd Day of July, 1985.



Donald B. Cross

APEX ANALYTICAL LABORATORIES, CALGARY

SAMPLE PREPARATION

ROCKS AND DIAMOND DRILL CORE:

These samples are crushed by a primary jaw crusher then through a secondary cone crusher to a particle size of 1/4 inch. The sample is now riffled and a 200 gram portion is kept and pulverized in a terner mill to -200 mesh fraction. The remainder of the sample is kept as a reject. The pulverized sample is rolled to make sure it is well mixed and is then weighed and analyzed.

SOILS

Soil samples are dried and then screened through a 80 mesh stainless steel screen. The -80 mesh sample fraction is then weighed and analyzed. If a soil sample contains an excess of pebbles or is too small, then the entire sample must be pulverized to -200 mesh. This is the only way in which enough material may be found for analysis.

GEOCHEMICAL ANALYSIS - AQUA REGIA DIGESTION

- 1) Place 18 x 150 mm test tubes in aluminum digestion blocks.
- 2) Weigh 0.5 g of sample into test tubes.
- 3) Intersperse samples with blanks, checks and certified reference materials.
- 4) If samples are highly organic, dry ash in aluminum blocks on hot plates with hot plates set at 6-7 for 2-3 hours. Cool.
- 5) Add 2 ml conc. HNO_3 and heat 40-45 minutes with hot plates set a 5. Cool.
- 6) Transfer to wire racks but leave aluminum blocks on hot plates.
- 7) Add 3 ml conc. HCl . Let sit 15-25 minutes.
- 8) Add 2 ml H_2O to the blanks.
- 9) Place test tubes back in aluminum blocks, one row at a time watching for any samples that might have too violent a reaction.

If samples start to overflow, cool test tubes in a beaker of cold water and then place back in aluminum blocks.
- 10) Digest samples for 2 hours.
- 11) Add 1.0 ml of ammonium acetate solution to each tube and leave on a hot plate a further 15 minutes.
- 12) Remove samples from aluminum blocks, transfer to wire racks and let cool.
- 13) Dilute to 10 ml with 1 N HNO_3 : vortex and allow to stand for 3 hours.
- 14) Read on A.A. against similarly prepared standards.

NOTE: Arsenic analysis by semi quantitative method, is run from the above solutions using a varian AA-5 spec. and recorder (if necessary to graph results.

FIRE ASSAYING

The following is a brief outline of the mechanics of fire assaying for gold and silver.

The ore is mixed with litharge (PbO) and various fluxes and a reducing agent or oxidizing agent is added, (flour or niter) to form a lead button which weighs between 25 and 35 grams. The whole mix is melted in a fire clay crucible at around 1000°C for 30-40 minutes. The lead collects all the gold, silver and precious metals. The molten assay is taken from the furnace and poured into cone shaped iron molds and due to the differences in the specific gravity of the lead and the slag, the lead collects in the bottom of the mold. When cooled the lead button is separated from the slag and hammered into a cube for ease of handling. The button is then placed in a pre-heated cupel in a furnace with the temperature set at around 900°C. A current of air passes over the top of the cupel containing the lead. The lead is converted back to litharge and is absorbed by the cupel.

Gold and silver are not affected and so remain in the cupel as a small bead. After cupellation is complete (about 60 minutes), the cupel is removed from the furnace. The small bead is then cleaned, flattened with a hammer and transferred to a parting cup. This flattened bead consists of a mixture of gold and silver.

The bead is weighed on a gold balance or micro balance. The bead is parted by placing it in hot, dilute nitric acid which dissolves all the silver but leaves the gold intact. The gold is washed free of silver nitrate by decantations with water and dilute ammonium hydroxide and then annealed at red heat and weighed as pure gold. The difference between the two weighings is the weight of silver.

The bead is weighed in milligrams and the results expressed in ounces per ton in the original sample.

METHOD FOR THE DETERMINATION OF GOLD BY FIRE ASSAY

PRECONCENTRATION AND ATOMIC ABSORPTION ANALYSES

1. A 1 assay ton (29.166g) sample is weighed into a 30 g crucible, 1 mg of Ag is added as a collected agent.
2. Enough flux reducing or oxidizing reagent is added to produce a lead button.
3. The sample is transferred into an assay furnace and heated to 2000°F for 40-45 minutes.
4. The fusion is poured into a iron mould.
5. The slag is separated from the lead button in which Au and Ag has been alloyed.
6. The lead button is again transferred to a cupel in the assay furnace.
7. By heating slightly below melting point of Ag, Lead is eliminated either by vaporizing or absorbing into the cupel in about 40 minutes.
8. A bead which contains all the Au in the 1 assay ton sample is recovered on the cupel.
9. The bead is transferred to a 16 x 150 mm test tube, 1 ml of concentrated HNO₃, and 4 ml of 1:1 HCl are added to the tube.
10. The tube is heated on the hot plate for approximately 1 hour, or until all the residue is dissolved in the tubes.
11. The volume is adjusted to 10 ml with 1:1 HCl and the samples are mixed.
12. Samples are read on a Varian AA5 Atomic absorption spectrophotometer.

*RS,PRJYR,ROCK,SAMPLE,AU,AG,AB,AS,CU,PB
 *NUMBER,FAA OZS,AA PPB,FAA OZS,AA PPM,AA PPM,AA PPM,AA PPM

	RS	PRJYR	ROCK	SAMPLE	AU	AG	AB	AS	CU	PB				
				NUMBER	FAA OZS	AA	PPB	FAA OZS	AA	PPM	AA	PPM	AA	PPM
R	80	04085		I22931		151		1.7	100					
	80	04085		I22932		19		3.7	100					
	80	04085		I22933		212		10.2	100					
O	80	04085		I22934		5		0.7	100					
	80	04085		I22935		5		0.9	100					
	80	04085		I22936		102		1.0	100					
C	80	04085		I22937		188		0.7	100					
	80	04085		I22938	0.061	1525		3.2	100					
	80	04085		I22939		154		2.7	100					
K	80	04085		I22940		177		13.5	200					
	80	04085		I22941		151		2.6	100					
	80	04085		I22942		171		0.6	100					
J	80	04085		I22943	0.088	1440		8.0	100					
	50	04085		I25526		5		0.3	100		32	21		
	50	04085		I25527		5		0.4	100		36	14		
	50	04085		I25528		5		0.3	100		12	11		
	50	04085		I25529		5		0.4	100		272	15		
	50	04085		I25530		5		0.6	100		261	25		
S	50	04085		I25531		5		0.5	100		437	12		
	50	04085		I25532		7		0.6	100		405	13		
	50	04085		I25533		5		0.5	100		231	13		
	50	04085		I25534		17		0.5	100		110	12		
	50	04085		I25535		5		0.7	100		238	11		
	50	04085		I25536		9		0.6	100		101	11		
O	50	04085		I25537		12		0.4	100		213	10		
	50	04085		I25538		7		0.5	100		76	11		
	50	04085		I25539		7		0.3	100		57	11		
	50	04085		I25540		9		0.4	100		192	13		
	50	04085		I25541		72		0.5	100		63	12		
I	50	04085		I25542		137		0.6	100		46	12		
	50	04085		I25543		34		0.5	100		50	13		
	50	04085		I25544		108		0.4	100		110	15		
	50	04085		I25545		50		0.7	100		124	16		
L	50	04085		I25546		77		0.5	100		168	14		
	50	04085		I25547		222		0.5	100		142	21		
	50	04085		I25548		102		0.7	100		612	20		
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	50	04085		I26407		5		0.5	100		33	36		
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T	50	04085		I26422		5		0.4	100		112	18		
	50	04085		I26423		5		0.4	100		91	25		

DATE 120985

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	50	04085		I26425		5		0.3	100		111	24		
	50	04085		I26426		5		0.3	100		109	26		
	50	04085		I26427		5		0.4	100		103	29		
	10	04085		I26428		67		0.3	100		96	10		
O	10	04085		I26429		12		0.2	100		94	11		
	10	04085		I26430		5		0.3	100		111	26		
S	10	04085		I26431		24		0.3	100		90	10		
	10	04085		I26432		5		0.2	100		113	16		
	10	04085		I26433		5		0.2	100		106	14		
	10	04085		I28528		86		0.3			98	21		
	10	04085		I28529		98		0.2			90	12		
	10	04085		I28530		257		0.6			306	25		
	10	04085		I28531		156		0.4			340	17		
	10	04085		I28532		156		0.6			443	18		
L	10	04085		I28533		139		0.4			280	13		
	10	04085		I28534		205		0.8			361	21		
	10	04085		I28535		48		0.5			234	16		
	10	04085		I28536		24		0.4			138	7		
	10	04085		I28537		137		0.5			266	15		
T	10	04085		I28538		120		0.5			242	17		
	10	04085		I28539		120		1.0			224	9		
	10	04085		I28540		108		0.6			243	12		
	10	04085		I28541		411		0.6			196	10		
	10	04085		I28542		98		0.5			202	12		
	10	04085		I28543		7		0.4			88	7		

..... END REPORT

80 SAMPLES (ROCK 13, SOIL 28, SILT 39)

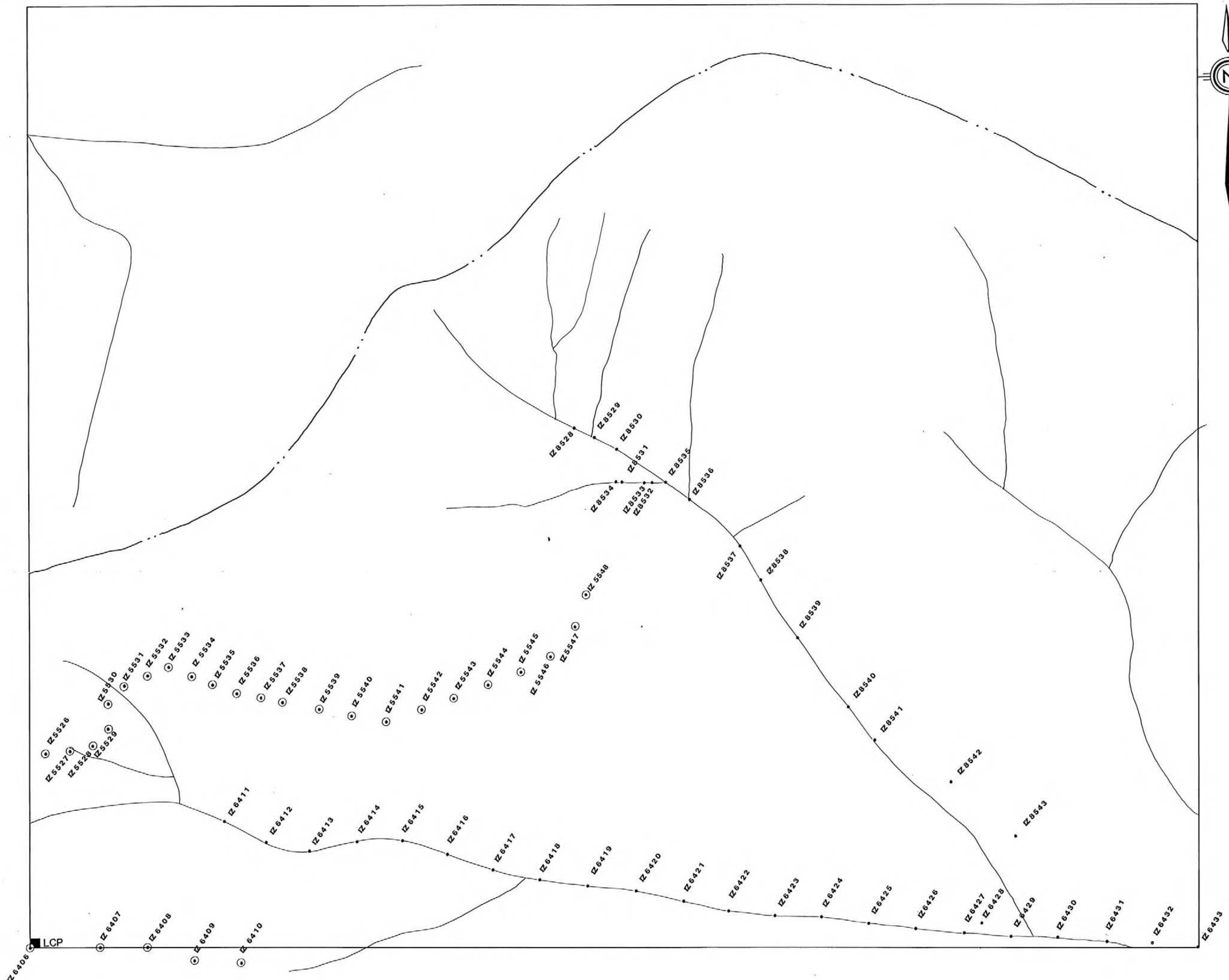
80 MAP LOCATIONS

IZZI CLAIM CRPSTAT

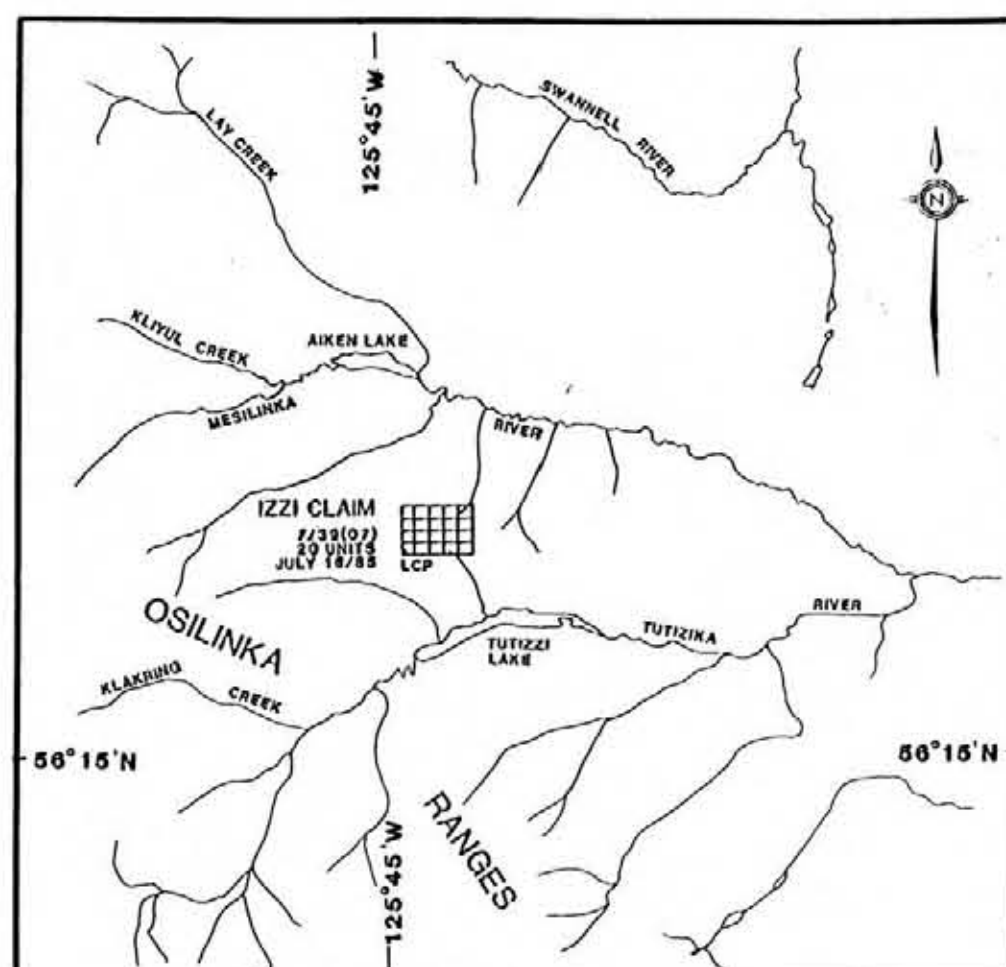
SUMMARY STATISTICS

SUBSET	VARIABLE	UNITS	N	ARITH	STD	CV %	SKEW	EXCESS	95% LIMITS	GCOM	LOG 10	STD	95% LIMITS		
				MEAN	DEV			KURT	ON MEAN		MEAN	MEAN	DEV	ON MEAN	
TOTAL	CU AA	PPM	45	151.	121.	80.5	1.72	3.54	114.	187.	110.	2.0429	.3678	85.6	182.
TOTAL	PF AA	PPM	45	19.3	8.42	43.6	1.36	1.60	16.8	21.8	17.8	1.2507	.1701	15.8	20.0
TOTAL	ZN AA	PPM	44	68.6	39.0	56.8	2.94	8.95	56.8	80.5	62.4	1.7950	.1726	55.3	70.4
TOTAL	AU AA	PPM	45	28.3	55.7	196.6	2.83	7.58	11.6	45.0	10.0	1.0018	.5258	6.98	14.8
TOTAL	AG AA	PPM	45	.456	.110	24.1	.53	-.26	.423	.489	.443	-.3536	.1039	.412	.476

SUBSET	VARIABLE	UNITS	N	MIN VALUE	PERCENTILE							MAX VALUE		
					25TH	50TH	75TH	80TH	90TH	95TH	98TH		99TH	
TOTAL	CU AA	PPM	45	12.000	63.000	112.000	213.000	231.000	356.000	437.000	612.000	612.000	612.000	612.000
TOTAL	PF AA	PPM	45	10.000	13.000	16.000	25.000	25.000	30.000	40.000	48.000	48.000	48.000	48.000
TOTAL	ZN AA	PPM	44	38.000	48.000	57.000	73.000	78.000	112.000	218.000	228.000	228.000	228.000	228.000
TOTAL	AU AA	PPM	45	5.000	5.000	5.000	12.000	34.000	108.000	222.000	257.000	257.000	257.000	257.000
TOTAL	AG AA	PPM	45	.300	.400	.400	.500	.500	.600	.700	.700	.700	.700	.700



KEY MAP



SYMBOLS

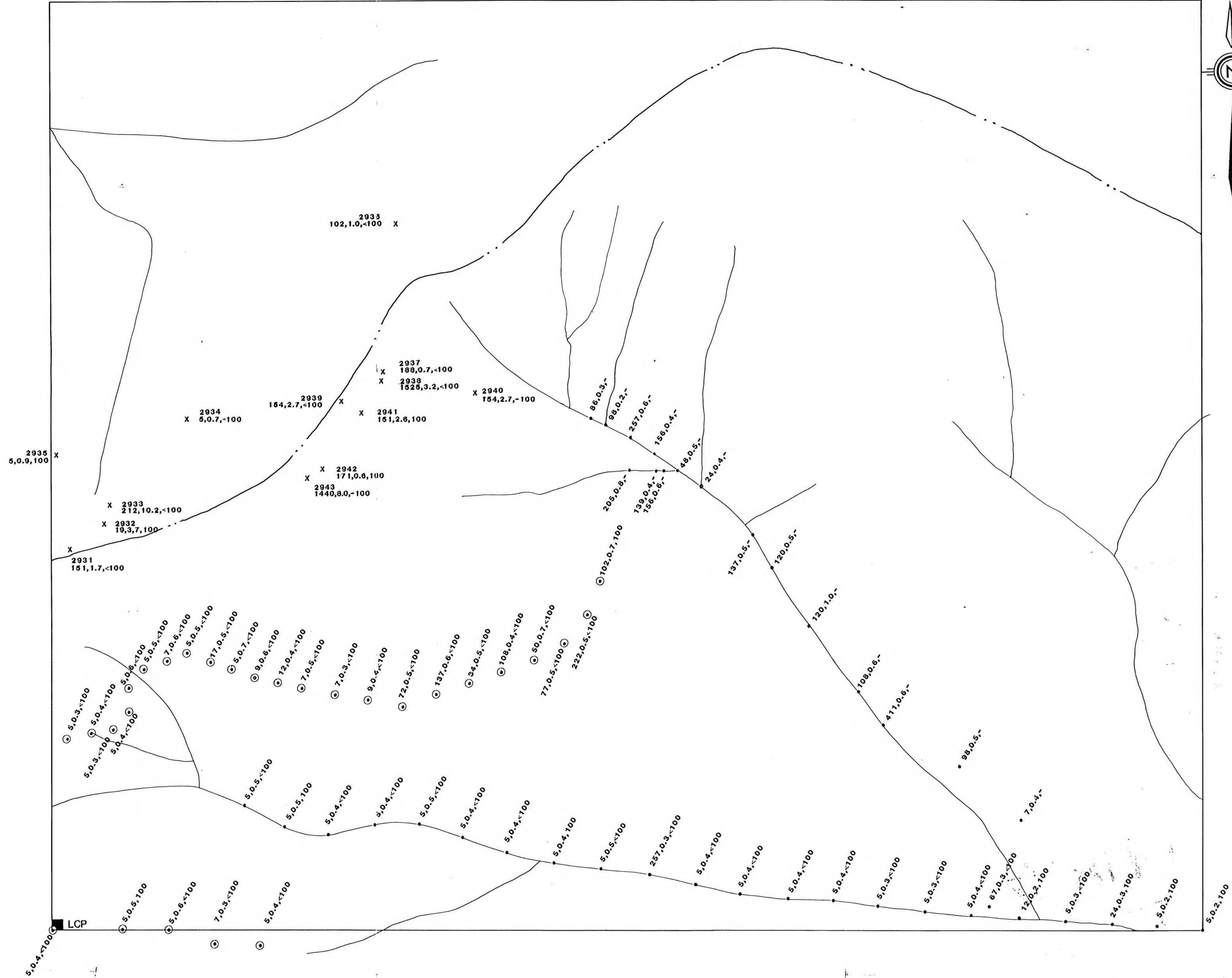
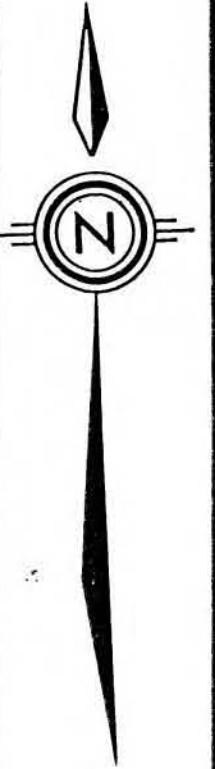
- IZ 5540 © SOIL SAMPLE
- STREAM SEDIMENT SAMPLE
- RIDGE CREST

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

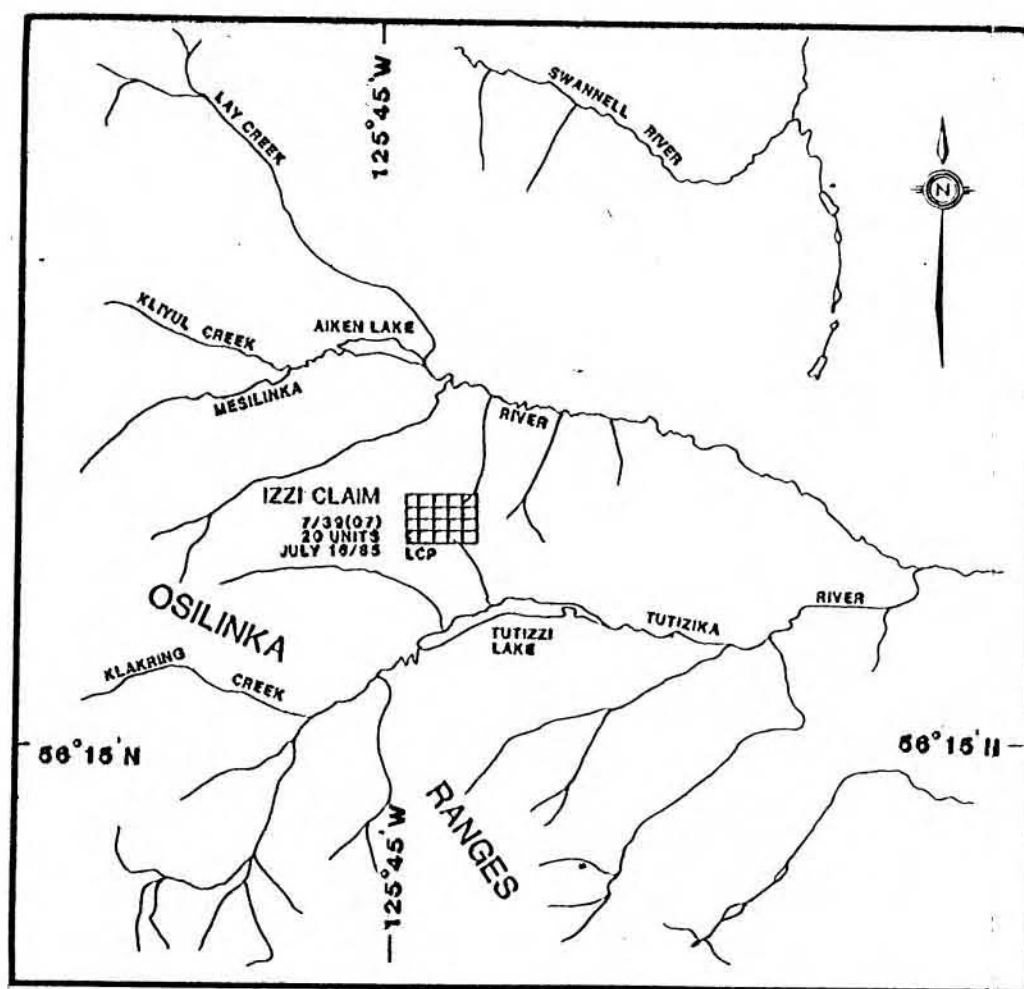
14,809



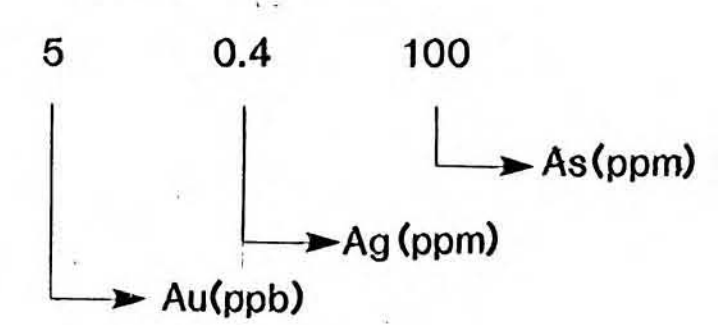
Suncor Inc. Resources Group		COAL AND MINERALS DEPARTMENT	
OMINECA OPTION			
IZZI CLAIM			
SOIL & STREAM SEDIMENT SAMPLE LOCATIONS			
DATE	SCALE	N.T.S.	DRAWING No.
OCT/85	1:5000	94C/5E	IZZI 003



KEY MAP



LEGEND

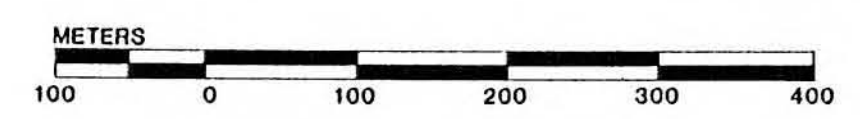


SYMBOLS

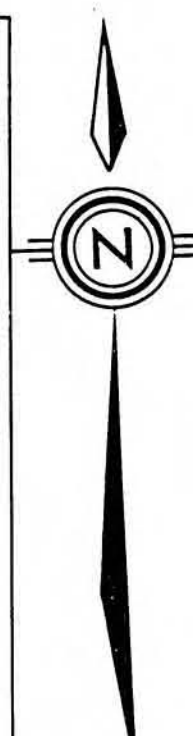
- ⊙ SOIL SAMPLE (28 SAMPLES)
- 2942 X ROCK SAMPLE LOCATION (13 SAMPLES)
- STREAM SEDIMENT SAMPLE (39 SAMPLES)
- RIDGE CREST

GEOLOGICAL BRANCH ASSESSMENT REPORT

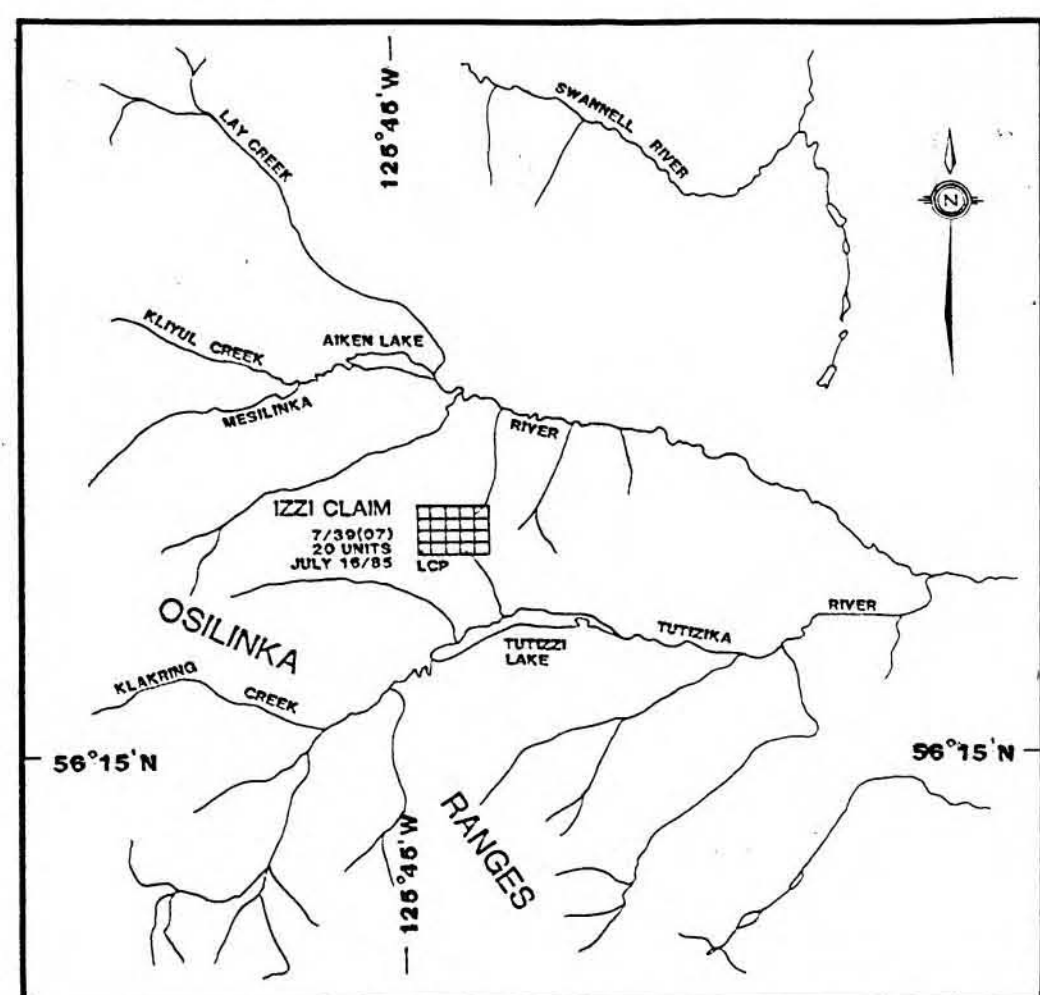
14,809



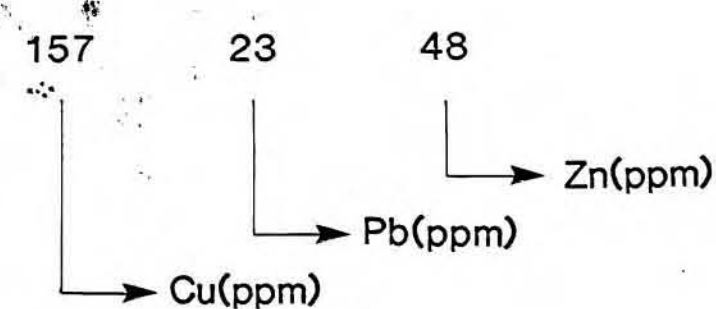
Suncor inc. Resources Group		COAL AND MINERALS DEPARTMENT	
OMINECA OPTION			
IZZI CLAIM			
GEOCHEMICAL RESULTS Au,Ag,As			
DATE	SCALE	N.T.S.	DRAWING No.
OCT/85	1:5000	94C/5E	IZZI 005



KEY MAP



LEGEND

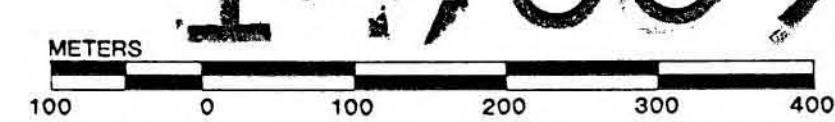


SYMBOLS

- ⊙ SOIL SAMPLE
- STREAM SEDIMENT SAMPLE
- RIDGE CREST

GEOLOGICAL BRANCH ASSESSMENT REPORT

14,809



Suncor Inc. Resources Group		COAL AND MINERALS DEPARTMENT	
OMINECA OPTION			
IZZI CLAIM			
GEOCHEMICAL RESULTS Cu,Pb,Zn			
DATE	SCALE	N.T.S.	DRAWING No.
OCT/85	1:5000	94C/5E	IZZI 004