87-213-15937

GEOCHEMICAL AND GEOPHYSICAL REPORT
on the
GOLDEN LOONS I - II - III - IV - VII

in the

KAMLOOPS MINING DIVISION B.C.
92P/8W
51°25' Lat. 120°17' Long.
15'

REPORT PREPARED BY:

Owner/Operator. Larry D. Lutjen
L. D. LUTJEN

March 7, 1987

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APPENDIX

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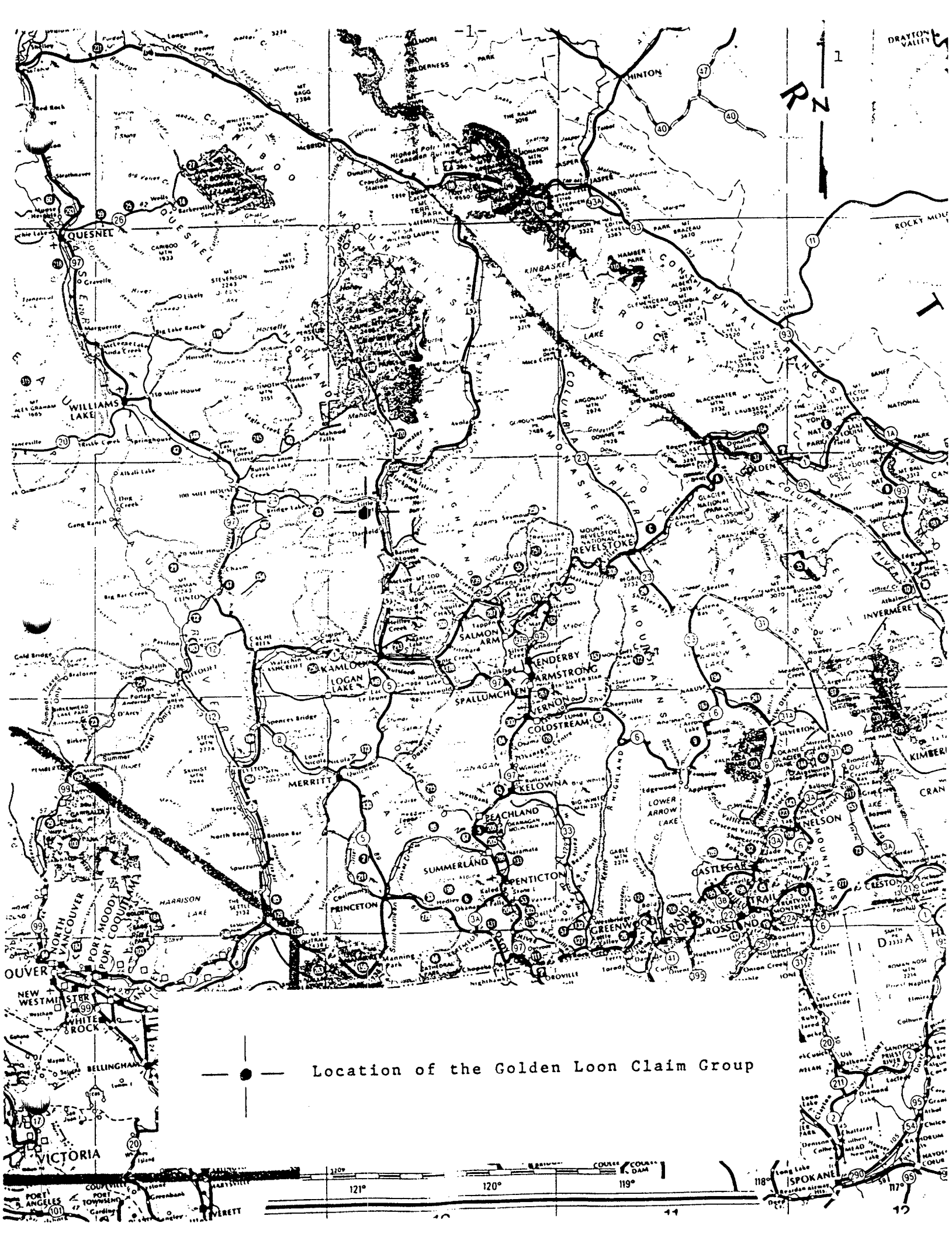

Location of the Golden Loon Claim Group
QUESNEL
WILLIAMS LAKE
HINTON
JASPER
GOLDEN
REVELSTOKE
SALMON ARM
KAMLOOPS
LOGAN LAKE
MERRITT
ENDERBY
ARMSTRONG
VERNON
COLDSTREAM
SPALLUMCHEEN
KELOWNA
PEACHLAND
SUMMERLAND
PENTICTON
PRINCETON
GREENWOOD
GRAND FORKS
ROSSLAND
TRAIL
CASTLEGAR
NELSON
CRESTON
INVERMERE
KIMBERLEY
CRANBROOK
FERNIE
NEW WESTMINSTER
WHITE ROCK
VICTORIA
BELLINGHAM
SPOKANE
PORT ANGELES
EVERETT
HARRISON LAKE
LOWER ARROW LAKE
DRAYTON VALLEY
R 1 W

GEOLOGIC LEGEND

Tertiary: 7 - 70 m

Miocene or Pliocene

mTb - mTb - Plateau lava, olivine basalt.

Eocene:

eT - eT - Kamloops Group, undifferentiated.

Cretaceous: 70 - 135 m

Kg - Kg - Baldy Batholith; biot.qtz.monzonite and granodiorite; minor pegmatite, aplite, biot.hnbl.qtz.monzonite.

Jurassic: 135 - 180 m

Jur - Jur. - undivided units 15 and 16 of Campbell & Tipper(1969); includes andesitic flows, breccias and tuffs with lesser argillite, conglomerate and siltstone.

Triassic-Jurassic:

Tr-J - Tr-J - Thuya Batholith; hnbl.biot.qtz.diorite and granodiorite, minor hnbl.diorite, monzonite, gabbro, hornblendite.

Triassic: 180 - 225 m

TrN - TrN - Nicola Group; undivided units 10 and 11 of Campbell & Tipper(1969); augite andesite flows and breccias, tuff, argillite, shale, phyllite, limestone.

Pennsylvanian-Permian: 225 - 325 m

P-Pm - P-Pm - unit 3 of Campbell & Tipper(1969); includes volcanic arenite, greenstone, argillite, phyllite; minor qtz.-mica schist, limestone, basalt-andesite flows, amphibolite, conglomerate and breccia; Cache Creek Group.

GEOLOGIC LEGEND cont'd.:

Devonian to Permian: 225 - 400 my

Fennell Formation:

uF - uF - upper structural division of Schiarriza et al(1984); pillowed and massive metabasalt, tuff diabase, gabbro; bedded chert.

lF - lF - lower structural division(as above); includes metabasalt flows and breccias, rhyolite, tuff, gabbro, diabase, diorite, bedded chert, phyllites and conglomerate.

Unknown Age:

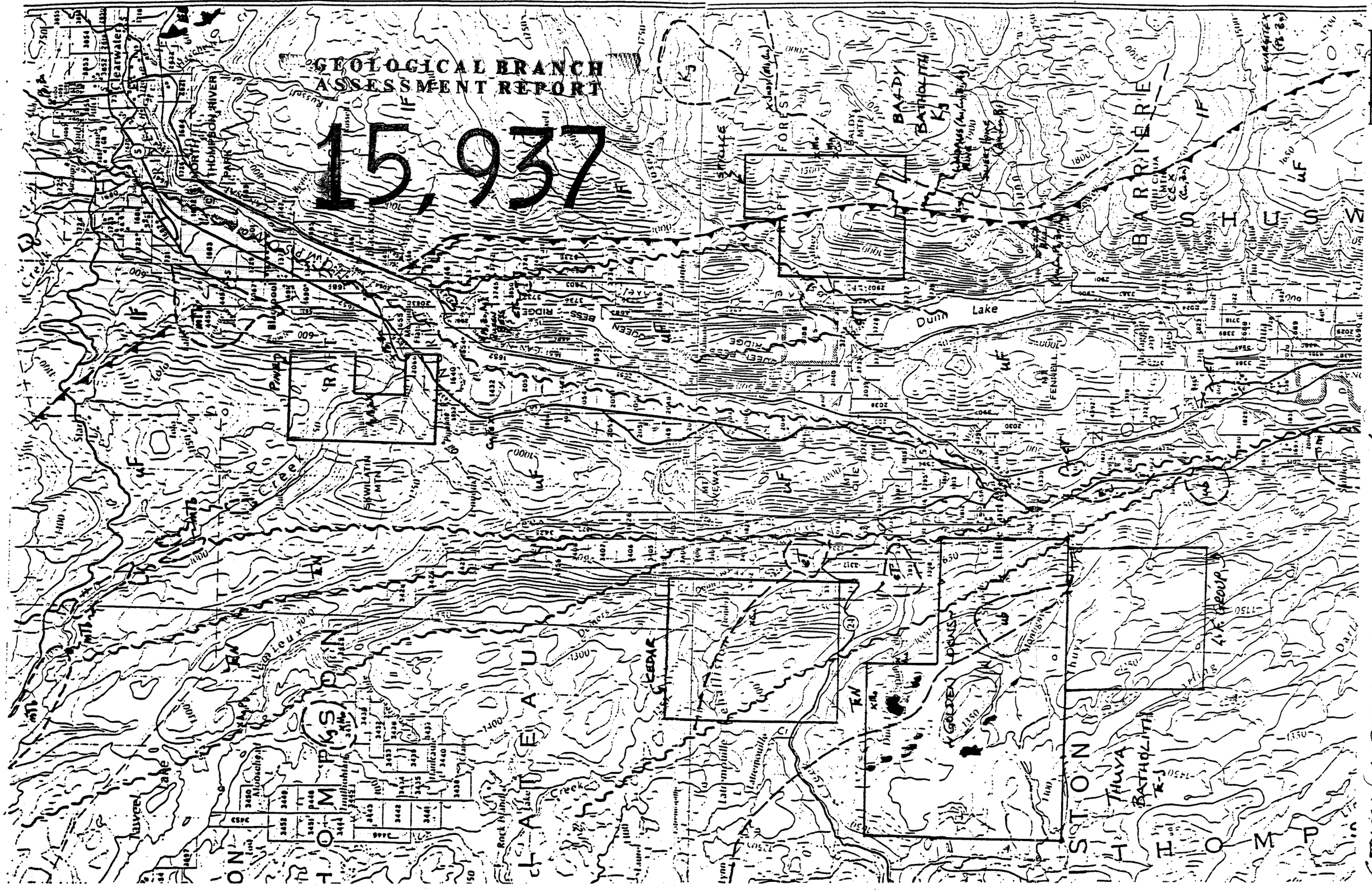
ub - ub - Serpentinite.

SYMBOLS

- fault, normal.
- thrust fault.
- geologic contact.
- placer-gold stream.
- $\times_{Au}$ - mineral occurrences.
- claim boundary.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,937



GEOLOGIC ; REPORT - LITTLE FISH AREA

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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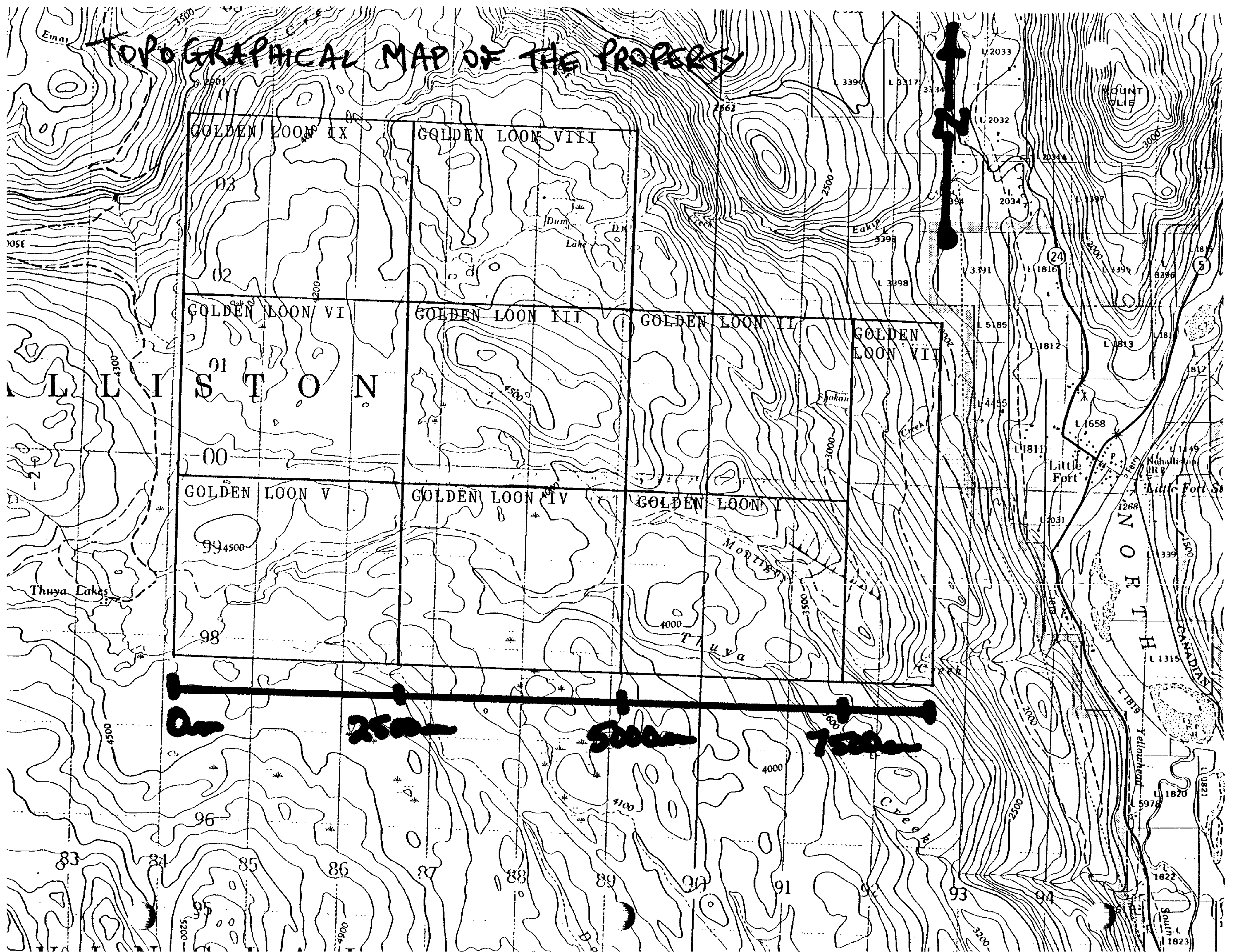
CLAIM MAP



TOPOGRAPHICAL MAP OF THE PROPERTY
N
GOLDEN LOON IX
GOLDEN LOON VIII
GOLDEN LOON VI
GOLDEN LOON III
GOLDEN LOON II
GOLDEN LOON VII
GOLDEN LOON V
GOLDEN LOON IV
GOLDEN LOON I
0m
2500m
5000m
7500m
Thuya Lakes
Little Fort
Mount Olie
Dum Lake
Thuya Creek

PROPERTY AND OWNERSHIP

The Golden Loons Group consists of 80 units, Golden Loon V, Golden Loon VI, Golden Loon VIII, and Golden Loon IX. They were recorded on metal tag no. 90728, 90729, 107329, and 124752 respectively.

The claims were recorded in the Kamloops Mining Division, record numbers 6539 - 20 units, 6540 - 20 units, 6550 - 20 units, and 6556 - 20 units respectively.

The Golden Loon V & Vi was recorded on 7 March 1986, the Golden Loon VIII on 14 March 1986, and the Golden Loon IX on the 27 March 1986.

The owner of the Golden Loon Group (V - VI - VIII - IX) is Larry D. Lutjen of RR1 - B12 - S11; Chase, B.C.; V0E 1M0. Phone (604) 679-8022.

LOCATION AND ACCESS

These properties are located approximately 8 km West of Little Fort, B.C. a town on highway 5 about 90 km North of Kamloops. It can be reached via the Thuya Lakes Resort road, an all weather, well maintained gravel road. The property itself is 2 km East of the Thuya Lakes. It is located at 51° 25' latitude and 120° 17' longitude.

GEOLOGY

To the center South of the Golden Loon Group the area is comprised of Upper Triassic, or Lower Jurassic Thuya Lake Batholith. To the center North metasediments of the Nicola Group (Upper Triassic) comprised of augite, shale, phyllite, and limestone (Campbell and Tupper 1966). In between these two structures lies anultramafic formation of unknown origin striking NNW,and contains peridotite, serpentite, and penlandite. The relationship between the ultramafic material and the granodiorite is unknown. The granodiorite is fairly homogeneous and medium-grained with massive hornblende-biotite granodiorite with chloritic and epidote alteration in small amounts. Some pegmatitic material is to be located on the Loons VI & IX with quartz selvages along jointing planes dispersed with pyrite, chalcopyrite, and galena.

Close to the ultramafic contact the frequency and size of the quartz selvages increase to where stringers 5cm to 25 cm wide can be expected every 5 - 6 meters. Stringers strike N - S and dip to the West, containing small amounts of pyrite, chalcopyrite, and galena.

VEGETATION

The elevation is from 600m - 1200m with moderate to extreme sloping topography. The underbrush is medium to thick with extensive growths of buck brush.

The timber consists mostly of fir, pine, cedar, spruce, birch and alder.

At higher elevations the topography is very swampy with many small semialpine marsh-ponds.

HISTORY

In 1967 - 68 Noranda Exploration Ltd.,looking for copper, staked 74 claims in the area of the Golden Loon VIII. They staked 120 claims in all mostly around Dum Lake and did extensive soil geochemistry (see Appendix A). It was on these claims that Noranda found anomalous values of copper and nickle but couldn't locate the source.

In 1972 - 73 Rio Tinto picked up part of Noranda's claim in the area of the Golden Loon VIII and IX. They also did extensive soil sampling but couldn't locate the source of the copper and nickle.

Then in 1980 - 81 Tech Explorations Ltd. picked up Rio Tinto's ground and new claims to the South (see Appendix B). They staked 51 units (Minerva Group) on the basis of high silver lake sediments previously taken. Their properties coincided with the Golden Loons VI and IX. They did 60 km of flagged grids and the results showed several high anomalous zones of silver and there recommendations were to follow-up for gold. Why they didn't I do not know.

Previous to all of this work and at the turn of the century a considerable amount of work was done on Eakin Creek for placer gold. Eakin Creek is to the immediate East of the Golden Loon VIII and produce a considerable amount of gold, no lode deposit yet discovered.

Property Outline

1. Nickel Sulfide Ultramafics & Gold - In the late 70's I became very interested in the affinity of gold with ultramafic rocks, in particular serpentinites. As you may or may not know 80% of the high-grade gold ore-shoots in the California Mother Lode (Melones Fault Zone); Alleghamy district, were within 100 feet of serpentinite wall rock (Ferguson and Gannett; 1929, Engineers Technical Publication 211). Keay's suggests that talc-carbonate hydrothermal alterations of ultramafic rocks releases significant quantities of gold (Keays and Davison; 1976, Economic Geology Vol. 71, pp. 1214-1228). Gerard documents ore grade zones of gold associated with talc-carbonate hornfels (listwaenites) in ultramafic rocks (Buisson and Leblanc; 1985, Economic Geology pp. 2028-2029).

2. Chemical Reactions in Ultramafic Rocks - When the olivine metamorphoses into serpentine and magnetite (Thayer Reaction: Olivine + $H_2O \rightleftharpoons$ Serpentine + MgO (Ag) + Magnetite + $H_2\uparrow$) there is a massive release of hydrogen (H_2) gas; and, if this was to combine with a gold sulfide solution the gold would percipitate out ($AuS^- + \frac{1}{2} H_2 \rightleftharpoons Au^\circ + HS^-$); personal correspondence with Dr. Raymond M. Coveney Jr., University of Missouri - Kansas City, Kansas City, Missouri.

3. Mineral Claims Map - In the enclosed synopsis there is a Mineral Claims Map with the Loons outlined. To the North-east a series of placer claims (PL 2316(Y) etc.) are on Eakin Creek, no lode deposit yet discovered.

4. Previous Exploration on the Golden Loons - In the late 1960's Noranda did extensive work in the Dum Lake area looking for copper, and knowing the association of copper/nickel deposits with ultramafic massifs, did an extensive geochemical and geophysical survey (60km) in the Dum Lake area.

5. Exploration Results - Teck Explorations Ltd.'s geologist, Peter G. Fold, P. Eng. recommended the following:
   a. Examine anomalous zones, particularly south of Dum Lake.
   b. Determine the gold potential in the anomalous zones since the geological environment would suggest that gold might be present
   c. Further prospecting

   Why they didn't analyze for gold or examine the anamalous zones I do not know?

6. Current Exploration on the Golden Loon's - In 1984/85 the first of Teck's anomalies we sampled, West of Montigy Lake, ran 3500 PPM Pb. To date we still haven't sampled any of the others; but, they remain a future high priority.

7. Talc-Carbonate Hornfels (Listwaenites) - In 1984/85 while mapping the ultramafic outcrop East of Montigy Lake we discovered a massively altered zone of talc-carbonate, with quartz float samples of 2850 p.p.b. Au, 29.1 p.p.m. Ag, and 3469 p.p.m. Pb. Throughout the zone we have anomalous soil samples of .5 p.p.m. - 1.9 p.p.m. Ag and 500 p.p.m. - 2100 p.p.m. Ni.

Technical Information

1. Main Target - Gold (Au), Silver (Ag), Nickel (Ni), Chromium (Cr), Copper (Cu), Platinum (Pt), and Palladium (Pd).

2. Property Name -Golden Loons I - IX.

3. Location, Access, and Mining Division - Lat. 51°25' Long. 120°17' and N.T.S. 92P/8. Access is via Thuya Lake road out of Little Fort B.C. which is an all weather road. The Golden Loons are in the Kamloops Mining Division and the District Geologist is Mr. Rick Meyers.

4. Number and Type of Claims - Golden Loon I (Rec. No. 5541-20 units), Golden Loon II (Rec. No. 5542-20 units), Golden Loon III (Rec. No. 5543-20 units), Golden Loon IV (Rec. No. 5544-20 units), Golden Loon V (Rec. No. 6539-20 units), Golden Loon VI (Rec. No. 6540-20 units), Golden Loon VII (Rec. No. 6549-16 units), Golden Loon VIII (Rec. No. 6550-20 units), and Golden Loon IX (Rec. No. 6556-20 units).

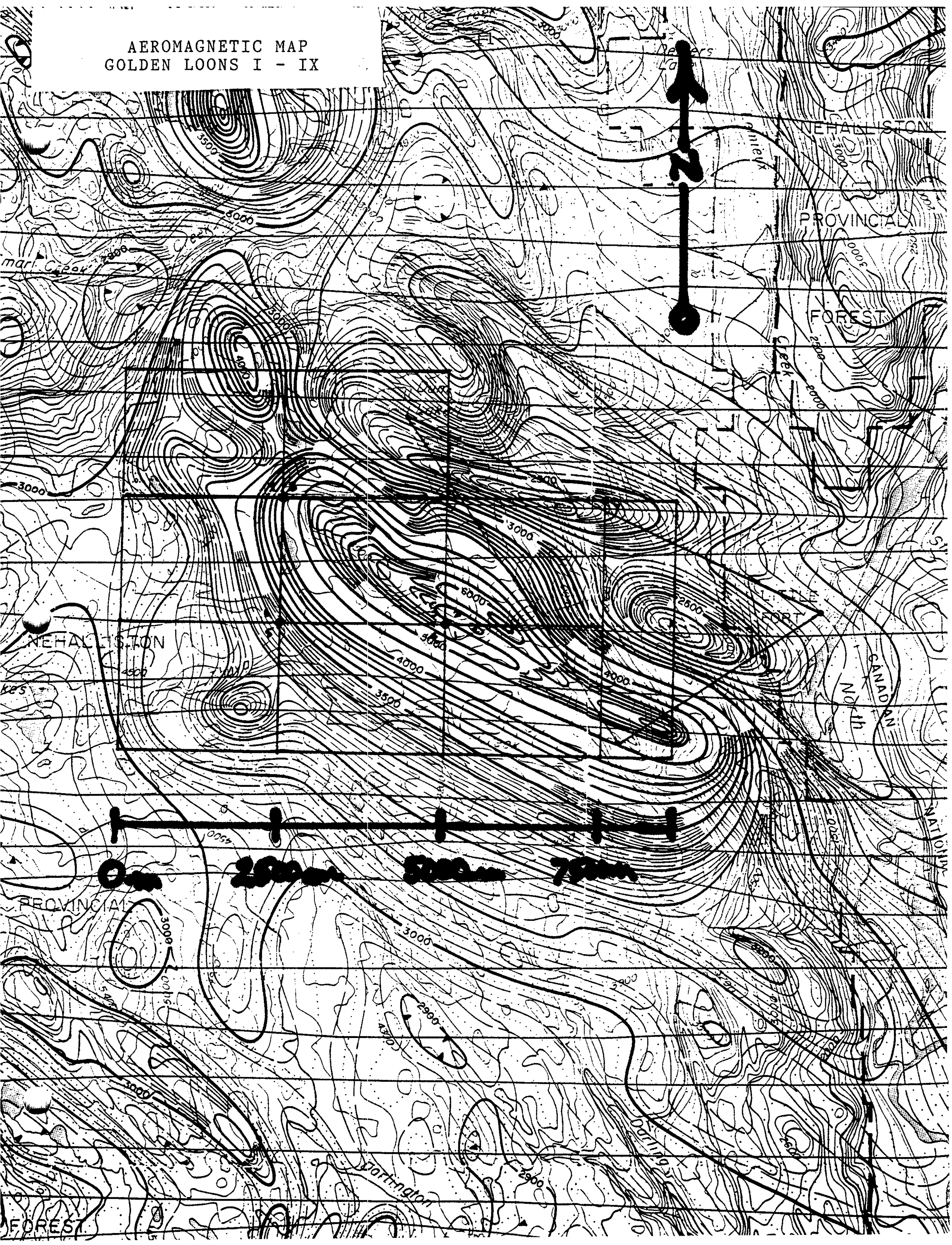
5. Options and Obligations - The entire block of Golden Loons I-IX are 100% owned by Mr. Larry D. Lutjen; R.R. #1 Box 12; Chase, B.C.; V0E 1M0; 679-8022.

6. Regional and Local Geology - Upper Triassic or Lower Jurassic Thuya Batholith of granodiorite has intruded the Golden Loons to the South and to the North the metasediments of the Triassic Nicola Group of augite, shale, phyllite, and limestone (Campbell and Tupper 1966). In between these two structures lies an ultrabasic formation of unknown origin striking NNW, and containing peridotite, serpentite, and pentlandite. The contacts are unknown but structural strike of the area trend NNW. The intrusion of the ultrabasics suggests deep rooted faulting.

7. Status of Exploration and Results - To the immediate West and including the Golden Loons VI, VIII, and IX Teck Explorations Limited surveyed 60 kM of flagged grid in 1980/81 with the following results "Copper/Ag anomalies are found at the contacts of a ultramafic intrusion and associated dykes. Some effort should be made to determine the gold potential in the anomalous zones since the geological environment would suggest that Au might be present", why they didn't follow-up for Au I do not know; but, possibly the recession in the mining industry in the early 1980's had some effect on exploration expenditures. In 1985 using Teck's geochemical results we surveyed one anomaly West of Montigy Lake and got values of - 3500 PPB Au, 23.2 PPM Ag, and 495 PPM Pb. In another area to the East on the Golden Loons II and III we mapped a contact zone of calc/silica hornfels (listwaenites) that have a wide band of Ag anomalies, some of the recorded values were 2850 PPB Au, 29.1 PPM Ag, 3664 PPM Pb, from grab samples.

8. Conclusions - Based on the high Au and Ag values obtained on the Golden Loon and the excellent possibilities of platinum and palladium in an ultramafic nickel/copper suite, a success-contingent exploration program is recommended to further evaluate the economic potential of the property.

AEROMAGNETIC MAP GOLDEN LOONS I - IX



RECOMMENDATIONS

A detailed topographic plan using enlargements of available topographic maps and aerial photographs should be prepared at a scale of 1:2,400.
All claim posts, test pits and other physical features should be surveyed.
Detailed geological mapping should be undertaken over the entire property.
Rock geochemical samples should be initially analysed for Au and Ag. All sample pulps should be retained pending further analyses after additional base-matal and pathfinder elements have been determined.
Four picketed and flagged grids should be established to outline the anomalies as follows:

Golden Loon II & III grid = 1.5K/1K	(16km)
Golden Loon V & VI grid = 1K/1K	(11km)
Golden Loon VIII & IX grid = 1K/1K	(11km)
Golden Loon I & II grid = 1K/1K	(11km)

Soil geochemical samples of "B" horizon soils should be collected over the grid. Soil samples should be analysed for Au and Ag and other pathfinder elements to be identified after soil profiling and multi-element analysis.
All geological and/or geochemical anomalies could be further delineated with the use of a detailed magnetometer and VLF-EM survey. In addition a detailed S.P. survey will outline mineralization.
All geological, geophysical and/or geochemical anomalies should be investigated by surface trenching to define the source. A crawler backhoe would be best suited for this work. All mineralized zones should be properly mapped, sampled and samples should be assayed for Au, Ag, and base-metal values. All sample pulps should be retained pending further analysis.

Estimated start date of program - June 1, 1987.

Estimation of completion - August 31, 1987.

BIBLIOGRAPHY

Campbell and Tupper G.S.C. Map 3, 1966, Assessment Report #1051 by: Noranda Exploration Co. Ltd., Assessment Report #4689 by; Rio Tinto Explorations Ltd., Assessment report #9061 by: Teck Exploration Ltd., 1984/1985 Assessment Report on Golden Loons.

COST EXTIMATES PROGRAM I

1.	Preparation of preliminary topographic base map	$ 2,000.00
2.	Geological survey, mapping, and related costs	4,200.00
3.	Geological analyses - 50 samples at $14/sample	700.00
4.	Line picketing and flagging - 49km at $250/km	12,500.00
5.	Geochemical sampling - 49km at $125/km	6,125.00
6.	Geochemical analyses - 2009 samples at $.70/sample	1,406.00
7.	Magnetometer survey - 49km at $125/km	6,125.00
8.	VLF/EM survey - 49km at $125/km	6,125.00
9.	S.P. survey - 49km at $150/km	7,350.00
10.	Trenching - Crawler backhoe at $125/hr (50 hours)	6,250.00
11.	Vehicle support - $35/day plus $.35/km	4,200.00
12.	Accommodations - 90 man days at $30/man day	2,700.00
13.	Food - 90 man days at $25/man day	2,250.00
14.	Field supplies, instrument rental, & report preparation	3,600.00
15.	Contingency on a 10% basis	6,550.00
		$ 72,081.00

COST ESTIMATES PROGRAM II - (Contingent on the success of Program I)

1.	Diamond drilling - 800 meters at $60/meter	$ 48,000.00
2.	Core logging, supervision, & surveying	5,200.00
3.	Sampling, chip boards, sample storage	3,150.00
4.	Assaying - 100 samples at $25/sample	2,500.00
5.	Helicopter support - 35 hours at $500/hr	17,500.00
6.	Geologist - 10 days at $300/day	3,000.00
7.	Vehicle support - $35/day plus $.35/km	4,200.00
8.	Accommodations - 90 man days at $30/man day	2,700.00
9.	Food - 90 man days at $25/man day	2,250.00
10.	Field supplies, rentals, report preparation & drafting	4,500.00
11.	Contingency on a 10% basis	9,300.00
		$102,300.00

PROPOSED BUDGET (Program I)

1. Geological Surveys, Map & Report Preparation & Related Costs		$ 6,900.00
2. Geophysical Surveys (line-kilometres)		
Ground		
Magnetic	$ 6,125.00	
Electromagnetic	$ 6,125.00	
Induced Polarization	$	
Radiometric	$	
Seismic	$	
Other S.P. Survey	$ 7,350.00	
Airborne	$	
	$ 19,600.00	$ 19,600.00
3. Geochemical Surveys (no. of samples analysed for 2009)		
Soil	$ 1,406.00	
Silt	$	
Rock	$	
Other	$	
	$ 1,406.00	$ 1,406.00
4. Drilling		
Surface _____ m @ $ _____ =	$	
Underground _____ m @ $ _____ =	$	
	$	$
5. Related Technical Surveys		
Sampling/Assaying Geochemical sampling $125./km	$ 6,125.00	
Petrographic	$	
Mineralogic	$	
Metallurgic	$	
	$ 6,125.00	$ 6,125.00
6. Preparatory/Physical		
Line/Grid (kilometres)	$ 12,500.00	
Trenching (metres)	$ 6,250.00	
	$ 18,750.00	$ 18,750.00
7. Tunneling, Drifting, Other Lateral Excavation, Shaft Sinking, (25% of total expenses are eligible)		
_____ m @ $ _____ = $ × 25% =	$	
_____ m @ $ _____ = $ × 25% =	$	
	$	$
8. Other Exploration Costs (attach detailed schedules)		
Vehicle	$ 4,200.00	
Accommodations	$ 2,700.00	
Food	$ 2,250.00	
Field Supplies	$ 3,600.00	
Contingency	$ 6,550.00	
	19,300.00	$ 19,300.00
Total		$ 72,081.00
		$

PROPOSED BUDGET (Program II)

1. Geological Surveys, Map & Report Preparation & Related Costs		$
2. Geophysical Surveys (line-kilometres)		
Ground		
Magnetic	$	
Electromagnetic	$	
Induced Polarization	$	
Radiometric	$	
Seismic	$	
Other	$	
Airborne	$	
	$	$
3. Geochemical Surveys (no. of samples analysed for _____)		
Soil	$	
Silt	$	
Rock	$	
Other	$	
	$	$
4. Drilling		
Surface 800 meters m @ $ 60.00/meter	= $ 48,000.00	
Underground _____ m @ $ _____	= $	
	$ 48,000.00	$ 48,000.00
5. Related Technical Surveys		
Sampling/Assaying	$	
Petrographic	$	
Mineralogic	$	
Metallurgic	$	
	$	$
6. Preparatory/Physical		
Line/Grid (kilometres)	$	
Trenching (metres)	$	
	$	$
7. Tunneling, Drifting, Other Lateral Excavation, Shaft Sinking, (25% of total expenses are eligible)		
_____ m @ $ _____ = $	× 25% =	$
_____ m @ $ _____ = $	× 25% =	$
	$	$
8. Other Exploration Costs (attach detailed schedules)		
See cost estimates for Program II (enclosed)	$ 54,300.00	
	$	
	$	
	$ 54,300.00	$ 54,300.00
Total		$102,300.00
		$

WORK PERFORMED - (Field Notes August 9 - 23, 1986)

Aug. 9: Arrived on the Golden loon I (see appendix E) and traversed to 00W + 00N on the base-line and from there slope corrected and picketed every 50m the 1 km base line.

Aug. 10: Returned to 00W + 00N and flagged grid lines 00W + 300S -300N and 100W + 300S - 300N. Stations are flagged at 20m intervals (see plate no. 1).

Aug. 11: Returned to Golden Loon I and traversed down base-line to 200W + 00N and from there flagged grids 200W + 300S - 300N and 300W + 300S - 300N (see plate no.1).

Aug. 12: Returned to Golden Loon I and traversed down base-line to 400W + 00N and from there flagged grids 200W + 300S - 300N and 300W + 300S - 300N (see plate no. 1).

Aug. 13: Returned to Golden Loon I and traversed down the base-line to 400W + 00N and from there flagged grids 400W + 300S - 300N and 500W + 300S - 300N. Lines are pulling due to excessive magnitite (see plate no. 1).

Aug. 14: Returned to Golden Loon I and traversed down the base-line to 600W + 300S - 300N, 700W + 300S - 300N, and 800W + 300S - 300N (see plate no. 1). Lines are again influnced by magnetite.

Aug. 15: Returned to Golden Loon I and traversed up the base-line to 900W + 00N and flagged grid lines 900W + 300S - 300N and 1000W + 300S - 300N (see plate no. 1). Also traversed tie-lines 300N + 00W - 1000W and 300S + 00W - 1000W.

Aug. 16: Returned to the Golden Loon I and traversed down the base-line and geochemed lines 00W, 100W, 200W, and 300W. Samples were taken in a very weak "B" horizen consisting mostly of a tuffacious greenish-grey clay (see plate no. 1).

Aug. 17: Returned to the Golden Loon I and traversed down the base-line and geochened lines 400W, 500W, 600W, and 700W (see plate no. 1). Soils are still tuffacious.

Aug. 18: Returned to the Golden Loon I and traversed up the base-line and finished the geochem survey. Lines 800W, 900W and 1000W (see plate no. 1).

WORK PERFORMED - (con't)

Aug. 20: Arrived back at the Golden Loon I and commenced a magnetometer survey of lines 00W, 100W, 200W, 300W, and 500W (see plate no. 2). Using a Scintrex, MF-2, serial no. 02110.

Aug. 21: Returned to the Golden Loon I and completed the magnetometer survey. Lines 600W, 700W 800W, 900W and 1000W (see plate no. 2).

Aug. 22: Returned to the Golden Loon I and commenced a V.L.F.-E. m. survey on lines 00W, 100W, 200W, 300W, 400W and 500W. Using a Sabre, Mod. 27, Ser. No. 274 (see plate no. 2).

Aug. 23: Returned to the Golden Loon I and finished the V.L.F.-E.M. survey lines 600W, 700W, 800W, 900W and 1000W. (see plate no. 2).

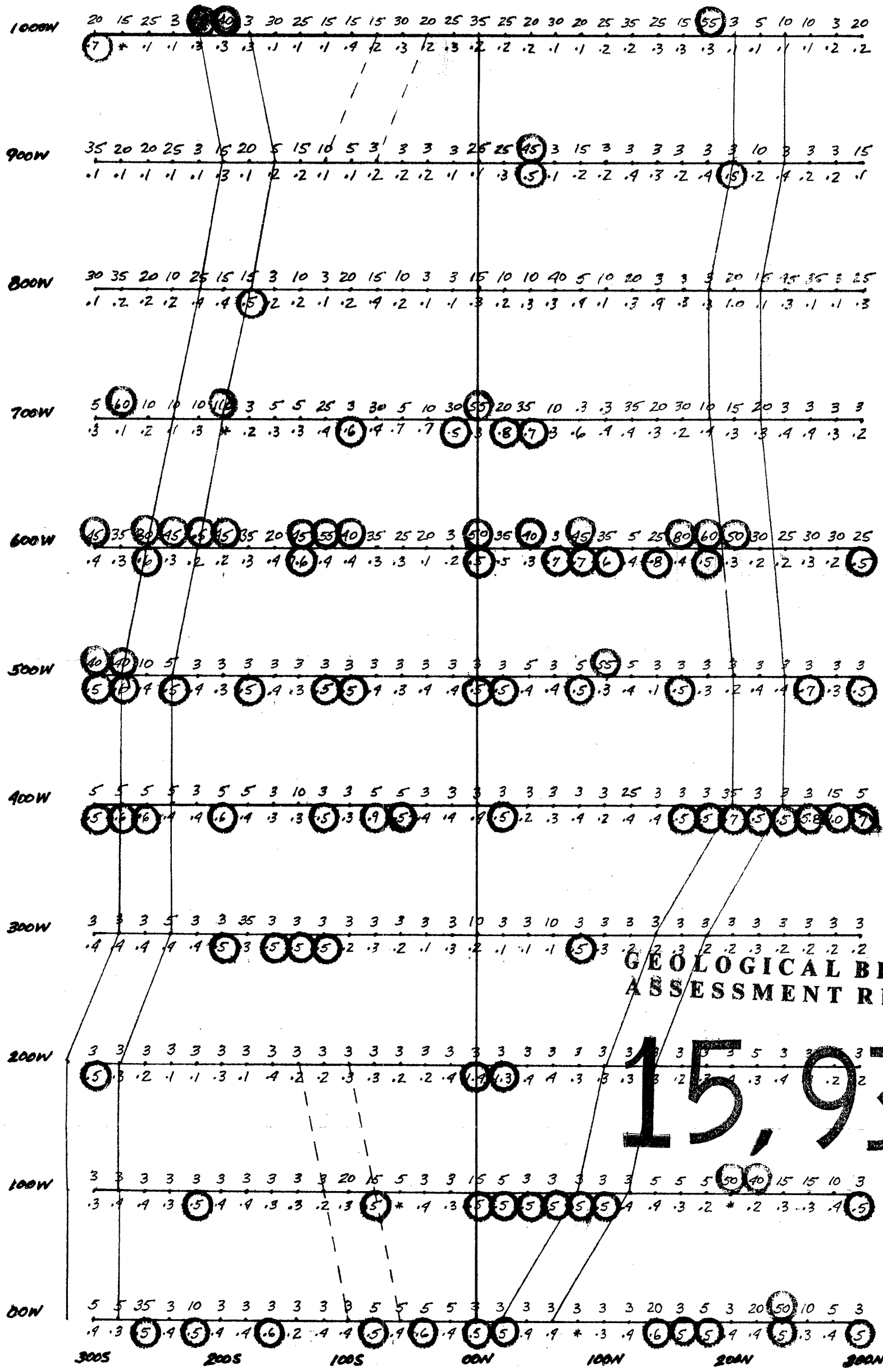
20 Au
.7 Ag

GEOCHEMICAL RESULTS

0 100 METERS

SCALE 3cm = 100 meters

N



40 P.P.B > Au considered anomalous values

.5 P.P.M. > Ag considered anomalous values

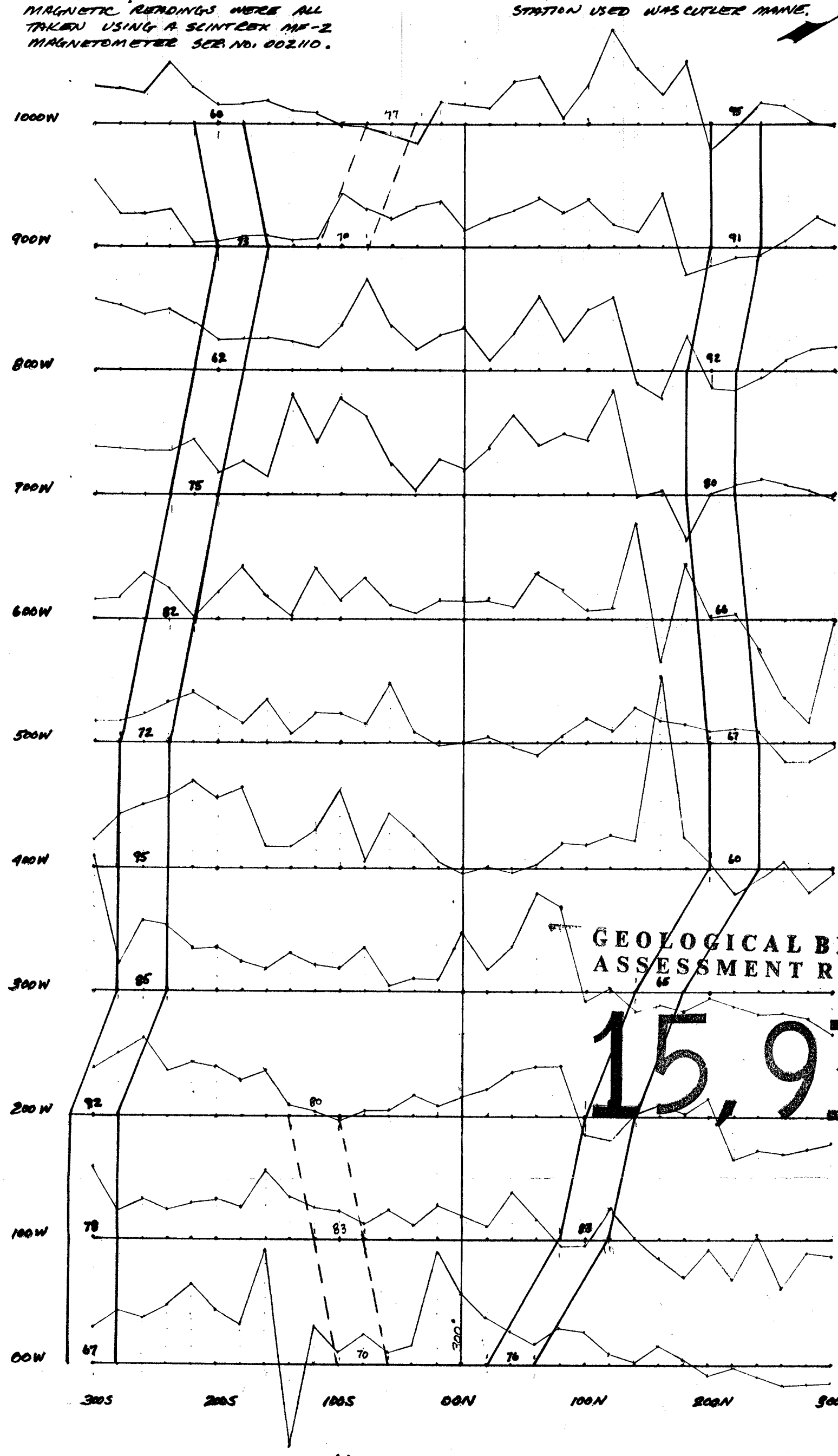
GOLDEN LOON I-II-III-IV-VII
PLATE NO. 1
GEOCHEMICAL SURVEY
92 P/8

AUGUST - 1986
KAMLOOPS MINING DIVISION
DRAWN BY: L.A.L.
SCALE: 3cm = 100m

ALL VALUES REPRESENT TOTAL VERTICAL COMPONENT IN GAMMA'S CORRECTED FOR DIURNAL VARIATIONS USING A CLOSED-LOOP MAGNETOMETER BASE SYSTEM. CORRECTIONS WERE ALSO MADE FOR TIME/STATION VARIATIONS. MAGNETIC READINGS WERE ALL TAKEN USING A SCINTREX MF-2 MAGNETOMETER SER. NO. 002110.

ALL VLF-EM DATA WAS TAKEN USING A SABRE MOD. 27 SER. NO. 274 AND CONDUCTIVE ZONES WERE PLOTTED BY FIRST FRAZER FILTERING TILT ANGLES AND PROFILING. THE STATION USED WAS CUTLER MAINE.

300°



GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,937

VLF-EM ANOMALIES & MAX. FIELD STRENGTH } 90

SCALE
0 M 100 METERS

GOLDEN LOON I-II-III-IV-VII
PLATE NO. 2
MAGNETOMETER & VLF-EM SURVEY
92P/8

AUGUST 1986
KAMLOOPS MINING DIVISION
DRAWN BY: L.D.L.
INSTRUMENTS: SCINTREX MF-2 #2110 & SABRE MOD 27 #274

0 100 metres

SCALE 3cm = 100 metres

N

1000W 0%

900W 6%

800W 23%

700W 30%

600W 60%

500W 80%

400W 86%

300W 37%

200W 20%

100W 66%

00W 80%

300S 200S 100S 00N 100N 200N 300N

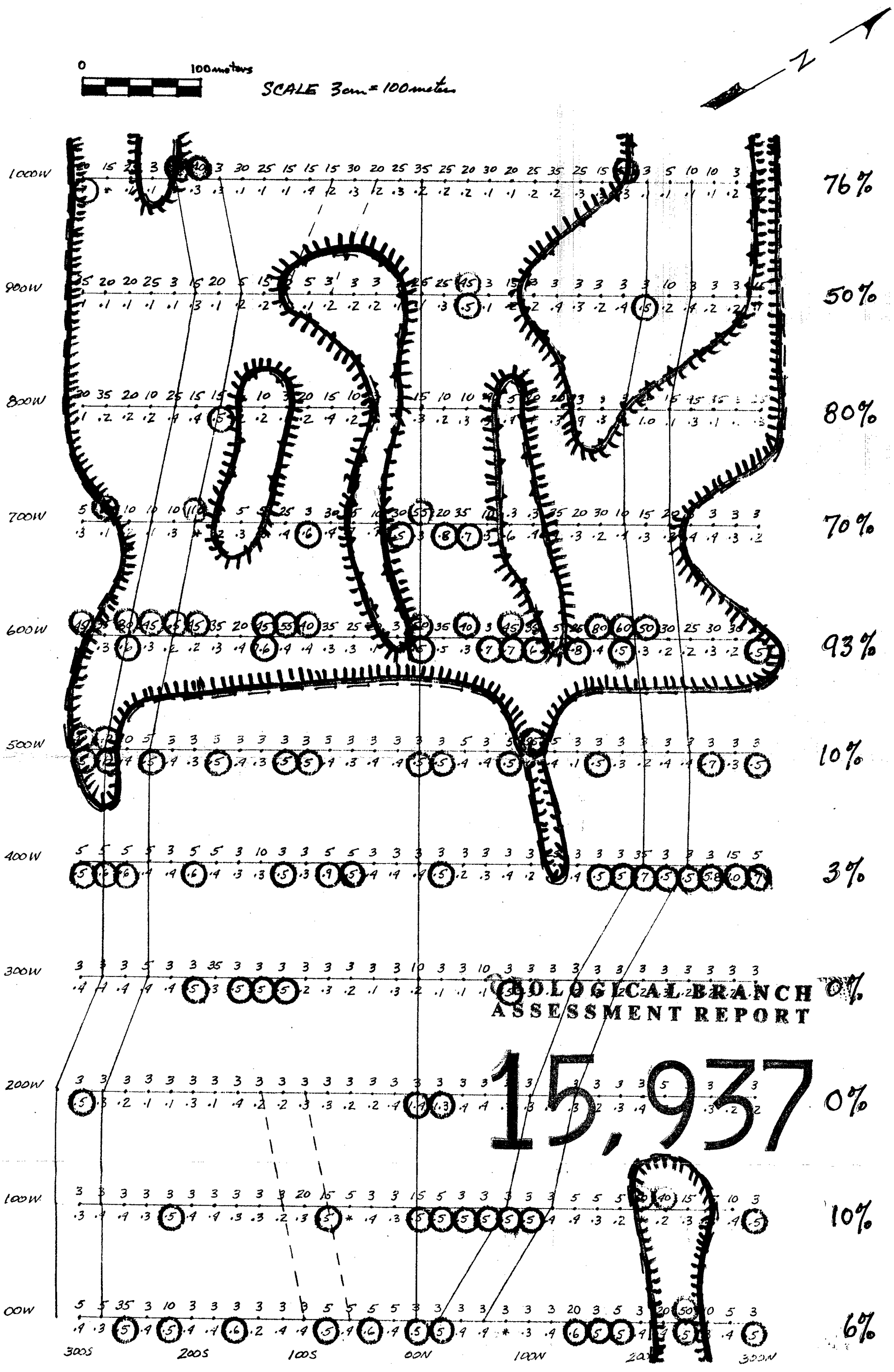
20% = PERCENT OF ANOMALIES ON GRID LINE

= INSIDE PERIMETER OF ANOMALY-Ag

.5 P.P.M = Ag ANOMALIES

BARNES CREEK MINERALS CORPORATION
GEOCHEMICAL ANOMALIES Ag
GOLDEN LOONS CLAIM GROUP
92P/8 - PLATE NO. 3

AUGUST - 1986
KAMLOOPS MINING DIVISION
DRAWN BY: L.D.L.
SCALE: 3cm = 100 metres



10% = PERCENT OF ANOMALIES ON GRID LINE

= INSIDE PERIMETER OF ANOMALY-Au

40 P.P.B = Au ANOMALIES

BARNES CREEK MINERALS CORPORATION
GEOCHEMICAL ANOMALIES Au
GOLDEN LOONS CLAIM GROUP
92P/8 - PLATE NO. 4

AUGUST - 1986
KAMLOOPS MINING DIVISION
DRAWN BY: L.D.L.
SCALE: 3cm = 100 M

STATEMENT OF EXPENDITURES FOR PHYSICAL WORK
on the
GOLDEN LOONS I - II - III - IV - VII
August 9 - August 15, 1986

LABOUR

L. D. Lutjen 7 days at $ 150/day	$ 1,050.00
R. D. Lodmell 7 days at $ 150/day	1,050.00

EXPENSES

Truck Rental (948km) at $.45/km	426.00
Food and Accommodations 14 man days at $ 45/day	630.00
Field Supplies (Flagging, Topofoil, Marker pens, Teflon tags etc.)	223.00
TOTAL	$ 3,379.00

STATEMENT OF EXPENDITURES FOR GEOCHEMICAL AND CEOPHYSICAL WORK
on the
GOLDEN LOONS I - II - III - IV - VII
August 16 - August 23, 1986

LABOUR

L. D. Lutjen 7 days at $ a50/day	$ 1,050.00
R. D. Lodmell 7 days at $ 150/day	1,050.00

EXPENSES

Assays (soil samples, rock samples, etc.)	3,726.00
Truck Rental (812km) at $.45/km	365.00
Food and Accommodations 14 man days at $ 45/day	630.00
Field Supplies (Flagging, Topofoil, Marker pens, Teflon tags etc.)	98.00
Mag Rental $ 140/week	140.00
VLF EM Rental $ 125/week	125.00

REPORT PREPARATION

2 Man days at $ 150/day	300.00
Typing, stationary, reproduction, etc	185.00
TOTAL	$ 7,669.00

Qualifications

I Larry D. Lutjen of R.R. 1, Box 12, Chase, B.C. V0E 1M0 phone 679-8022, having graduated from the College of San Mateo, U.S.A. in 1965 (Degree in Electronics) have the following prospecting and related experience:

1958-1962 Surface and underground mining on the Hard Quartz mineral claim, Adin Mt. California (drilling, blasting, timbering, highgrading)

1963-1969 Prospecting with John Harden on the Warner Range (California), Lovelock Plateau (Nevada), and Shaffer Mountain (California) for Au, Ag, Hg, W, Mo, Cu, Zn, & Pb. Staked several claims in California and Nevada.

1972-1976 Geophysical prospecting with Frank Hall in the Scotch Creek area (British Columbia). Optioned several claims, Silver King, Silver Queen etc., (used horizontal & vertical loops at 1600 c.p.s., Sharpe SE 600 and self potential surveys)

1977-1980 Geophysical & geochemical prospecting in the Shuswap Lake and Adams Plateau area. (McPhar 800 magnetometer). Geophysically prospected the Lost Cabin Mine on Adin Mt., California for Lorcan Resources Ltd., resulting in a ten year option.

1981-1982 Geophysical & geochemical prospecting with J. A. Lutjen and R. D. Lodmell in the south central region of B.C. (McPhar 800 and S.P.). Staked 12 properties from Beaverdell to the Adams Plateau. Optioned Au-1 & Au-2 in Monashee Pass to Tylox Resources Ltd.

1982-1983 Received my geophysical certification from Malaspina College. Did a geophysical survey on Ground Hog Basin for Aurun Minerals Ltd. (Geonics 816-G Proton Mag. and EM-16 VLF-EM), including geochemical sampling, geophysical mapping and grid layout. Geochemical sampling and geological mapping for Tylox Resources Ltd. on the Au-1 & Au-2 claims in the Monashee Pass, B.C.

1983-1984 Geophysical survey on the Golden Eagle claims for MacKenzie Range Gold Inc.,including mapping and interpretation. (Scintres MF-2 Magnetometer, Sabre Model 27 VLF-EM, and S.P.). Geophysical and geochemical survey on the Golden Quartz 1-12 on Adin Mt. for MacKenzie Range Gold Inc. (Scintrex MF-2 and Sabre Madel 27 VLF-EM).

1984-1985 Geophysical and geological surveys (80km) for Barnes Creek Minerals Corp., including mapping, profiles, contours and interpretation (Scintrex MF-2 Magnetometer, Sabre Model 27 VLF-EM and S.P.). Assessment report on the Otto claims (geophysical) on the Adams Plateau for M. Riley. Geochemical & geophysical survey (30km) for Noranda Exploration Ltd. on their Birk Creek Project. Geochemical and Geophysical survey (10km) for Noranda Exploration Ltd. on their London Ridge Project.

1985-1986 Geochemical and geophysical survey (20km) for Barnes Creek Minerals Corp. on their Golden Loon claim. Geochemical and geophysical survey (30km) for Lacana Mining Corporation on their Comstock property on the Adams Plateau. Assessment reports of the Golden Eagle I & II, Golden Loons I - IX, and Silver Weasel I & II for Barnes Creek Minerals Corporation.

Larry D. Lutjen
Certified Geophysical Prospector

MALASPINA COLLEGE

Statement of Course Completion

LARRY D. LUTJEN

has

Successfully Completed 180 Hours of Instruction

in

MINERAL EXPLORATION FOR PROSPECTORS

PRESENTED BY B.C. MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES
B.C. MINISTRY OF EDUCATION

APRIL 16 to 30, 1983 - MESACHIE LAKE, B.C.

MAY 2, 1983

Dated at Nanaimo,
British Columbia, Canada

Director / Dean

Registrar

Instructor

Malaspina College

AUTHORS QUALIFICATIONS

I Richard D. Lodmell of Box 1192, Kamloops, B.C. V2C 6H3 phone 376-2473 have the following prospecting and related experience:

1972 Trenching and diamond drillers helper on northern Vancouver Island for Giant Explorations

1973 Drilling, blasting and highgrading ore on the Lucky Coon claims on the Adams Plateau, B.C.

1974 Drilling and blasting in central and northern B.C. for R.F. Welch Ltd.

1975 Geochemical surveys for Craigmont Mines in the Shuswap Lake area of B.C.

1976-1978 Seismic work throughout Alberta for Century Geophysical Corp.

1979-1982 Prospected the Sooke area on Vancouver Island. Prospected the Pitt Lake area of B.C. and staked a mineral claim. Prospectedthe Kootnay area of B.C. and staked a mineral claim which was optioned to Albury Resources. I.P. line cutting in the Ymir area for Pearson -Gallagher, Shell Oil. Geophysical and geochemical prospecting with L.D. and J.A. Iutjen in the south central region of B.C.(McPhar 800 and S.P.) Staked 12 properties from Beaverdell to the Adams Plateau.

1982-1983 Recieved my geophysical certification from Malaspina College. Did a geophysical survey on Ground Hog Basin for Aurun Minerals Ltd. (Geonics 816-G Proton Mag. and EM-16 VLF-EM), including geochemical sampling, geophysical mapping and grid layout. Geochemical sampling and geological mapping for Tylox Resources Ltd. on the AU 1&2 claims in the Monashee Pass, B.C.

1983-1984 Geophysical survey on the Golden Eagle claims for MacKenzie Range Gold Inc., including mapping and interpretation. (Scintrex MF-2 Magnetometer, Sabre Model 27 VLF-EM, and S.P.). Geophysical and geochemical survey on the Golden Quartz 1-12 on Adin Mt. for MacKenzie Range Gold Inc. (Scintrex MF-2 and Sabre Model 27 VLF-EM).

1984-1985 Geophysical and geological surveys and assessment reports on the Golden Loons I to IV (80 units), Golden Goose (20 units), Golden Mallard (20 units) and the Golden Jack (20 units) for Barnes Creek Minerals Corp., including mapping, profiles, contours and interpretation (Scintrex MF-2 Magnetometer, Sabre Model 27 VLF-EM and S.P.). Assessment report on the Otto claims (geophysical) on the Adams Plateau for M. Riley. Assessment report on the Alina 1 for Alina Resources Ltd.(Scintrex MF-2 magnetometer).

Richard Lodmell
Certified Geophysical Prospector

MALASPINA COLLEGE

Statement of Course Completion

RICHARD LODMELL

has

Successfully Completed 180 Hours of Instruction

in

MINERAL EXPLORATION FOR PROSPECTORS

PRESENTED BY B.C. MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES
B.C. MINISTRY OF EDUCATION

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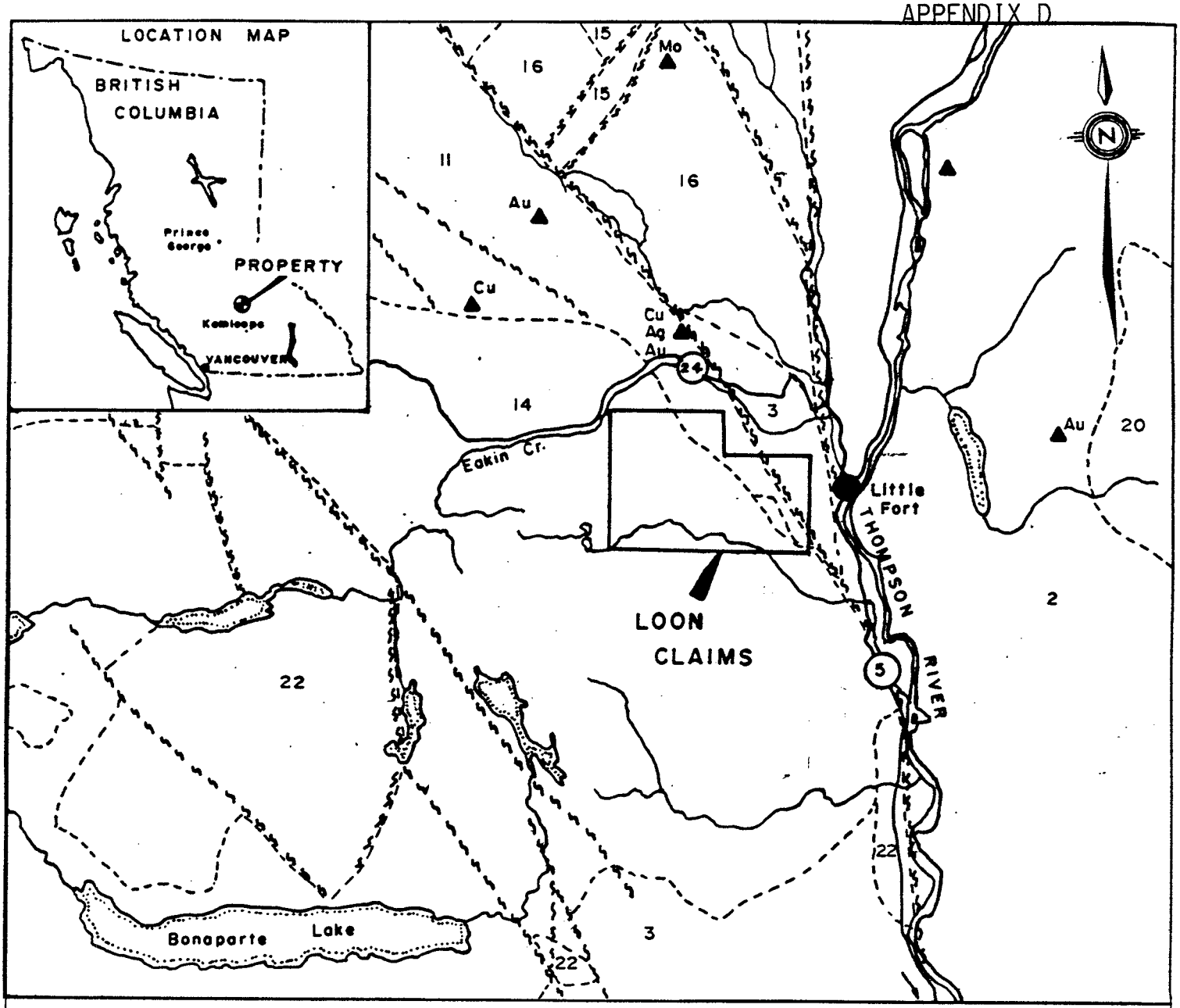


LEGEND

22	SKULL HILL FORMATION (TERTIARY) Felsic to intermediate volcanics.
20	RAFT AND BALDY BATHOLITHS (Cretaceous) Granitic intrusives.
16	INTERMEDIATE VOLCANICS WITH SEDIMENTS (JURASSIC)
14	THUYA BATHOLITH (TRIASSIC/JURASSIC) Granodioritic intrusive.
11	NICOLA GROUP (TRIASSIC) Intermediate volcanics with sediments.
9	ULTRAMAFIC INTRUSIVES (EARLY MESOZOIC)
3	EAGLE BAY (LATE PALEOZOIC) Mixed volcanics and sediments.
2	FENNEL FORMATION (MISSISSIPPIAN) Mixed basic volcanics and sediments.

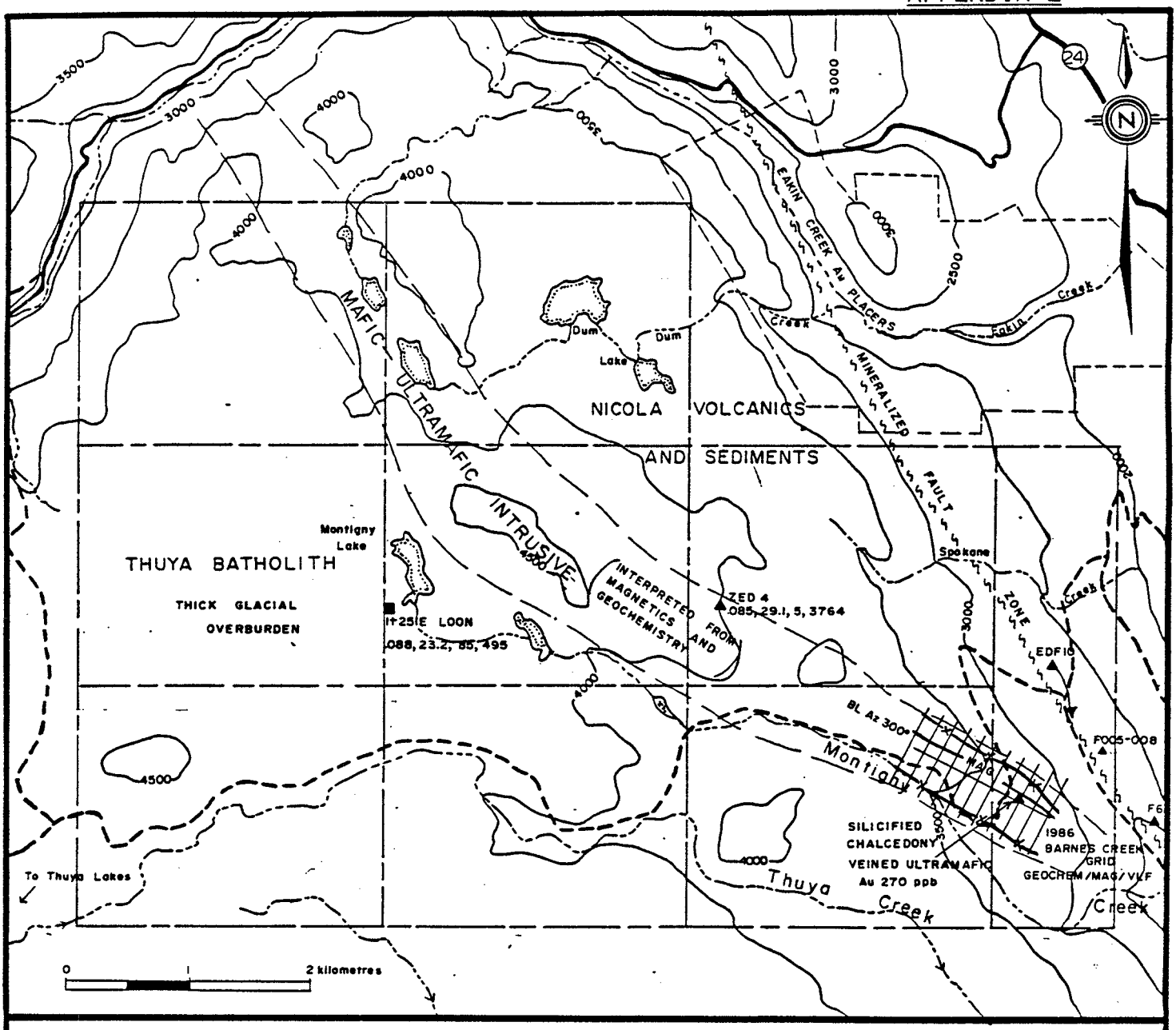
5 0 5 10 Kilometres

Mineral occurances

Major faults

REGIONAL GEOLOGY MAP
GOLDEN LOON PROPERTY
LITTLE FORT AREA
KAMLOOPS M.D., B.C.

DRAWN BY K.G.	N.T.S. 92-P-8
Feb. 1987	FIG. 1.



LEGEND

GEOCHEMISTRY

■ ▲ 08, 23, 85, 495 — Sample location Au.oz/T, Ag, Cu, Pb (ppm).

■ ▲ F006 — Sample location (See Table I for values)

GEOPHYSICS BARNES CREEK 1986 GRID

—X—X—X— VLF Anomaly (Fraser Filtered) 1986

—MAG— Magnetic Anomaly Axis 1986

GEOLOGY

– – – – Interpreted geological contact

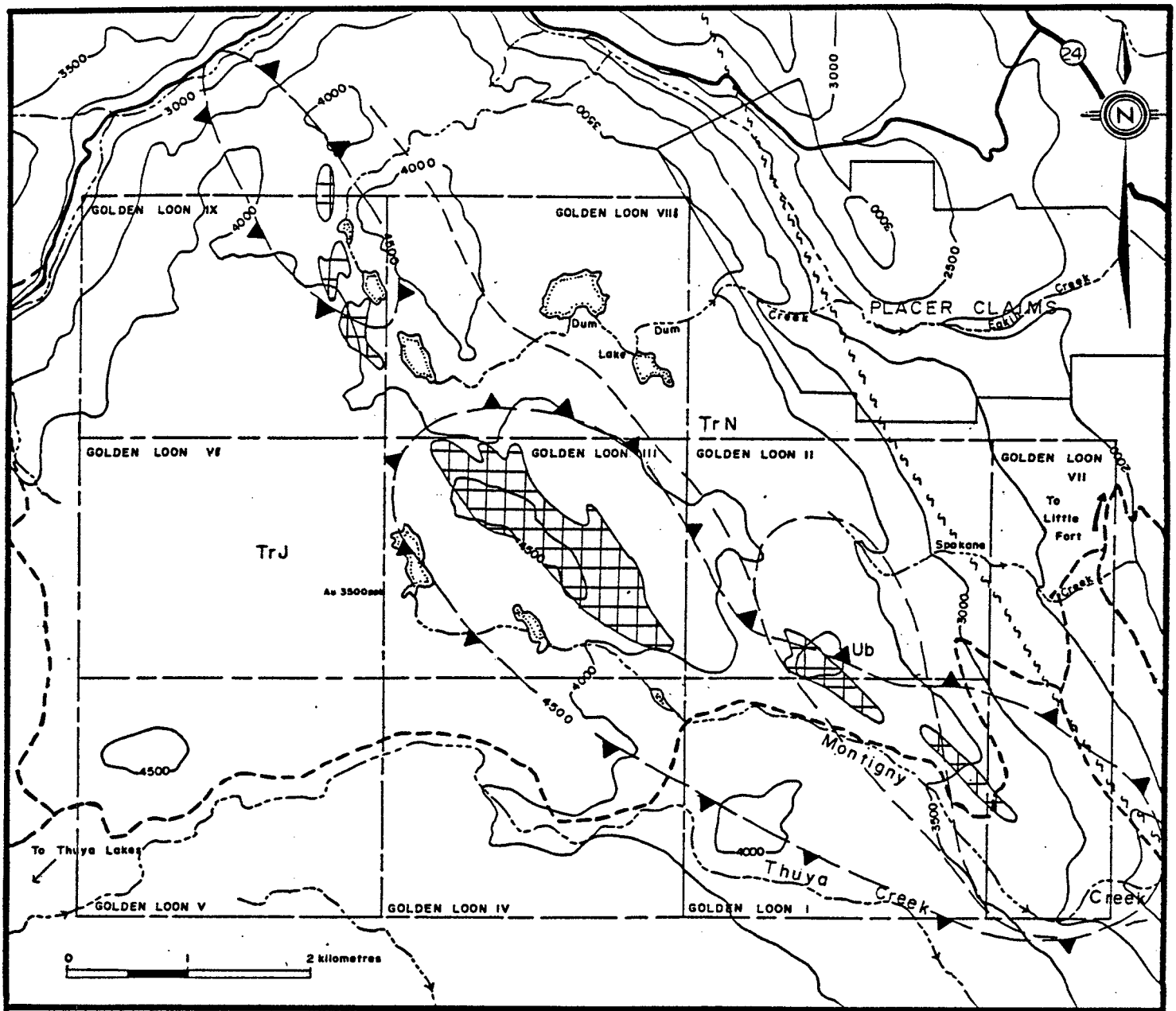
~ ~ ~ LOON VII fault zone

GOLDEN LOON PROPERTY

DATA INTERPRETATION

LITTLE FORT AREA, KAMLOOPS M.D.

Drawn by K.G.	N.T.S. 92-P-8
Feb. 1987	Fig. 5



LEGEND

Airborne magnetic anomaly. 4500 gamma isomagnetic contour.
(Chu Chua sheet GSC series 5224 G)

Nickel in soils anomalies (Ni >100 p.p.m.)
From NORANDA (1967) Report # 1055

TrJ — Thuya Batholith (Triassic, Jurassic). Granodiorite.

TrN — Predominantly Nicola Group (Triassic) Volcanics and Sediments.

Ub — Ultramafic Intrusive (Permian/Triassic) Serpentine.

LOON VII Fault.

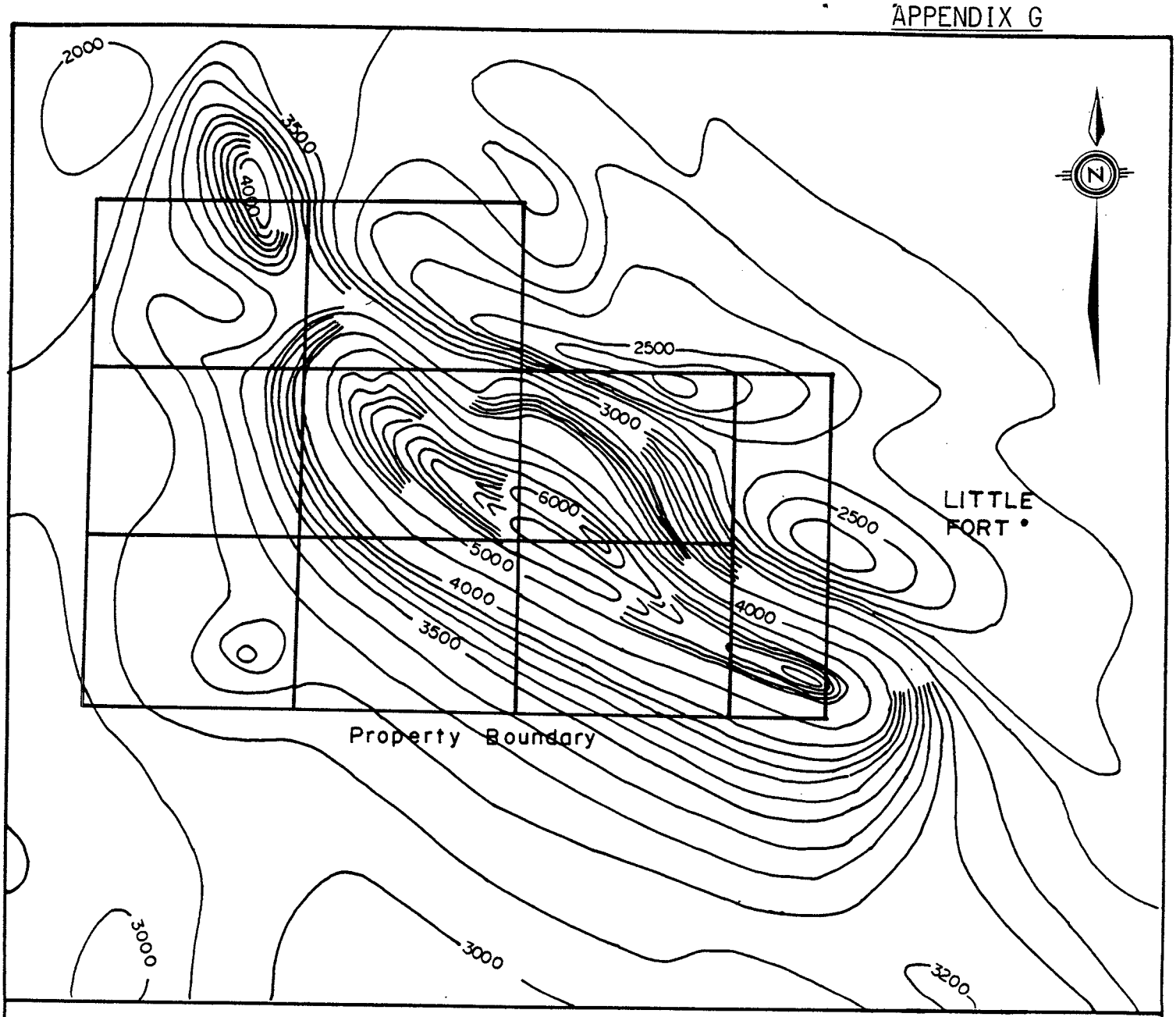
Geology after Campbell and Tipper (1971)
Unchanged

GOLDEN LOON PROPERTY

DATA COMPILATION I

LITTLE FORT AREA, KAMLOOPS M.D.

Drawn by K.G.	N.T.S. 92-P-8
Feb. 1987	Fig. 2



LEGEND

3000

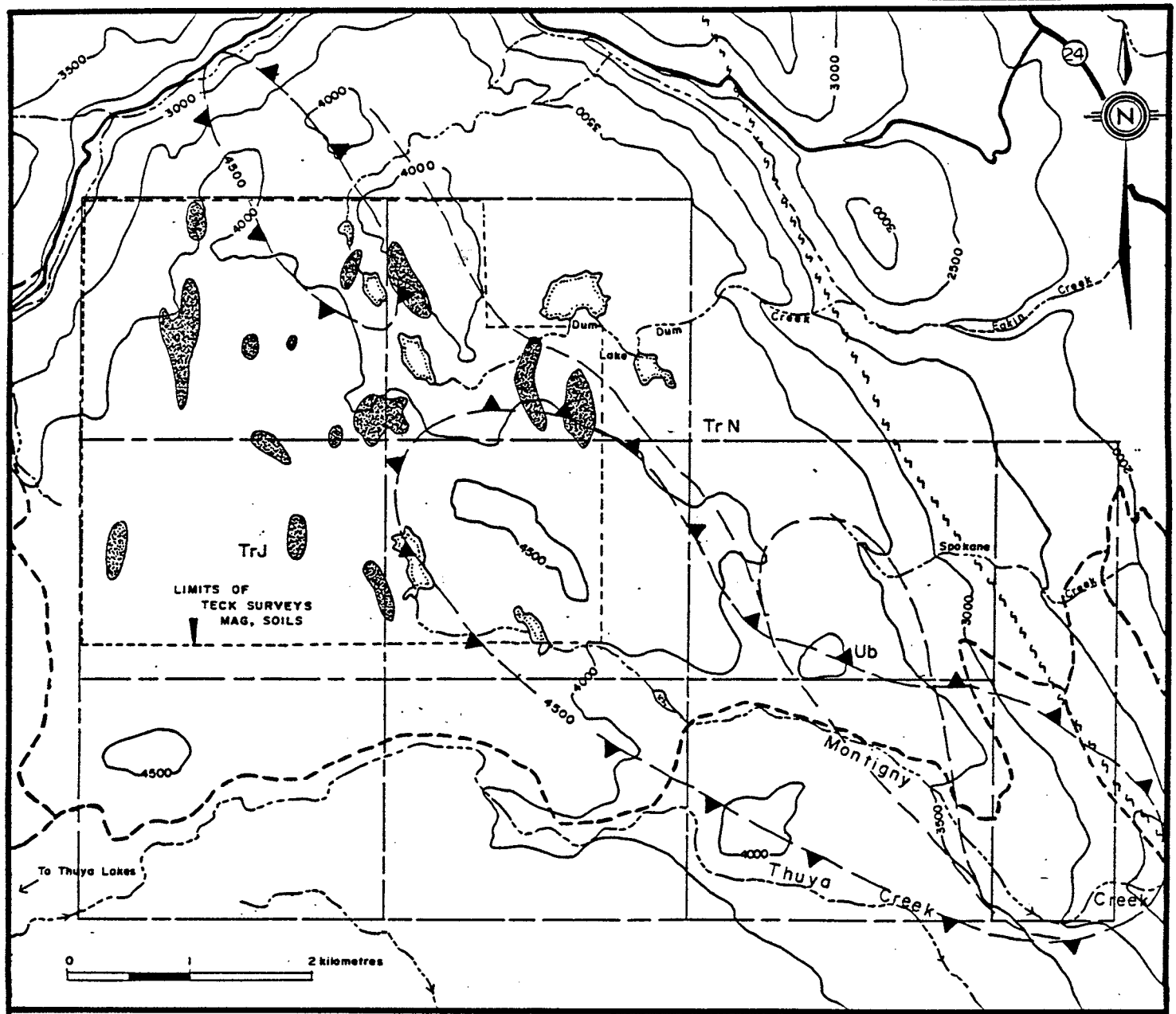
Magnetic contours in gammas.

From Chu Chua Sheet. GSC Series 5224 G

0 1 2 3 Km

REGIONAL MAGNETIC MAP
GOLDEN LOON PROPERTY
LITTLE FORT AREA
KAMLOOPS M.D., B.C.

DRAWN BY K.G.	N.T.S. 92-P-8
Feb. 1987	FIG. 4



LEGEND

Airborne magnetic anomaly. 4500 gamma isomagnetic contour.
(Chu Chua sheet GSC series 5224 G)

Coincident Cu (> 100 ppm) Ag (> 1.5 ppm) in soil anomalies.
From TECK CORPORATION (1981) REPORT # 9061

TrJ — Thuya Batholith (Triassic, Jurassic). Granodiorite.

TrN — Predominantly Nicola Group (Triassic) Volcanics and Sediments.

Ub — Ultramafic Intrusive (Permian/Triassic) Serpentine.

LOON VII Fault.

Geology after Campbell and Tipper (1971)
Unchanged

GOLDEN LOON PROPERTY

DATA COMPILATION 2

LITTLE FORT AREA, KAMLOOPS M.D.

Drawn by K.G.	N.T.S. 92-P-8
Feb. 1987	Fig. 3

Eco-Tech LABORATORIES LTD.

APPENDIX I
ENVIRONMENTAL TESTING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ASSAYING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393

September 24,1986
Reissue

CERTIFICATE OF ANALYSIS ETK 86-157

SAMPLE IDENTIFICATION: 312 soil and 3 rock samples received August 18, 1986 (Barnes Creek Project)

ET#	Description	Au (ppb)	Ag (ppm)	As (ppm)
157-1	00W + 00N	<5	0.5	<1
2	20	<5	0.5	<1
3	40	<5	0.4	<1
4	60	<5	0.4	<1
5	80	<5	*	*
157-6	00W + 100N	<5	0.3	<1
7	120	<5	0.4	<1
8	140	20	0.6	<1
9	160	<5	0.5	<1
10	180	5	0.5	<1
157-11	00W + 200N	<5	0.4	<1
12	220	20	0.4	<1
13	240	50	0.5	<1
14	260	10	0.3	<1
15	280	5	0.4	<1
157-16	00W + 300N	<5	0.5	<1
17	20S	5	0.4	<1
18	40	5	0.6	<1
19	60	5	0.4	<1
20	80	5	0.5	<1

Thomas J. Fletcher, Chief Assayer

APPENDIX I
September 24, 1986
Reissue

ET#	Description	Au (ppb)	Ag (ppm)	As (ppm)
157-21	00W + 100S	<5	0.4	<1
22	120	<5	0.4	<1
23	140	<5	0.2	<1
24	160	<5	0.6	<1
25	180	<5	0.4	<1
157-26	00W + 200S	<5	0.4	<1
27	220	10	0.5	<1
28	240	<5	0.4	<1
29	260	35	0.5	<1
30	280	5	0.3	<1
157-31	00W + 300S	5	0.4	<1
157-32	100W + 00N	15	0.5	<1
33	20	5	0.5	<1
34	40	<5	0.5	<1
35	60	<5	0.5	<!
157-36	100W + 80N	<5	0.5	<1
37	100	<5	0.5	<1
38	120	<5	0.4	<1
39	140	5	0.4	<1
40	160	5	0.3	3
157-41	100W + 180N	5	0.2	<1
42	200	50	*	<1
43	220	40	0.2	<1
44	240	15	0.3	<1
45	260	15	0.3	<1
157-46	100W + 280N	10	0.4	<1
47	300	<5	0.5	<1
157-48	100W + 20S	<5	0.3	<1
49	40	<5	0.4	<1
50	60	5	*	<1
157-51	100W + 80S	15	0.5	3
52	100	20	0.3	<1
53	120	<5	0.2	<1
54	140	<5	0.3	<1
55	160	<5	0.3	<1

Thomas J. Fletcher, Chief Assayer

APPENDIX I

September 24, 1986
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ET#	Description	Au (ppb)	Ag (ppm)	As (ppm)
157-56	100W + 180S	<5	0.4	<1
57	200	<5	0.4	<1
58	220	<5	0.5	<1
59	240	<5	0.3	1
60	260	<5	0.4	1
157-61	100W + 280S	<5	0.4	2
62	300	<5	0.3	<1
157-63	200W + 00N	<5	1.4	*
64	20	<5	1.3	25
65	40	<5	0.4	3
157-66	200W + 60N	<5	0.4	1
67	80	<5	0.3	2
68	100	<5	0.3	<1
69	120	<5	0.3	<1
70	140	<5	0.3	1
157-71	200W + 160N	<5	0.2	<1
72	180	<5	0.3	1
73	200	<5	0.4	<1
74	220	5	0.3	<1
75	240	<5	0.4	<1
157-76	200W + 260N	<5	0.3	<1
77	280	5	0.2	<1
78	300	<5	0.2	<1
157-79	200W + 20S	<5	0.4	4
80	40	<5	0.2	<1
157-81	200W + 60S	<5	0.2	<1
82	80	<5	0.3	<1
83	120	<5	0.3	<1
84	140	<5	0.2	<1
85	160	<5	0.2	3
157-86	200W + 180S	<5	0.4	5
87	200	<5	0.1	<1
88	220	<5	0.3	<1
89	240	<5	0.1	2
90	260	<5	0.2	<1

Thomas J. Fletcher, Chief Assayer

APPENDIX I

September 24, 1986
Reissue

ET#	Description	Au (ppb)	Ag (ppm)	As (ppm)
157-91	200W + 280S	<5	0.3	<1
92	300	<5	0.5	<1
157-93	300W + 00N	10	0.2	<1
94	20	<5	0.1	<1
95	40	<5	0.1	<1
157-96	300W + 60N	10	0.1	3
97	80	<5	0.5	<1
98	100	<5	0.3	<1
99	120	<5	0.2	<1
100	140	<5	0.2	<1
157-101	300W + 160N	<5	0.3	<1
102	180	<5	0.2	<1
103	200	<5	0.2	<1
104	220	<5	0.3	<1
105	240	<5	0.2	<1
157-106	300W + 260N	<5	0.2	3
107	280	<5	0.2	<1
108	300	<5	0.2	2
157-109	300W + 20S	<5	0.3	2
110	40	<5	0.1	2
157-111	300W + 60S	<5	0.2	<1
112	80	<5	0.3	<1
113	100	<5	0.2	<1
114	120	<5	0.5	<1
115	140	<5	0.5	<1
157-116	300W + 160S	<5	0.5	<1
117	180	35	0.3	<1
118	200	<5	0.5	<1
119	220	<5	0.4	<1
120	240	5	0.4	<1
157-121	300W + 260S	<5	0.4	<1
122	280	<5	0.4	<1
123	300	<5	0.4	<1

Thomas J. Fletcher, Chief Assayer

APPENDIX I
September 24, 1986
Reissue

ET#	Description	Au (ppb)	Ag (ppm)	As (ppm)
157-124	400W + 00N	<5	0.4	<1
125	20	<5	0.5	<1
157-126	400W + 40N	<5	0.2	<1
127	60	<5	0.3	<1
128	80	<5	0.4	<1
129	100	<5	0.2	<1
130	120	25	0.4	<1
157-131	400W + 140N	<5	0.4	<1
132	160	<5	0.5	<1
133	180	<5	0.5	<1
134	200	35	0.7	<1
135	220	<5	0.5	<1
157-136	400W + 240N	<5	0.5	<1
137	260	<5	5.8	<1
138	280	15	1.0	<1
139	300	5	0.7	<1
157-140	400W + 20S	<5	0.4	<1
141	40	<5	0.4	<1
142	60	5	0.5	<1
143	80	5	0.9	<1
144	100	<5	0.3	<1
157-145	400W + 120S	<5	0.5	<1
146	140	10	0.3	<1
147	160	<5	0.3	<1
148	180	5	0.4	<1
149	200	5	0.6	2
157-150	400W + 220S	<5	0.4	<1
151	240	5	0.4	2
152	260	5	0.6	<1
153	280	5	0.6	<1
154	300	5	0.5	2
157-155	480W + 00S	5	0.3	2

Thomas J. Fletcher, Chief Assayer

APPENDIX I
September 24, 1986
Reissue

ET#	Description	Au (ppb)	Ag (ppm)	As (ppm)
157-156	500W + 00N	<5	0.5	4
157	20	<5	0.5	6
158	40	5	0.4	2
159	60	<5	0.4	2
160	80	5	0.5	2
157-161	500W + 100N	55	0.3	<1
162	120	5	0.4	<1
163	140	<5	0.1	<1
164	160	<5	0.5	<1
165	180	<5	0.3	2
157-166	500W + 200N	<5	0.2	<1
167	220	<5	0.4	<1
168	240	<5	0.4	<1
169	260	<5	0.7	<1
170	280	<5	0.3	<1
157-171	500W + 300N	<5	0.5	<1
157-172	500W + 20S	<5	0.4	4
173	40	<5	0.4	2
174	60	<5	0.3	<1
175	80	<5	0.4	2
157-176	500W + 100S	<5	0.5	6
177	120	<5	0.5	4
178	140	<5	0.3	2
179	160	<5	0.4	<1
180	180	<5	0.5	<1
157-181	500W + 200S	<5	0.3	<1
182	220	<5	0.4	4
183	240	5	0.5	4
184	260	10	0.4	2
185	280	40	0.6	2
157-186	500W + 300S	40	0.5	<1
157-187	600W + 00N	50	0.5	<1
188	20	35	0.5	3
189	40	40	0.3	<1
190	60	<5	0.7	4

Thomas J. Fletcher, Chief Assayer

APPENDIX I

September 24, 1986
Reissue

ET#	Description	Au (ppb)	Ag (ppm)	As (ppm)
157-191	600W + 80N	45	0.7	10
192	100	35	0.6	8
193	120	5	0.4	<1
194	140	25	0.8	<1
195	160	80	0.4	7
157-196	600W + 180N	60	0.5	4
197	200	50	0.3	<1
198	220	30	0.2	<1
199	240	25	0.2	<1
200	260	30	0.3	<1
157-201	600W + 280N	30	0.2	<1
202	300	25	0.5	<1
157-203	600W + 20S	<5	0.2	<1
204	40	20	0.1	<1
205	60	25	0.3	<1
157-206	600W + 80S	35	0.3	<1
207	100	40	0.4	<1
208	120	55	0.4	<1
209	140	45	1.6	<1
210	160	20	0.4	<1
157-211	600W + 180S	35	0.3	<1
212	200	45	0.2	<1
213	220	65	0.2	<1
214	240	45	0.3	<1
215	260	80	0.6	<1
157-216	600W + 280S	35	0.3	<1
217	300	45	0.4	21
157-218	700W + 00N	55	0.3	<1
219	40	20	0.8	<1
220	60	5	0.7	<1
157-221	700W + 20S	30	0.5	<1
222	80	30	0.4	<1
223	100	<5	0.6	<1
224	120	25	0.4	<1
225	140	5	0.3	<1

Thomas J. Fletcher, Chief Assayer

APPENDIX I

September 24, 1986
Reissue

ET#	Description	Au (ppb)	Ag (ppm)	As (ppm)
157-226	700W + 160S	5	0.3	<1
227	180	<5	0.2	<1
228	200	20	*	*
229	220	10	0.3	<1
230	240	10	0.1	<1
157-231	700W + 260S	10	0.2	<1
232	280	60	0.1	<1
233	300	5	0.3	<1
157-234	800W + 00N	15	0.3	<1
157-235	800W + 20S	<5	0.1	<1
236	40	<5	0.1	<1
237	60	10	0.2	<1
238	80	15	0.4	<1
239	100	20	0.2	<1
157-240	800W + 120S	<5	0.1	<1
241	140	10	0.2	<1
242	160	<5	0.2	<1
243	180	15	0.5	<1
244	200	15	0.4	<1
157-245	800W + 220S	25	0.4	<1
246	240	10	0.2	<1
247	260	20	0.2	<1
248	280	35	0.2	<1
249	300	30	0.1	<1
157-250	900W + 00N	25	0.1	<1
251	20	25	0.3	<1
252	40	45	0.5	3
253	60	<5	0.1	<1
254	80	15	0.2	<1
157-255	900W + 100N	<5	0.2	<1
256	120	<5	0.4	<1
257	140	<5	0.3	<1
258	160	<5	0.2	<1
259	180	<5	0.4	<1

Thomas J. Fletcher, Chief Assayer

ET#	Description	Au (ppb)	Ag (ppm)	As (ppm)
157-260	900W + 200N	<5	0.5	<1
261	220	10	0.2	<1
262	240	<5	0.4	<1
263	260	<5	0.2	<1
264	280	<5	0.2	<1
265	300	15	0.1	<1
157-266	900W + 20S	<5	0.1	<1
267	40	<5	0.2	<1
268	60	<5	0.2	<1
269	80	<5	0.2	<1
270	100	5	0.1	<1
157-271	900W + 120S	10	0.1	*
272	140	15	0.2	<1
273	160	5	0.2	<1
274	180	20	0.1	<1
275	200	15	0.3	<1
157-276	900W + 220S	<5	0.1	<1
277	240	25	0.1	<1
278	260	20	0.1	<1
279	280	20	0.1	<1
280	300	35	0.1	<1
157-281	975W + 00N	35	0.2	<1
157-282	975W + 20S	25	0.3	<1
283	40	20	0.2	<1
284	60	30	0.3	<1
285	80	15	0.2	<1
157-286	975W + 100S	15	0.4	<1
287	120	15	0.1	<1
288	140	25	0.1	<1
289	160	30	0.1	<1
290	180	<5	0.3	<1
157-291	975W + 200S	40	0.3	<1
292	220	95	0.3	<1
293	240	<5	0.1	<1
294	260	25	0.1	<1
295	280	15	*	*

Thomas J. Fletcher, Chief Assayer

ET#	Description	Au (ppb)	Ag (ppm)	As (ppm)
157-296	975W + 300S	20	0.7	<1
157-297	1000W + 00N	25	0.1	<1
298	20	25	0.2	<1
299	40	20	0.2	<1
300	60	30	0.1	<1
157-301	1000W + 80N	20	0.1	<1
302	100	25	0.2	<1
303	120	35	0.2	<1
304	140	25	0.3	<1
305	160	15	0.3	<1
157-306	1000W + 180N	55	0.3	<1
307	200	<5	0.1	<1
308	220	5	0.1	<1
309	240	10	0.1	<1
310	260	10	0.1	<1
157-311	1000W + 280N	<5	0.2	<1
312	300	20	0.2	<1
157-313	650W + 200S (rock)	25	1.6	
157-314	95N + 500W (rock)	35	0.5	
157-315	175N + 500W (rock)	20	0.8	

NOTE: < = less than
* insufficient sample to analyze for Silver

ECO-TECH LABORATORIES LTD.
Thomas J. Fletcher, B.Sc.
Chief Assayer

TJF/AV/mil

cc: Barnes Creek Minerals
Chase, B. C.

APPENDIX I

Eco-Tech LABORATORIES LTD.

ENVIRONMENTAL TESTING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ASSAYING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393

October 3, 1986

CERTIFICATE OF ANALYSIS ETK 86-213

SAMPLE IDENTIFICATION: 38 soil samples received September 8, 1986.
(Barnes Creek Project)

ET#	Description	Au (ppb)	Ag (ppm)	As (ppm)
213-1	RL - 1	<5	0.4	1
2	2	<5	0.4	1
3	100W + 60S	<5	0.4	1
4	+ 200N	<5	0.4	1
5	700W + 40S	10	0.7	1
213-6	700W + 60S	5	0.7	<1
7	200S	110	0.2	<1
8	20N	<5	0.3	<1
9	40N	35	0.4	<1
10	60N	10	0.3	<1
213-11	700W + 80N	<5	0.6	2
12	100N	<5	0.4	<1
13	120N	35	0.4	<1
14	140N	20	0.3	<1
15	160N	30	0.2	14
213-16	700W + 180N	10	0.4	2
17	200N	15	0.3	<1
18	220N	20	0.3	2
19	240N	<5	0.4	2
20	260N	<5	0.4	4

Thomas J. Fletcher, Chief Assayer

APPENDIX I

October 3, 1986

ET#	Description	Au (ppb)	Ag (ppm)	As (ppm)
213-21	700W + 280N	<5	0.3	3
22	300N	<5	0.2	<1
23	800W + 20N	10	0.2	<1
24	40N	10	0.3	9
25	60N	40	0.3	<1
213-26	800W + 80N	5	0.4	<1
27	100N	10	0.1	<1
28	120N	10	0.3	<1
29	140N	20	0.3	<1
30	160N	<5	0.9	<1
213-31	800W + 180N	<5	0.3	<1
32	200N	20	1.0	<1
33	220N	15	<0.1	<1
34	240N	45	0.3	<1
35	260N	35	<0.1	<1
213-36	800W + 280N	<5	0.1	<1
37	300N	25	0.3	<1
38	975W + 280S	25	0.2	<1

NOTE: < = less than

ECO-TECH LABORATORIES LTD.
Thomas J. Fletcher, B.Sc.
Chief Assayer

TJF/cpb

cc: Barnes Creek Minerals
Chase, B. C.

Eco-Tech
LABORATORIES LTD.

ENVIRONMENTAL TESTING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ASSAYING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 — Telephone (604) 573-5700 Telex 048-8393

DATE September 4 19 86

Attention: Mr. Darrell Johnson
Lacana Mining Corporation
CLIENT ~~312 - 409 Granville Street~~
~~VANCOUVER, B. C. V6C 1T6~~

ETK 86-151

INVOICE NO. _____

DESCRIPTION	AMOUNT
Re: PROJECT BARNES CREEK MINERALS	
312 Sample Preps @ $0.90 ea.	$ 280 80
312 Au Geochems @ $6.75 ea.	2,106 00
307 Ag Geochems @ $2.00 ea.	614 00
Subtotal	$ 3,000 80
10% Discount	-300 08
TOTAL DUE AND PAYABLE UPON RECEIPT	$ 2,700 72

rec'd Sept 25/86
$ 2700.72
bal o/s .50

TERMS: Net 30 days. Interest at the rate of 1½% per month (18% per annum) may be charged on overdue accounts.

Eco-Tech
LABORATORIES LTD.

ENVIRONMENTAL TESTING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ASSAYING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 — Telephone (604) 573-5700 Telex 048-8033

DATE September 29 19 86

Attention: Mr. Darrell Johnson
Lacana Mining Corporation
CLIENT [illegible]

ETK 86-157

INVOICE NO.

DESCRIPTION	AMOUNT	
Re: PROJECT BARNES CREEK MINERALS		
304 Arsenic Geochems @ $3.75 ea.	$ 1,140	00
10% Discount	-114	00
TOTAL DUE AND PAYABLE UPON RECEIPT	$ 1,026	00

TERMS: Net 30 days. Interest at the rate of 1½% per month (18% per annum) may be charged on overdue accounts.

Eco-Tech
LABORATORIES LTD.

ENVIRONMENTAL TESTING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ASSAYING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393

GEOCHEMICAL LABORATORY METHODS

SAMPLE PREPARATION

1. Soil or sediment samples are dried at 60°C, the lumps of soil are broken up on a bucking board and the entire sample is seived through an 80 mesh screen.

2. Rock samples are crushed and pulverized to -100 mesh.

GEOCHEMICAL ANALYSIS FOR Cu, Pb, Zn, Ag, Sb, Ni, Co, Cd

1.0 gram of sample is leached in 3 ml HNO_3 overnight at room temperature. The sample is brought up to 90°C in a water bath, 1.5 ml HCl is added, and the leaching is continued for a further 90 minutes. The sample is then cooled, diluted to 10 ml with distilled water and the above elements are determined by Atomic Absorption.

Minimum Reportable Concentrations

Element	ppm
Cu	1.
Pb	2.
Zn	1.
Ag	0.2
Sb	1.
Ni	2.
Co	2.
Cd	0.02

GEOCHEMICAL ANALYSIS FOR Au

The gold is collected in a silver bead through inquartation and conventional fire assaying of 10 grams of material. The bead is digested in aqua regia in a water bath at 90°C, the gold is then extracted into MIBK and determined by Atomic Absorption.

Minimum Reportable Concentration 5 ppb

.../2

GEOCHEMICAL ANALYSIS FOR As

0.25 gram of sample are taken to dryness in a mixture of HNO_3 and $HClO_4$. Excess HNO_3 is expelled with HCl and the arsenic is scrubbed into a solution of pyridine and SDDC to be determined colorimetrically on a spectrophotometer.

Minimum Reportable Concentration 1 ppm

GEOCHEMICAL ANALYSIS FOR TUNGSTEN

Sample is fused with potassium persulfate then extracted into 10 ml hydrochloric acid. 2 ml of the clear supernatant is reduced with 2 ml 10% stannous chloride and reacted with 1 ml 1% ZincDithiol/Isoamyl acetate. The test solution is heated 4 to 6 hours in a water bath maintained at 90°C. The test solution is then cooled and 1 ml petroleum spirit is added to dissolve the globule containing the dithiol-tungsten complex. The color intensity of the tungsten complex is compared to a series of tungsten standards.

Minimum Reportable Concentration 1 ppm

SAMPLE PREPARATION

A. RECEIVING AND SORTING

1. Each lot shipment of samples received will be assigned a unique job number by the Chief Assayer. This number together with the following information is to be entered in pen (not pencil) into the sample log book:

   - Job number
   - Client name and address
   - Date and time received
   - Names of individuals to receive results
   - Name of person receiving samples
   - Analyses required
   - Type of sample (ie. Core, Soil, Chip - Assay or Geochem)

2. Organize sample bags on a sorting table, so that sample tags or bag markings are in a logical alphanumerical sequence as indicated on sample shipment form submitted by client.

3. Enter the sample description into the log book and assign a lab number to each sample. Each lab number that has been assigned must also be marked on the sample bag using a felt pen.

4. Using the numbering stamp, mark the sample pulp bags with the lab number preceeded by the assigned number.

LINE 6000W		DIP	FILT.	F.S.
220N	+470	+8		69
7 240N DROPS OFF	-1800	+14		55
7 NEGATIVE OUTLIER 260N (SAMPLE)	-4700	+12		60
280N	-6200	+12		56
7 300N OLD LOCN 300N	-160	+10		54
LINE 5000				
160N	+1900			
140N	+2050			
120N	+960			
60N	-760			
00N	+20			

LINE 700W		DIP	FILT	F.S.
200N	+0	+12		80
180N	-2150	-6		81
160N	+220	-6		66
140N	-10	+2		63
120N	+6200	-1		60
100N	+3300	+4		60
80N	+3600	+3		61
60N	+3000	+1		60
40N	+4700	+2		61
20N	+2800	-1		60
00S Base	+1500	+4		59
20S	+2150	-3		58
40S	+160	0		55
60S	+1800	0		56
80S	+4700	+3	-1	55
100S	+5800	+4	+1	58
120S	+3600	0	-10	57
140S	+6000	+6	-12	55
160S	+1050	+8	-2	60
180S	+2200	+10	+14	62
200S	+1350	+6	+22	72
220S	+3400	-2	+16	70
240S	+2550	-4	+12	70
260S	+2550	-8	+12	69
280S	+2800	-10		68
300S	+2900	-14		62

LINE 600W		DIP	FILT.	F.S.
300S	+1150	-16		58
280S	+1300	-17	-11	65
260S	+2800	-19	-24	73
240S	+1900	-8	-29	79
220S	+240	+1	-14	82
200S	+1550	+6	+5	73
180S	+2300	+1	+4	63
160S	+1400	+1	-7	64
140S	+240	+2	-7	66
120S	+3100	+7	+3	56
100S	+1150	+3	+3	58
80S	+2500	+3	-4	55
60S	+950	+4	-5	60
40S	+470	+6	-6	57
20S	+1150	+6	-2	55
00S Base	+1100	+10	+12	50
20N	+1200	+4	+12	45
40N	+780	+0	0	50
60N	+2800	+2	-3	53
80N	+1858	+2	+2	56
100N	+560	+3	+2	60
120N	+640	-1	-7	61
140N Final pull 90° on compass	+5800	+4	-9	66
160N	-2250	+5	-9	64
180N	+3300	+8	-5	64
200N	+220	+10		66

LINE 900W		DIP	FILT	F.S.
40S	+2350	+1		62
60S	+1600	+1	-8	69
80S	+2200	+2	-2	61
100S	+3100	+8	+14	66
120S	+490	-3	+6	70
140S	+360	-1	+0	66
160S	+660	0	+11	70
180S CHALCOCITE VEIN	+570	(FLOAT) -4	+20	71
200S	+340	-8	+17	70
220S	+180	-16	-8	65
240S	+2250	-13	-22	56
260S	+2000	-3	-8	59
280S	+2000	-9		61
300S	+3800	-9		60
LINE 800W		QC	FILT	F.S.
300S	+4300	-6		57
280S	+3900	-7	-1	60
260S	+3400	-8	-8	64
240S	+3600	-9	-12	62
220S	+2700	-3	-9	65
200S	+1850	+3	-1	62
180S	+1900	-1	-4	65
160S	+1950	+2	-4	63
140S	+1650	+4	+3	59
120S	+1400	+1		60
100S	+2550	+2		61

LINE 800W		DIP	FILT	F.S.
80S	+5400	-2		59
60S	+2550	+2		60
40S	+1300	-3		60
20S	+2100	-2		59
00S	+2500	-2		60
20N	+560	0		61
40N	+2200	+5		65
60N	+4300	+4		64
80N	+1800	+6		63
100N	+3700	+4	+7	62
120N	+4900	+4	0	60
140N	-980	-1	+20	59
160N	-1700	-7	-6	65
180N	+2000	-10	-48	70
200N	-1050	+8	-48	92
220N	-1200	+22	-8	73
240N	-980	+24	+18	60
260N	+580	+14	+14	57
280N	+1200	+14		58
300N	+1400	+10		60
LINE 700W		QC	FILT	F.S.
300N	-330	+10		56
280N	+200	+16		56
260N	+630	+18		57
240N	+1000	+19		63
220N	+600	+16		75

GOLDEN LOONS -12- AUG 18 -86 (SUNNY)

LINE 975W

		DIP	FILT	F.S
300S	+2250	-4		63
280S	+2150	-2	-9	64
260S	+1825	+1	-6	65
240S	+3700	+2	+5	60
220S	+2175	+3	+16	60
200S	+1125	-5	+10	57
180S	+1150	-6	+2	60
160S	+1350	-6	-1	61
140S	+780	-7	-1	64
120S	+650	-4	+2	63
100S	-160	-8	-1	68
80S	-350	-5	-6	72
60S	-650	-6	-15	71
40S	-1200	-1	-16	77
20S	+1300	+5		65
00S	+1200	+4		64

LINE 1000W

		DIP	FILT	F.S
00N	+310	+4		66
20N	+1050	+6		67
40N	+2550	+1		63
60N	+2750	+2		63
80N	+340	-3		66
100N	+2300	+3		65
120N	+5600	+4		64
140N	+3300	+3		65
160N	+1900	-7		69
180N	+3800	-3		70
200N	-1550	-8		77
220N (7220 CHALCEDONIC OUTCROP)	-360	+2		95
240N	+1350	+17		72
260N	-1050	+19		69
280N	+130	+13		65
300N	-280	+12		65

-13-

LINE 900W

		DIP	FILT	F.S.
300N	+1350	+14		63
280N	+1850	+12	-4	65
260N	+900	+16	+10	73
240N	-530	+14	+30	84
220N	-740	+4	+25	91
200N	-1100	-4	+3	79
180N (7180N OUTCROP [illegible] (COMPLEX))	-1750	-3	-10	72
160N	+3300	0	-11	65
140N	+970	+3	-3	65
120N	+1325	+5	+8	65
100N	+2850	+1	+8	68
80N	+2250	-1		65
60N	+2900	-1		66
40N	+2200	-1		67
20N	+1750	0		65
00N	+940	+1		64
20S	+2700	+2		65

LINE 300W		DIP	FILT	E.S
280S	+1650	+4		85
300S	+8200	-6		66
LINE 400W				
300S	+1650	-8		78
280S	+3150	-10	-28	75
260S	+3800	+4	-22	95
240S	+9300	+6	-11	73
220S	+5200	+10	-8	66
200S	+9200	+11	+0	62
180S	+9800	+13		69
160S	+1300	+8		65
140S	+1200	+10		63
120S	+2150	+16		62
100S	+1600	+21		54
80S	+460	+8		58
60S	+3300	+10		50
40S	+1950	+12		58
20S	+920	+19		54
00S	-920	+12		55
20N	+30	+4		55
40N	-380	+4		55
60N	+170	+8		54
80N	+1500	+8		54
100N	+1300	+10		55
120N	+2000	+8		60
140N	+1650	+12		59

LINE 400W		DIP	FILT	E.S
160N	+11,500	+4		58
180N	+1700	+8	-8	58
160N	+850	+10	-5	58
200N	+310	+10	-2	60
220N	-1500	+12	+4	60
240N	-960	+10	+8	59
260N	+900	+8	+2	56
280N	-1500	+6		55
300N	-200	+8		54
LINE 500W		DIP	FILT	E.S.
300N	-280	+18		55
280N	-1150	+12	-6	56
260N	-1100	+20	+6	60
240N	+620	+16	+22	62
220N	+820	+10	+19	67
200N	+650	+4	+3	62
180N	+1150	+3	-9	62
160N	+1900	+8	-1	61
140N	+2150	+8	+4	60
120N	+910	+4	+5	58
100N	+1500	+8	+11	62
80N	+460	-1	+1	61
60N	-780	+2	-7	59
40N	-370	+4	-6	18
20N	+400	+4		18
00N	0	+8		50

> FOLDER CONTINUES

LINE 200W		DIP	FILT	F.S
120S	+200	+4		79
100S	-350	+8		76
80S	+440	+12		72
60S	+470	+12		68
40S	+1200	+10		67
20S	+580	+5		66
00S @	+1050	+10		67
20N	+1550	+10		67
40N	+2550	+12		64
60N	+2900	+2		66
80N	+3000	+8		66
100N	-1050	+14		64
120N	-1450	+13		60
> 5a OFF POST 7				
140N	+270	+10		62
160N	+830	+14		55
180N	+195	+16		52
200N	+1050	+10		55
220N	-2550	+10		54
240N	-2100	+10		56
260N	-2350	+12		55
280N	-2000	+10		53
300N	-1600	+6		55
LINE 300W		DIP	FILT	F.S.
300N	-2500	+4		56
280N	-1550	+11		53
260N	-1300	+11		54

LINE 300W		DIP	FILT	F.S.
240N	-1400	+14		56
220N	-930	+8	-18	54
200N	-450	+17	-14	55
180N	-1200	+23	+2	55
160N	-860	+16	+19	65
140N	-1250	+12	+8	60
120N	+180	+8	+0	63
100N	-540	+12	+2	62
80N	+5100	+8	-5	62
60N	+5900	+10	-7	60
40N	+2700	+15	-1	61
20N	+1975	+10	+1	66
00N	+3600	+16	+8	52
20S	+800	+8	+3	56
40S	+760	+10	-3	56
60S	+420	+11	-1	55
80S	+2550	+10	-4	58
100S	+1450	+12	-1	56
120S	+1550	+13	-9	55
140S	+2300	+20	-9	55
160S	+1900	+14	-14	65
180S	+1850	+28	+10	68
200S	+2650	+20	+25	63
220S	+2600	+12	+7	68
240S	+1000	+11		72
260S	+9200	+14		74

LINE 00W		DIP	FLT	F.S.
180N	+460	+12		55
200N	-680	+8	+6	55
220N	-180	+6	+4	54
240N	-750	+8	+6	54
260N	-1250	+2	-9	57
280N	-1250	+6		57
300N	-1100	+13		56
LINE 100W		DIP	FLT	F.S.
300N	-1000	-7		57
280N	-870	+6	-17	55
260N	-3000	+6	-12	55
240N	+420	+10	-13	55
220N	-2450	+14	-4	56
200N	-600	+15	+6	57
180N	-2200	+13	+4	55
160N	-1150	+10	-5	58
140N	+60	+14	-12	57
120N	+1950	+14	-11	54
100N	-410	+22	+5	58
80N	-490	+17	+7	66
60N	+1200	+14	+3	68
40N	+2850	+18	+17	72
20N	+880	+10	+18	68
00N	+1400	+5	+6	+70
20S		+5		+75
40S		+4		+75

LINE 100W		DIP	FLT	F.S.
00S	+1600	+6		71
20S CROSS POINT RATIO?				
20S	+2050	+5	+3	75
40S	+960	+4	-2	75
60S	+1800	+4	+1	75
80S	+1000	+7	+15	79
100S	+1550	+0	+16	83
120S	+1950	-4	+1	76
140S	+2500	-5	-14	70
160S	+1200	0	-13	69
180S	+2075	+4	-4	65
200S	+2475	+4	-8	62
220S	+2200	+4	-22	65
240S	+1800	+12	-6	64
260S	+2450	+8	-9	70
280S	+1825	+14		75
300S	+1900	+15		78
LINE 200W		DIP	FLT	F.S.
300S	+2950	+4		92
280S	+3800	+12		81
260S	+1700	+14		77
240S	+2850	+16		71
220S	+3400	+11		62
200S	+3050	+5		62
180S	+2200	-1		65
160S	+2750	-4		67
140S	+790	-2		80

GOLDEN COONS -5- AUG 13-88 (HOT) SUNNY

ANNAPOLIS @ G = 219

LINE 00W		DIP	FILT	F.S.
300S	+2200	+10		67
280S	+3200	+10	-1	66
260S	+2750	+11	-5	68
240S	+3500	+10	-2	65
PENTLANDITE BVEE 220S (1270S)	+4800	+16	+21	58
200S	+3200	+7	+21	56
180S	+2450	-2	+5	60
160S	+6800	+4	+13	58
140S	-5800	-4	+7	62
120S	+2150	-7	-10	67
100S	+810	0	-6	71
780S CROSS ROAD CAMP 80S	+1700	-1	-4	68
60S	+660	0	-4	74
40S	+1150	+3	+2	68
20S	+6600	0	+0	68
00S	+4100	+1	-7	75
20N	+2800	+2	-15	75
40N	+2050	+6	-17	76
60N	+1300	+12	-5	70
80N	+2150	+13	-2	66
100N	+2000	+10	-12	64
120N	+580	+17	-11	66
140N	+100	+18		63
160N	+1050	+20		55

GOLDEN COONS GEOCHEM

LINE 00W	DEP	HORZ	COLOR	SLOPE
300S	10cm	B	GRY	20%
280S	12cm	B	GRY	20%
260S	12cm	B	GRY	15%
240S	10cm	B	GRY	15%
220S	11cm	B	GRY	10%
200S	12cm	B	GRY	10%
180S	12cm	B	GRY	10%
160S	14cm	B	GRY	10%
140S	12cm	B	GRY	10%
120S	12cm	B	GRY	10%
100S	14cm	B	GRY	10%
100S	14cm	B	GRY	10%
80S	12cm	B	GRY/BRW	10%
60S	12cm	B	GRY	10%
40S	11cm	B	GRY	10%
20S	12cm	B	GRY	10%
00S	12cm	B	GRY	10%
20N	12cm	B	GRY	5%
40N	12cm	B	GRY	5%
60N	10cm	B	GRY	5%
80N	10cm	B	GRY	5%
80N	11cm	B	GRY	5%
120N	11cm	B	GRY	5%
140N	12cm	B	GRY	5%
160N	10cm	B	GRY	5%

600W+140N POLLED M14
COMPASS - 90°
600W+60N CROSSES THUYA LK.
600W+170N CROSSES THUYA LAKE ROAD
600W+283N CROSS OLD LOG RD.
688W+300N CROSS THUYA LK RD.
700W+280N OLD LOG RD
15M WEST OF 700W LINE
900W+180N (MAGNETITE) PERIDOTITE OUTCROP
900W+120N & 100N IN BETWEEN SWAMPS
900W+40N WEST 20M IS SMALL POND
1KW+20N — MICA QUARTZ SCHIST

LINE 500W ← MAG BASE 0 CAL

	MAG	OLP	FLT	F.S
ON	+0	+16		50
20S	-140	+10	+0	51
40S	+610	+14	+2	48
60S	+3600	+12	+6	48
80S	+1150	+10	-2	47
100S	+1700	+10	-4	52
120S	+1750	+14	+2	51
140S	+550	+10	+6	53
160S	+2650	+12	+13	50
180S	+1200	+6	+14	67
200S	+2100	+3	+8	65
220S	+3100	+1	+6	66
240S	+2500	0	+13	67
260S	+1800	-2	+20	72
280S	+1350	+0		52
300S	+1200	-12		53

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GOLDEN KOONS AUG 11-86 SUNNY

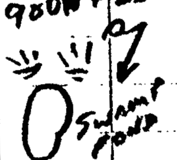
CHALCEDONY (RANDY BOYES)

ACROSS VEIN

LINE ON 0

00W
50W
100W
150W
200W
250W
300W
350W
400W
> 408 CROSSES FISTZ LINE (EAST LINE EASCHAR)
450W
500W
550W
600W
> 625 CROSSES MAIN ROAD
650 W
700 W
750W
800W
850W
900W
950

900W + 25N



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GOLDEN KOONS AUG 12-86 CLOUDS SUNNY

210° GRID LINES

GRID 00W

GRID 100W

20 M WEST OF STATION 100W + 50N

300W + 22N CROSSES CAMP ROAD TO CHALCEDONY

12 M WEST ON 300W + 0N LINE

310W + 15N CHALCEDONY OUTCROP

400W + 76N CROSSES CAMP ROAD

461W + 300N CROSS OLD LOGGING ROAD

500W + 282W CROSSES OLD LOGGING ROAD

500W + 107N CROSS CAMP ROAD

500W + 40N CHALCEDONY OUTCROP

6 M WEST OF STATION 500W + 0N

LINE	900W	DEPT	HORZ	COLOR	SLOPE
	140S	12cm	B	GRY	10%
	160S	10cm	B	GRY	10%
	180S	14cm	B	GRY	5%
	200S	14cm	B	GRY	10%
	220S	14cm	B	GRY	10%
	240S	12cm	B	GRY	15%
	260S	10cm	B	GRY	15%
	280S	14cm	B	GRY	10%
	300S	12cm	B	GRY	5%
LINE 1000W					
	300S	10cm	B	BRWN	10%
	280S	12cm	B	GRAY	10%
	260S	11cm	B	GRAY	15%
	240S	10cm	B	GRY	15%
	220S	12cm	B	GRY	15%
	200S	11cm	B	GRY	20%
	180S	14cm	B	GRAY	20%
	160S	12cm	B	BRWN	15%
	140S	10cm	B	BRWN	5%
	120S	10cm	B	GRY	5%
	100S	12cm	B	GRY	5%
	80S	14cm	B	GRY	5%
	60S	11cm	B	GRY	5%
	40S	8cm	C	BRN	10%
	20S	10cm	B	GRY	10%
	00S	10cm	B	GRY	10%

LINE 1000W		DEPT	HORZ	COLOR	SLOPE
	20N	11cm	B	GRY	10%
	40N	12cm	B	GRY	10%
	60N	12cm	B	GRY	15%
	80N	14cm	B	BRWN	5%
	100N	14cm	B	BRWN	10%
	120N	11cm	B	GRY	15%
	140N	10cm	B	GRY	15%
	160N	12cm	B	GRY	10%
	180N	12cm	B	GRY	10%
	200N	14cm	B	GRY	10%
	220N	10cm	B	GRY	15%
	240N	12cm	B	GRY	10%
	260N	11cm	B	GRY	15%
	280N	10cm	B	GRY	15%
	300N	10cm	B	GRY	10%

LINE	BOON	DEPT	HORZ	COLOR	SLOPE
	260S	10cm	B	GRY	10%
	240S	10cm	B	GRY	15%
	220S	12cm	B	RED	15%
	200S	11cm	B	BRWN	10%
	180S	12cm	B	BRWN	10%
	160S	12cm	B	BRWN	15%
	140S	11cm	B	GRY	15%
	120S	8cm	B	GRY	15%
	100S	10cm	B	GRY	15%
	80S	10cm	B	GRY	15%
	60S	12cm	B	GRY	15%
	40S	14cm	B	BRWN	20%
	20S	12cm	B	GRY	20%
	00S	14cm	B	GRY	15%
	20N	10cm	B	GRY	15%
	40N	8cm	B	BRWN	10%
	60N	8cm	B	BRWN	10%
	80N	10cm	B	RED	15%
	100N	11cm	B	RED	10%
	120N	12cm	B	GRY	15%
	140N	14cm	B	GRY	10%
	160N	14cm	B	GRY	10%
	180N	14cm	B	GRY	10%
	200N	10cm	B	GRY	10%
	220N	12cm	B	GRY	10%
	240N	10cm	B	GRY	15%

LINE	BOON	DEPT	HORZ	COLOR	SLOPE
	260N	12cm	B	GRY	10%
	280N	11cm	B	GRY	10%
	300N	10cm	B	GRY	10%
LINE 900W					
	300N	12cm	B	GRY	15%
	280N	12cm	B	GRY	15%
	260N	12cm	B	GRY	10%
	240N	14cm	B	BRWN	10%
	220N	14cm	B	BRWN	15%
	200N	14cm	B	RED/B	15%
	180N	12cm	B	RED/B	20%
	160N	10cm	B	GRY	20%
	140N	12cm	B	GRY	15%
	120N	11cm	B	GRY	10%
	100N	10cm	B	GRY	5%
	80N	11cm	B	GRY	5%
	60N	12cm	B	GRY	5%
	40N	10cm	B	BRWN	10%
	20N	14cm	B	BRWN	10%
	00N	10cm	B	GRY	10%
	20S	12cm	B	GRY	15%
	40S	11cm	B	GRY	15%
	60S	12cm	B	GRY	10%
	80S	14cm	B	GRY	5%
	100S	12cm	B	GRY	5%
	120S	12cm	B	GRY	5%

LINE 600W	DEPT	HORZ	COLOR	SLOPE
20S	12cm	B	GRY	10%
00S	12cm	B	GRY	10%
20N	12cm	B	GRY	10%
40N	14cm	B	GRY	10%
60N	14cm	B	RED	5%
80N	14cm	B	RED	5%
100N	12cm	B	RED	10%
120N	12cm	B	BRWN	10%
140N	10cm	B	GRY	15%
160N	12cm	B	GRY	10%
180N	10cm	B	GRY	5%
200N	8cm	A/B	BLK	5%
220N	12cm	B	GRY	5%
240N	10cm	B	GRY	10%
260N	14cm	B	GRY	10%
280N	10cm	B	GRY	5%
300N	10cm	B	GRY	10%
LINE 700W				
300N	10cm	B	GRY	10%
280N	10cm	B	GRY	10%
260N	12cm	B	BRWN	15%
240N	12cm	B	BRWN	15%
220N	10cm	B	RED	10%
200N	10cm	B	GRY	10%
180N	10cm	B	GRY	10%
160N	12cm	B	GRY	10%

LINE 700W	DEPT	HORZ	COLOR	SLOPE
140N	12cm	B	GRY	10%
120N	10cm	B	GRY	15%
100N	12cm	B	GRY	20%
80N	12cm	B	RED	15%
60N	10cm	B	RED	15%
40N	10cm	B	BRWN	10%
20N	12cm	B	GRY	10%
00N	11cm	B	GRY	10%
20S	14cm	B	GRY	15%
40S	14cm	B	GRY	15%
60S	14cm	B	GRY	20%
80S	10cm	B	GRY	20%
100S	12cm	B	GRY	20%
120S	11cm	B	GRY	15%
140S	14cm	B	BRWN	15%
160S	12cm	B	GRY	10%
180S	12cm	B	GRY	5%
200S	10cm	B	GRY	5%
220S	12cm	B	GRY	5%
240S	12cm	B	BRWN	10%
260S	10cm	B	GRY	10%
280S	12cm	B	RED	15%
300S	10cm	B	RED	10%
LINE 800W				
300S	10cm	B	BRWN	10%
280S	10cm	B	GRY	10%

LINE 400W	DEPT	HORZ	COLOR	SLOPE
300S	10cm	B	GRY	10%
280S	10cm	B	GRY	10%
260S	10cm	B	GRY	10%
240S	10cm	B	BRWN	10%
220S	12cm	B	BRWN	10%
200S	12cm	B	GRY	10%
180S	12cm	B	GRY	5%
160S	14cm	B	GRY	5%
140S	12cm	B	GRY	5%
120S	10cm	B	BRWN	5%
100S	11cm	B	BRWN	5%
80S	11cm	B	BRWN	5%
60S	12cm	B	RED	5%
40S	10cm	B	RED	5%
20S	10cm	B	GRY	10%
00S	14cm	B	GRY	10%
20N	14cm	B	GRY	15%
40N	14cm	B	GRY	5%
60N	10cm	B	GRY	15%
80N	12cm	B	GRY	10%
100N	11cm	B	GRY	10%
120N	10cm	B	BRWN	10%
140N	12cm	B	RED	10%
160N	10cm	B	GRY	5%
180N	10cm	B	GRY	5%
500N	10cm	B	GRY	5%

LINE 500W	DEPT	HORZ	COLOR	SLOPE
100S	10cm	B	GRY	10%
120S	12cm	B	GRY	15%
140S	10cm	B	GRY	10%
160S	14cm	B	GRY	10%
180S	14cm	B	BRWN	10%
200S	12cm	B	BRWN	10%
220S	10cm	B	RED	10%
240S	12cm	B	BRWN	5%
260S	10cm	B	GRY	5%
280S	10cm	B	GRY	5%
300S	10cm	B	GRY	5%
LINE 600W				
300S	10cm	B	RED	10%
280S	12cm	B	BRWN	15%
260S	10cm	B	BRWN	10%
240S	12cm	B	GRY	10%
220S	12cm	B	GRY	5
200S	14cm	B	GRY	10
180S	14cm	B	GRY	15
160S	12cm	B	GRY	10%
140S	12cm	B	GRY	5%
120S	14cm	B	GRY	5
100S	10cm	B	GRY	5
80S	12cm	B	GRY	5
60S	11cm	B	GRY	5
40S	10cm	B	GRY	5

LINE 300W	DEPT	HORZ	COLOR	SLOPE
180N	10m	B	GRY	10%
160N	10m	B	GRY	10%
140N	10m	B	GRY	10%
120N	10m	B	GRN	10%
100N	12m	B	GRY	15%
80N	11m	B	BRWN	20%
60N	11m	B	BRWN	20%
40N	12m	B	GRY	15%
20N	14m	B	GRY	10%
00N	14m	B	BRWN	10%
20S	12m	B	RED	5%
40S	14m	B	RED	5%
60S	10m	B	GRY	5%
80S	10m	B	GRY	5%
100S	12m	B	GRY	10%
120S	11m	B	GRY	10%
140S	14m	B	BRWN	5%
160S	12m	B	GRY	5%
180S	10m	B	GRY	5%
200S	12m	B	BRWN	5%
220S	12m	B	RED	5%
240S	12m	B	GRY	10%
260S	10m	B	GRY	10%
280S	10m	B	GRY	10%
300S	12m	B	GRN	10%

LINE 400W	DEPT	HORZ	COLOR	SLOPE
220N	12m	B	GRY	10%
240N	10m	B	GRY	10%
260N	12m	B	GRY	10%
280N	10m	B	GRN	10%
300N	10m	B	GRN	10%
LINE 500W				
30TN	10m	B	GRY	10%
280N	10m	B	GRY	10%
260N	12m	B	BRWN	5%
240N	12m	B	BRWN	5%
220N	11m	B	GRY	5%
200N	14m	B	GRY	5%
180N	12m	B	GRY	5%
160N	10m	B	BRWN	10%
140N	10m	B	RED	10%
120N	12m	B	BRWN	10%
100N	14m	B	GRY	10%
80N	12m	B	GRY	5%
60N	14m	B	GRY	5%
40N	11m	B	GRY	5%
20N	10m	B	GRY	5%
00N	10m	B	GRN	5%
20S	12m	B	GRY	5%
40S	10m	B	GRY	10%
60S	12m	B	GRY	10%
80S	14m	B	GRY	15%

LINE 100W	DEPT	HORZ	COLOR	SLOPE
60S	12cm	B	Gry	10%
80S	10cm	B	Gry	5%
100S	10cm	B	Gry	5%
120S	10cm	B	Brown	5%
140S	10cm	B	Brown	10%
160S	12cm	B	Red	15%
180S	14cm	B	Red	18%
200S	14cm	B	Red	20%
220S	14cm	B	Brown	20%
240S	12cm	B	Gry	15%
260S	12cm	B	Gry	15%
280S	10cm	B	Gry	15%
300S	12cm	B	Gry	10%
LINE 200W				
300S	14cm	B	Gry	10%
280S	14cm	B	Gry	10%
260S	10cm	B	Brown	5%
240S	10cm	B	Gry	5%
220S	10cm	B	Gry	5%
200S	12cm	B	Gry	5%
180S	12cm	B	Gry	5%
160S	10cm	B	Blk	5%
140S	14cm	B	Brown	10%
120S	11cm	B	Gry	10%
100S	10cm	B	Gry	10%
80S	10cm	B	Gry	10%

LINE 200	DEPT	HORZ	COLOR	SLOPE
60S	10cm	B	Gry	10%
40S	12cm	B	Gry	10%
20S	12cm	B	Brown	5%
00S	12cm	B	Brown	5%
20N	10cm	B	Red	5%
40N	11cm	B	Red	5%
60N	11cm	B	Gry	5%
80N	10cm	B	Gry	10%
100N	12cm	B	Gry	10%
120N	10cm	B	Gry	10%
140N	12cm	B	Gry	5%
160N	14cm	B	Gry	5%
180N	14cm	B	Gry	10%
200N	14cm	B	Gry	10%
220N	14cm	B	Gry	10%
240N	10cm	B	Brown	5%
260N	11cm	B	Brown	15%
280N	11cm	B	Gry	15%
300N	10cm	B	Gry	15%
LINE 300				
300N	10cm	B	Gry	10%
280N	10cm	B	Gry	5%
260N	12cm	B	Gry	5%
240N	12cm	B	Gry	5%
220N	10cm	B	Gry	5%
200N	10cm	B	Gry	5%

GOLDEN LINE	ODW	COONS DEPT	HORZ	GEOCHEM COLOR	SLOPE
300S	—	12m	B	GRY	10%
280S	—	12m	B	GRY	10%
260S	—	10m	B	GRY	10%
240S	—	14m	B	Red	5%
220S	—	12m	B	Red	5%
200S	—	12m	B	Red	5%
180S	—	12m	B	Brwn	10%
160S	—	10m	B	GRY	10%
140S	—	10m	B	GRY	5%
120S	—	10m	B	GRY	5%
100S	—	12m	B	GRY	10%
80S	—	11m	B	GRY	5%
60S	—	12m	B	Brwn	15%
40S	—	14m	B	GRY	0%
20S	—	12m	B	GRY	5%
00S	—	10m	B	GRY	5%
20N	—	12m	B	GRY	5%
40N	—	10m	B	GRY	5%
60N	—	11m	B	GRY	5%
80N	—	14m	B	GRY	10%
100N	—	14m	B	GRY	10%
120N	—	10m	B	Brwn	15%
140N	—	12m	B	GRY	15%
160N	—	12m	B	GRY	10%

LINE 00W	DEPT	HORZ	COLOR	SLOPE
180N	12m	B	GRY	10%
200N	11m	B	GRY	10%
220N	10m	B	GRY	10%
240N	11m	B	GRY	10%
260N	12m	B	GRY	5%
300N	10m	B	GRY	5%
		B	GRY	5%
LINE 100W		B	GRY	5%
300N	10m	B	GRY	10%
280N	10m	B	GRY	10%
260N	11m	B	GRY	5%
240N	11m	B	GRY	5%
220N	12m	B	GRY	10%
200N	14m	B	GRY	15%
180N	10m	B	GRY	15%
160N	11m	B	GRY	15%
140N	12m	B	GRY	10%
120N	10m	B	GRY	10%
100N	12m	B	BRWN	10%
80N	11m	B	GRY	10%
60N	12m	B	GRY	10%
40N	14m	B	GRY	10%
20N	14m	B	GRY	10%
00N	12m	B	GRY	10%
20S	10m	B	GRY	10%
40S	11m	B	GRY	10%