

87-112-15870



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S)	TOTAL COST
PROSPECTING	\$ 8,007.00

AUTHOR(S) L.D. Lutjen SIGNATURE(S) *[Signature]*
 R. D. Lodmell
 DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED March 6, 1986 YEAR OF WORK 1986
 PROPERTY NAME(S) Golden Loon

COMMODITIES PRESENT

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION Kamloops NTS 92 P. 8 W

LATITUDE 51° 26' LONGITUDE 120° 18'

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

Golden Loon V (Rec. No. 6539 - 20 units) - Golden Loon VI (Rec. No. 6540 - 20 units)
 Golden Loon VIII (Rec. No. 6550 - 20 units) - Golden Loon IX (Rec. No. 6556 -
 20 units).

OWNER(S)

(1) Larry D. Lutjen

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

MAILING ADDRESS

R.R. 1 - B12 - S11
 Chase, B.C. V0E 1M0

OPERATOR(S) (that is, Company paying for the work)

(1) Barnes Creek Minerals Corporation

15,870

MAILING ADDRESS

RR 1 - B36 - S11
 Chase, B.C. V0E 1M0

FILMED

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

Upper Triassic to lower Jurassic Thuya Batholith of Granodiorite composition
 contacts the Nicola Group Augite, Shale, Phyllite, and Limestone. An intrusion
 of Ultramafics along the contact consists of Peridotite, Serpentine and
 Pentlandite.

REFERENCES TO PREVIOUS WORK Assessment reports 1051 - 4689 - 9061
 BCDM Bull. 1, 1933, 41; Bull. 28, 1950, 38-39

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
GEOLOGICAL (scale, area)			
Ground			
Photo			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for)			
Soil			
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralogic			
Metallurgic			
PROSPECTING (scale, area)	1:12500	Golden. Loon. V. - VI. - VIII. - IX	\$ 8,007.00
PREPARATORY/PHYSICAL			
Legal surveys (scale, area)			
Topographic (scale, area)			
Photogrammetric (scale, area)			
Line/grid (kilometres)			
Road, local access (kilometres)			
Trench (metres)			
Underground (metres)			
			TOTAL COST \$ 8,007.00

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report)				
Value of work approved				
Value claimed (from statement)				
Value credited to PAC account				
Value debited to PAC account				
Accepted Date	Rept. No.			Information Class

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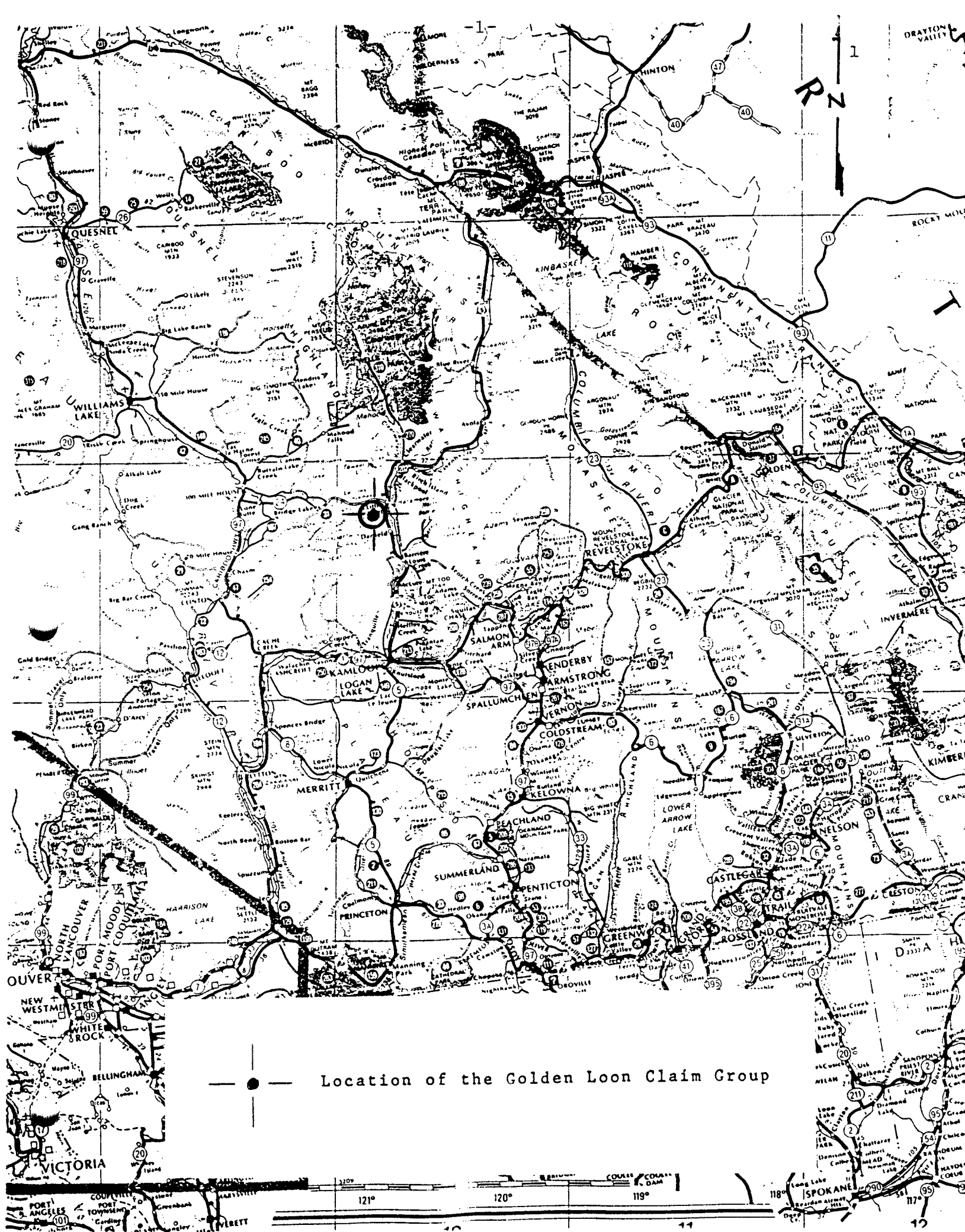
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● — Location of the Golden Loon Claim Group

121°

120°

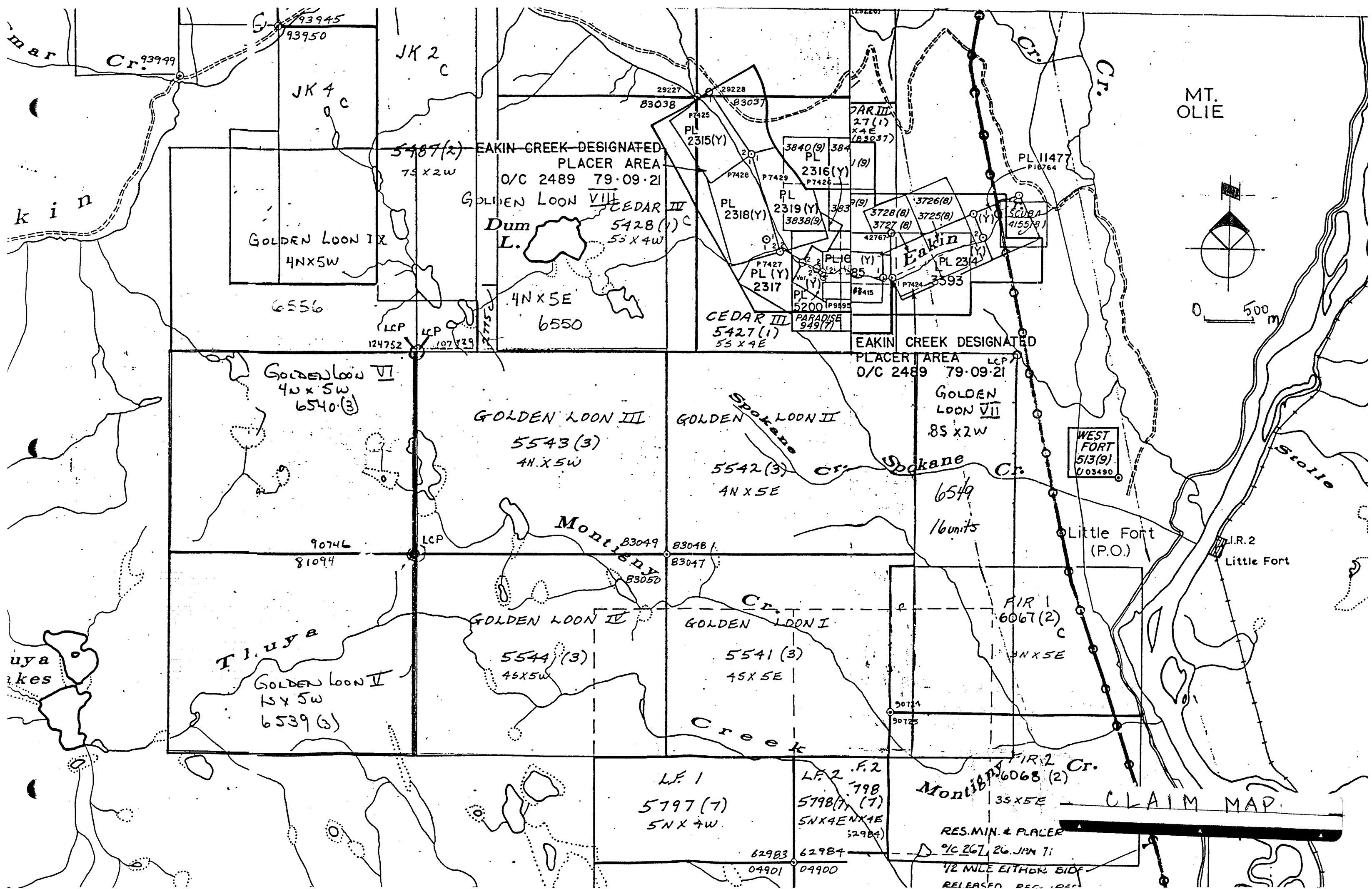
119°

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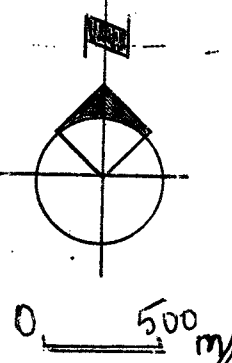
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Topographical Map of the
Golden Loons Grounds



MT. OLIE



WEST FORT
513(9)
003490

Little Fort
(P.O.)

Little Fort

FIR 1
6067(2)
C
3N X 5E

FIR 2
6068(2)
C
3S X 5E

LF 1
5797(7)
5N X 4W

LF 2
5798(7)
5N X 4E
52984

RES. MIN. & PLACER
O/C 267, 26 JAN 71
1/2 MILE EITHER SIDE
RELEASED PER ORDER

CLAIM MAP

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,870

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

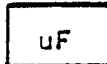
P-Pm

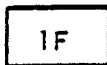
- P-Pm - unit 3 of Campbell & Tipper(1969); includes volcanic arenite, greenstone, argillite, phyllite; minor qtz.-mica schist, limestone, basalt-andesite flows, amphibolite, conglomerate and breccia; Cache Creek Group.

GEOLOGIC LEGEND cont'd.:

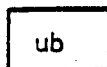
Devonian to Permian: 225 - 400 my

Fennell Formation:


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


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


Unknown Age:


 - ub - Serpentinite.

SYMBOLS


 - fault, normal.

 - thrust fault.

 - geologic contact.

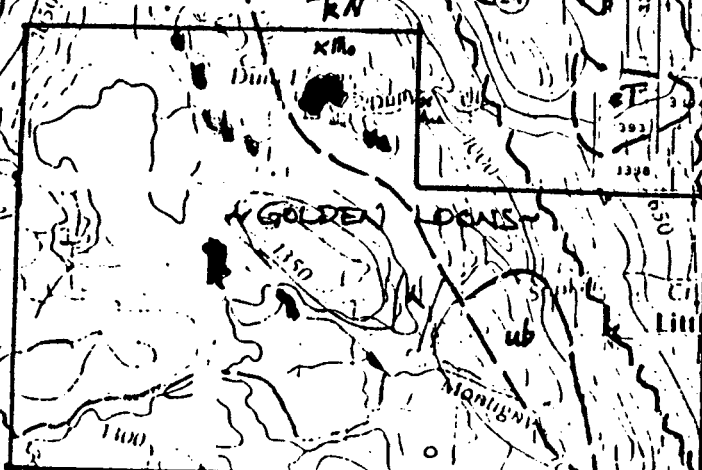
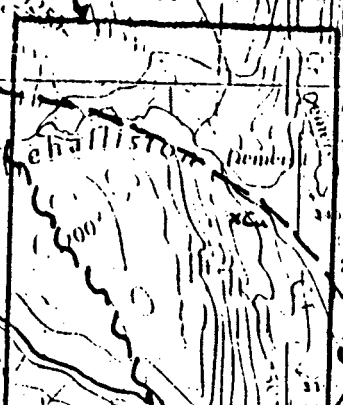
 - placer-gold stream.

X Au - mineral occurrences.

 - claim boundary.



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STON
THUYA
BATHOLITH
R-J

K.F. GROUP

GEOLOGY MAP

1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850

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.; VOE 1MO. 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 an ultramafic 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.

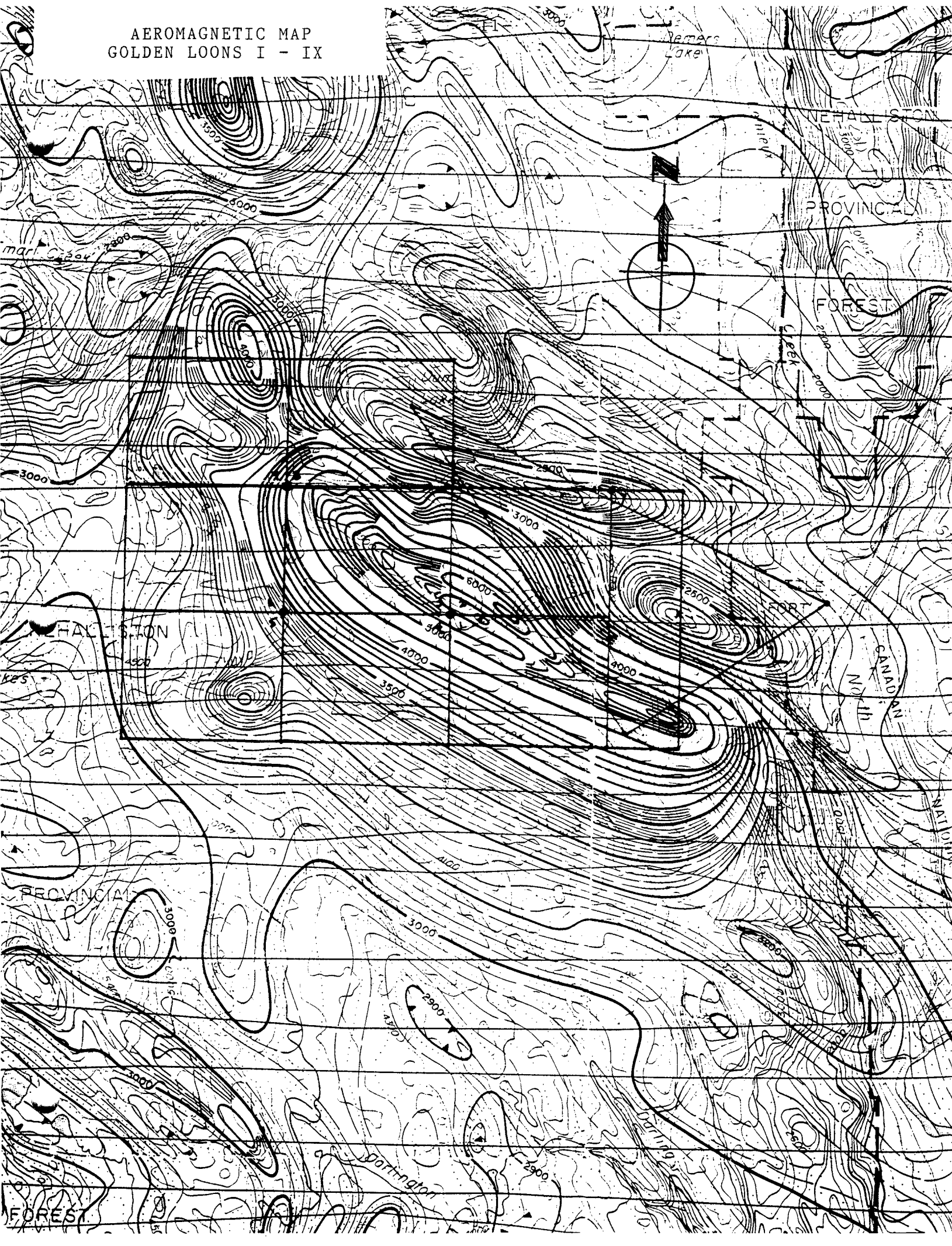
Property Outline

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); Allegheny 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: $\text{Olivine} + \text{H}_2\text{O} \rightleftharpoons \text{Serpentine} + \text{MgO (Ag)} + \text{Magnetite} + \text{H}_2 \uparrow$) there is a massive release of hydrogen (H_2) gas; and, if this was to combine with a gold sulfide solution the gold would precipitate out ($\text{AuS}^{\ominus} + \frac{1}{2} \text{H}_2 \rightleftharpoons \text{Au}^{\circ} + \text{HS}^{\ominus}$); 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 prospectingWhy they didn't analyze for gold or examine the anomalous 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.; VOE 1MO; 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, serpentinite, 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-metal 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 ESTIMATES 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
	<u>\$ 72,081.00</u>

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
	<u>\$102,300.00</u>

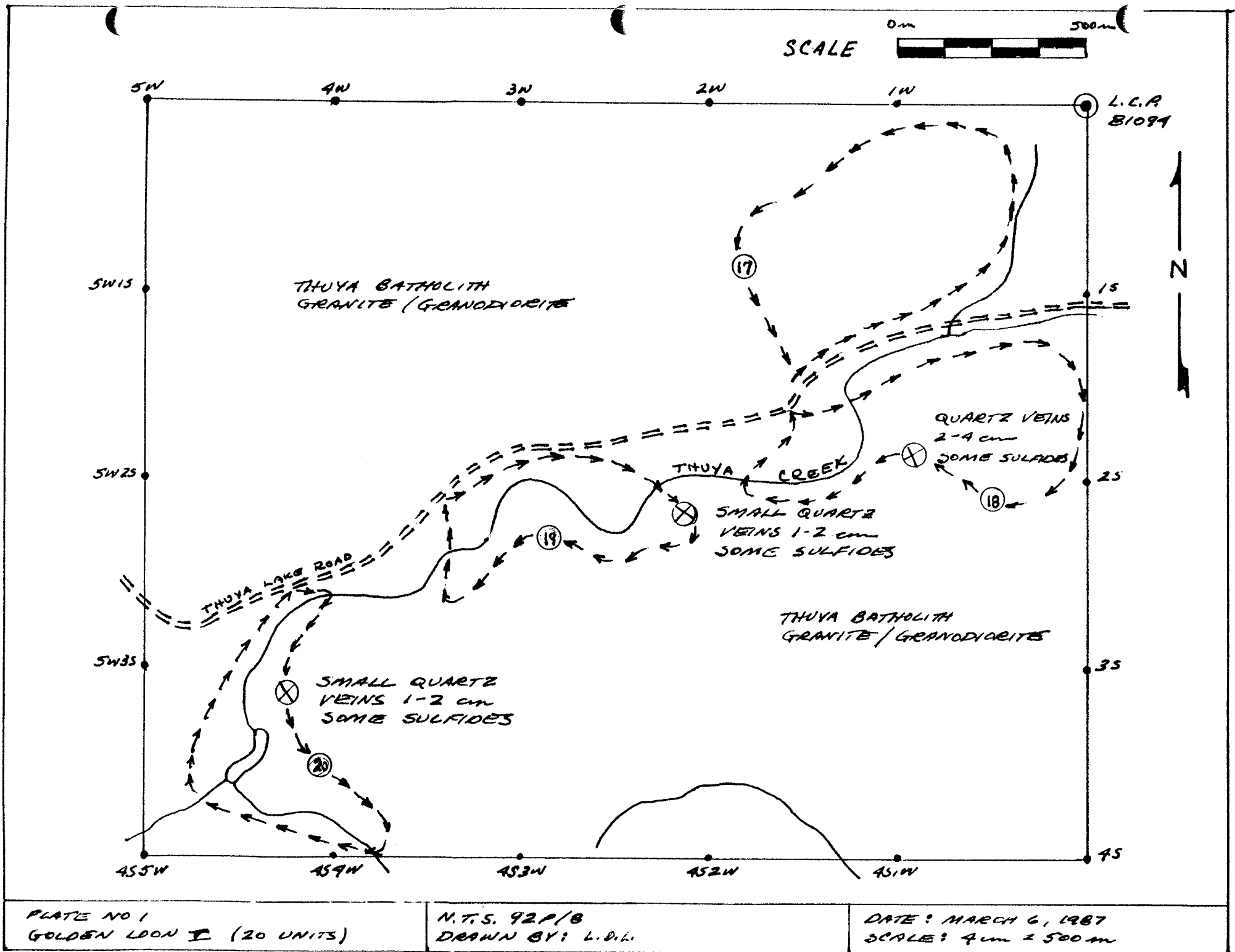
1. Geological Surveys, Map & Report Preparation & Related Costs	\$
2. Geophysical Surveys (line-kilometres)	
Ground	
Magnetic	\$
Electromagnetic	\$
Induced Polarization	\$
Radiometric	\$
Seismic	\$
Other	\$
Airborne	\$ _____
	\$
3. Geochemical Surveys (no. of samples analysed for _____)	
Soil	\$
Silt	\$
Rock	\$
Other	\$ _____
	\$
4. Drilling	
Surface <u>800 meters</u> m @ \$ <u>60.00/meter</u> = \$ <u>48,000.00</u>	
Underground _____ m @ \$ _____ = \$ _____	
	\$ 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 @ \$ _____ = \$ _____ x 25% = _____ \$	
_____ m @ \$ _____ = \$ _____ x 25% = _____ \$	
	\$
8. Other Exploration Costs (attach detailed schedules)	
See cost estimates for Program II... \$ <u>54,300.00</u>	
(enclosed)	\$
.....	\$ _____
	\$ 54,300.00
Total	\$102,300.00
	\$

WORK PERFORMED - (Field Notes June 17 - July 2, 1986)

- June 17: Arrived on the Golden Loon V via the Thuya Lake Resort road and traversed Easterly down Thuya Lake road and thence up a no-name creek and back to vehicle via a Westerly and Southerly traverse. Considerable amounts of underbrush and granodiorite boulders. No mineralization encountered in this traverse (see plate no. 1).
- June 18: Arrived via Thuya Lake road and traversed down Thuya creek. It was on our return traverse that we encountered several quartz stringers 2-4cm in width striking NNW with some sulfides (pyrite & chalcopyrite).
- June 19: Arrived via Thuya Lake road and traversed down Thuya creek once again. Again we encountered several quartz stringers 1-2cm in width, striking NNW. Some sulfides could be seen, but very hungry. Most of the area is covered with granodiorite float boulders (see plate no.1).
- June 20: Arrived via Thuya Lake road and traversed South to a small no-name swamp lake and in route discovered some more small quartz veins striking NNW. Once again there were some sulfides, pyrite mostly. Some float boulders of ultramafics were identified in addition to granodiorite. (see plate no. 1).
- June 21: Arrived via Montigney Lake road and traversed to the North end of Montigney Lake. Several enechelon quartz veins, striking NNW and containing pyrite, chalcopyrite, and galena. Continued around the lake very swampy, but little outcrop and considerable overburden (see plate no.2).
- June 22: Traversed to the end of no-name logging road and thence down no-name creek, swampy with little exposed rock. On the return traverse encountered some small quartz stringers in diorite with some sulfides (pyrite and dialcopyrite) striking in a NNW direction (see plate no. 2).
- June 23: Arrived via the same no-name logging road and traversed in a SE direction and then back up a ridge that overlooked the Southern most lake of a small chain of lakes in the NW corner of the Golden Loon VI. On this ridge we encountered some more quartz stringers in diorite with sulfides, but nothing to get excited about (see plate no. 2).
- June 24: Arrived via some logging road and traversed around the other two swamp lakes but no mineralization was encountered. Float boulders of granite granodiorite were most evident, some ultramafic floats (see plate no. 2).

WORK PERFORMED (Con't)

- June 25: Arrived on no-name logging road and traversed up the road in a NE direction and then back down the road. Large float boulders of the Thuya Batholith are visible. Two outcrops of diorite contained some small stringers of quartz with limited sulfides (see plate no. 3).
- June 26: Returned on the same logging road and traversed over to the most southerly lake in a chain of three small lakes on the Golden Loon IX. Several outcrops of ultramafic rock were identified with limited mineralization. Two quartz veins in ultramafics were located with pyrite, chalcopyrite, and galena (see plate no. 3).
- June 27: Arrived via logging road and traversed to the middle lake in the chain of three no-name lakes in the NE corner of the Golden Loon IX. Encountered more ultramafics with Quartz stringers 2-4cm containing pyrite, chalcopyrite and galena (see plate no. 3).
- June 28: Returned to no-name logging road and traversed to upper most lake in the chain of three. Fractures at the North end of the lake are quartz filled with sulfides of pyrite, chalcopyrite, and galena. We think the three lakes may represent the geological contact between the ultramafics and the Thuya Batholith granite (see plate no. 3).
- June 29: Arrived via Dum Lake road and traversed around Little Dum Lake. Encountered phyllite schist of the Nicola Group but no mineralization. Some float samples with chalcopyrite but no quartz veins in place. A lot of buckbrush and swamp (see plate no. 4).
- June 30: Arrived via Dum Lake road and traversed around the North end of Dum Lake. Two quartz veins 2-4cm were located with mineralization; pyrite, chalcopyrite, and galena. There seems to be more copper mineralization in this area, probably due to the geological contact of the ultramafics with the Nicola sediments (see plate no. 4).
- July 1: Returned to Dum Lake via Dum Lake road and traversed around the Southern end of Dum Lake. A quartz vein was located in ultramafics and contained pyrite. This area is very swampy and the mosquitos were vicious (see plate no. 4).
- July 2: We returned via the Dum Lake road and traversed along Dum creek to two small swamp lakes, in the Southwest corner of the Golden Loon VIII. From there we traversed around the lakes and back up Dum creek. No mineralization was encountered on this traverse (see plate no. 4).



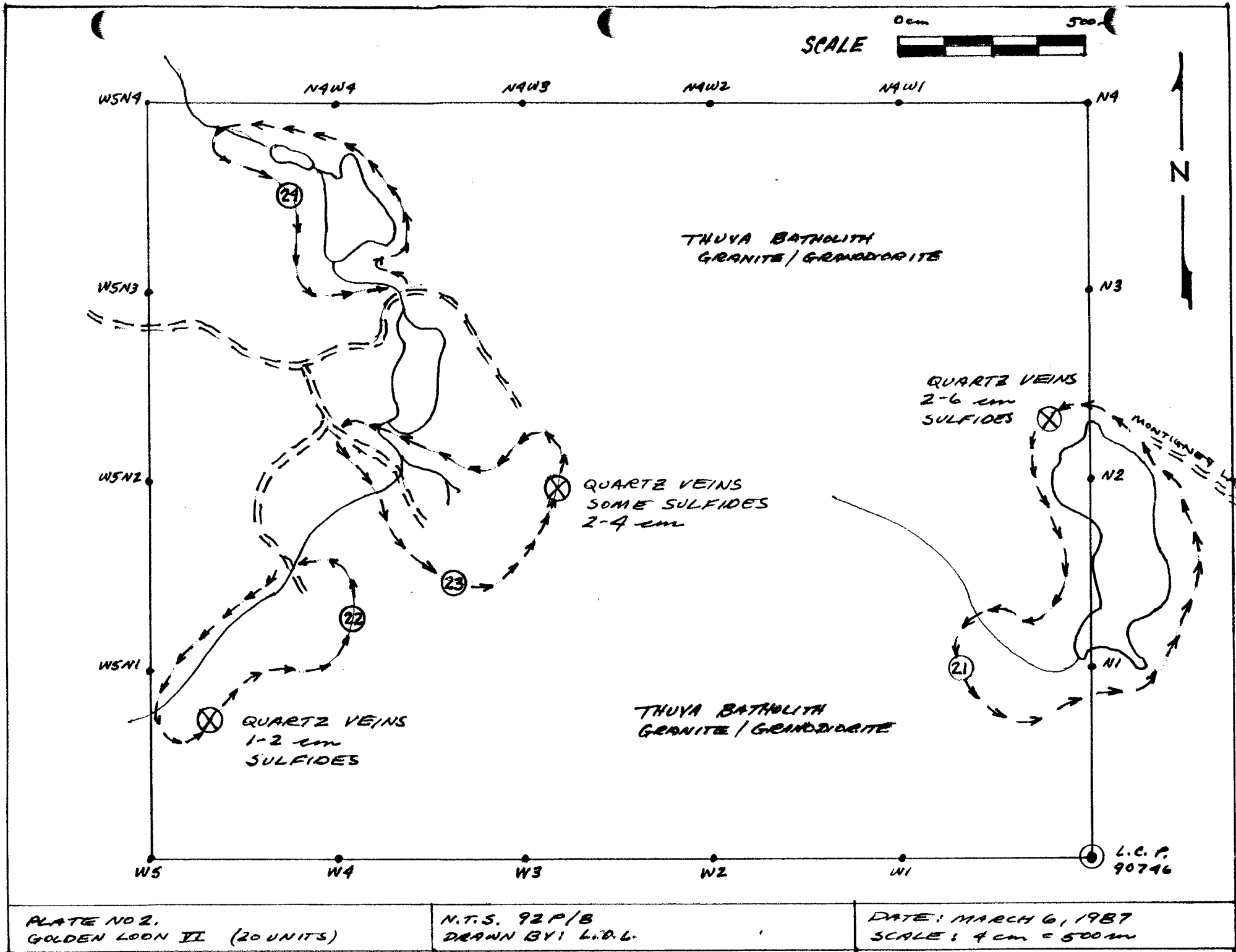


PLATE NO 2.
GOLDEN LOON II (20 UNITS)

N.T.S. 92P/B
DRAWN BY: L.D.L.

DATE: MARCH 6, 1987
SCALE: 4 cm = 500m

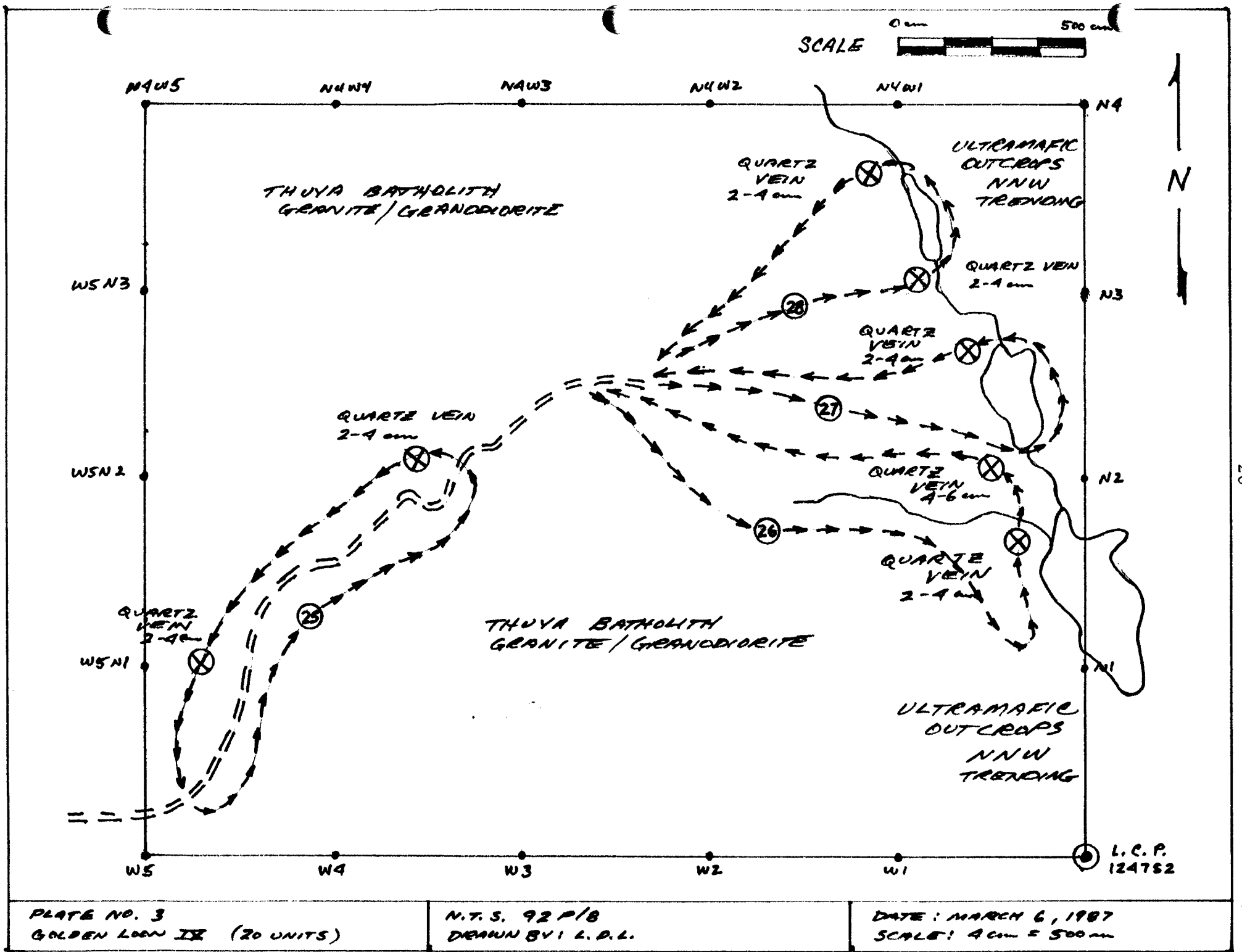


PLATE NO. 3
GOLDEN LOAN IX (20 UNITS)

N.T.S. 92 P/B
DRAWN BY: L. D. L.

DATE: MARCH 6, 1987
SCALE: 1 cm = 500 m

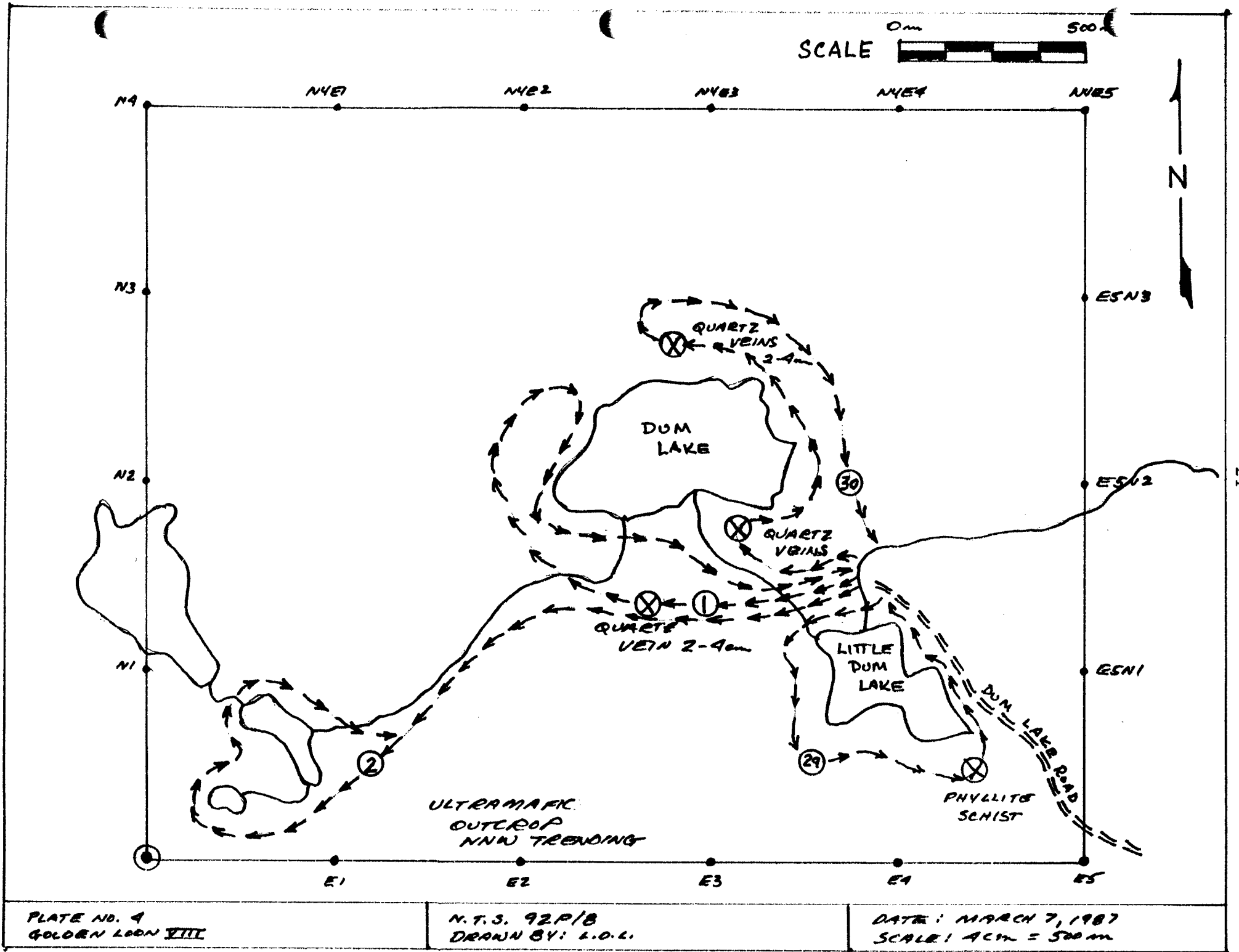


PLATE NO. 4
GOLDEN LOON VIII

N.T.S. 92P/B
DRAWN BY: L.O.L.

DATE: MARCH 7, 1987
SCALE: 1 CM = 500 M

STATEMENT OF EXPENDITURES FOR PROSPECTING
on the
GOLDEN LOONS V - VI - VIII - IX
June 17 - July 2, 1986

LABOUR

L. D. Lutjen 16 days at \$ 150/day.....	\$ 2,400.00
R. D. Lodmell 16 days at \$ 150/day.....	2,400.00

EXPENSES

Truck Rental (1850 km) at \$.45/km.....	832.00
Food and Accommodations 32 man days at \$ 45/day.....	1,440.00
Field Supplies (Flagging, Topofoil, Marker pens, Teflon tags etc.).....	485.00

REPORT PREPARATION

2 man days at \$ 150/day.....	300.00
Typing, stationary, reproduction, etc.....	150.00
Total Cost	<u>\$ 8,007.00</u>

Qualifications

I Larry D. Lutjen of R.R. 1, Box 12, Chase, B.C. VOE 1MO 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



[Signature]

Director / Dean

[Signature]

Registrar

[Signature]

Instructor

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. Prospected the 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 I 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

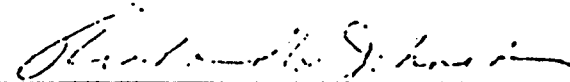
APRIL 16 to 30, 1983 - MESACHIE LAKE, B.C.

MAY 2, 1983

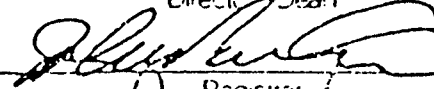
Dated at Nanaimo,
British Columbia, Canada



Malaspina
College



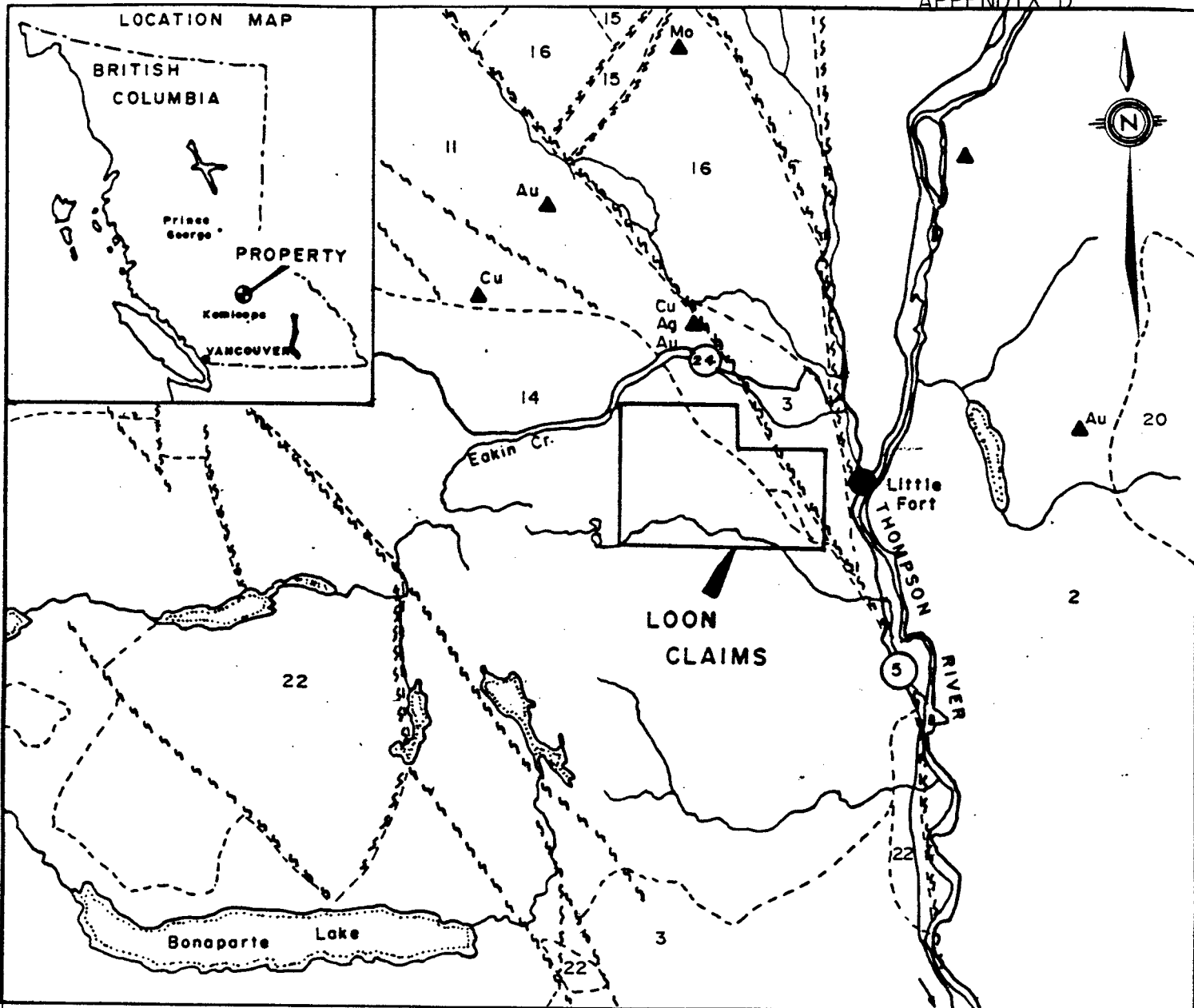
Director/Dean



Registrar

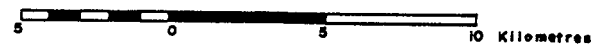


Instructor



LEGEND

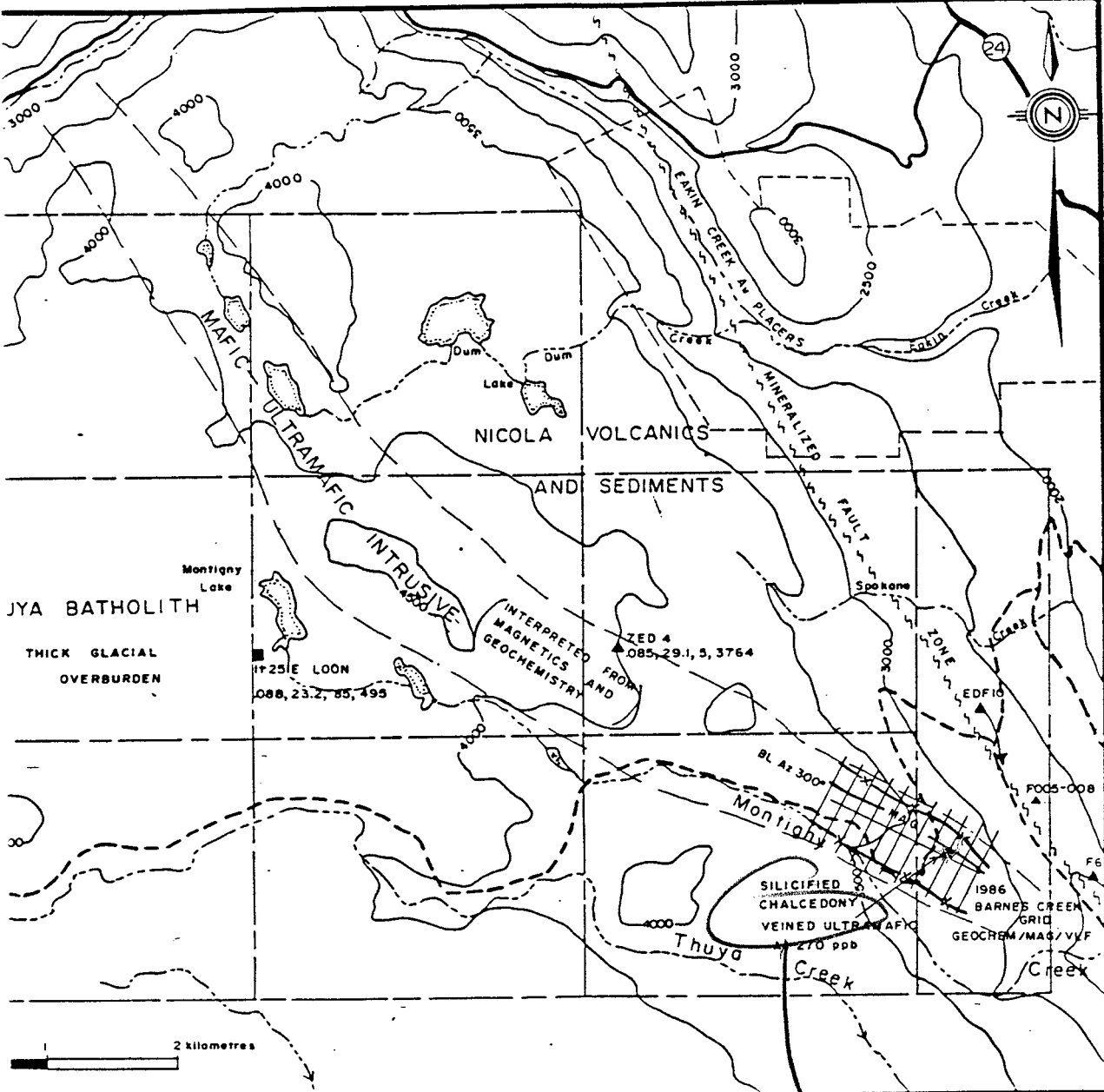
- 22 SKULL HILL FORMATION (TERTIARY)
Felsic to intermediate volcanics.
- 20 RAFT AND BALDY BATHOLITHS (Cretaceous)
Granitic intrusives.
- 16 INTERMEDIATE VOLCANICS WITH SEDIMENTS (JURASSIC)
- 14 THUYA BATHOLITH (TRIASSIC/JURASSIC)
Granodioritic intrusive.
- 11 NICOLA GROUP (TRIASSIC)
Intermediate volcanics 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.



- Mineral occurrences
- 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. I.



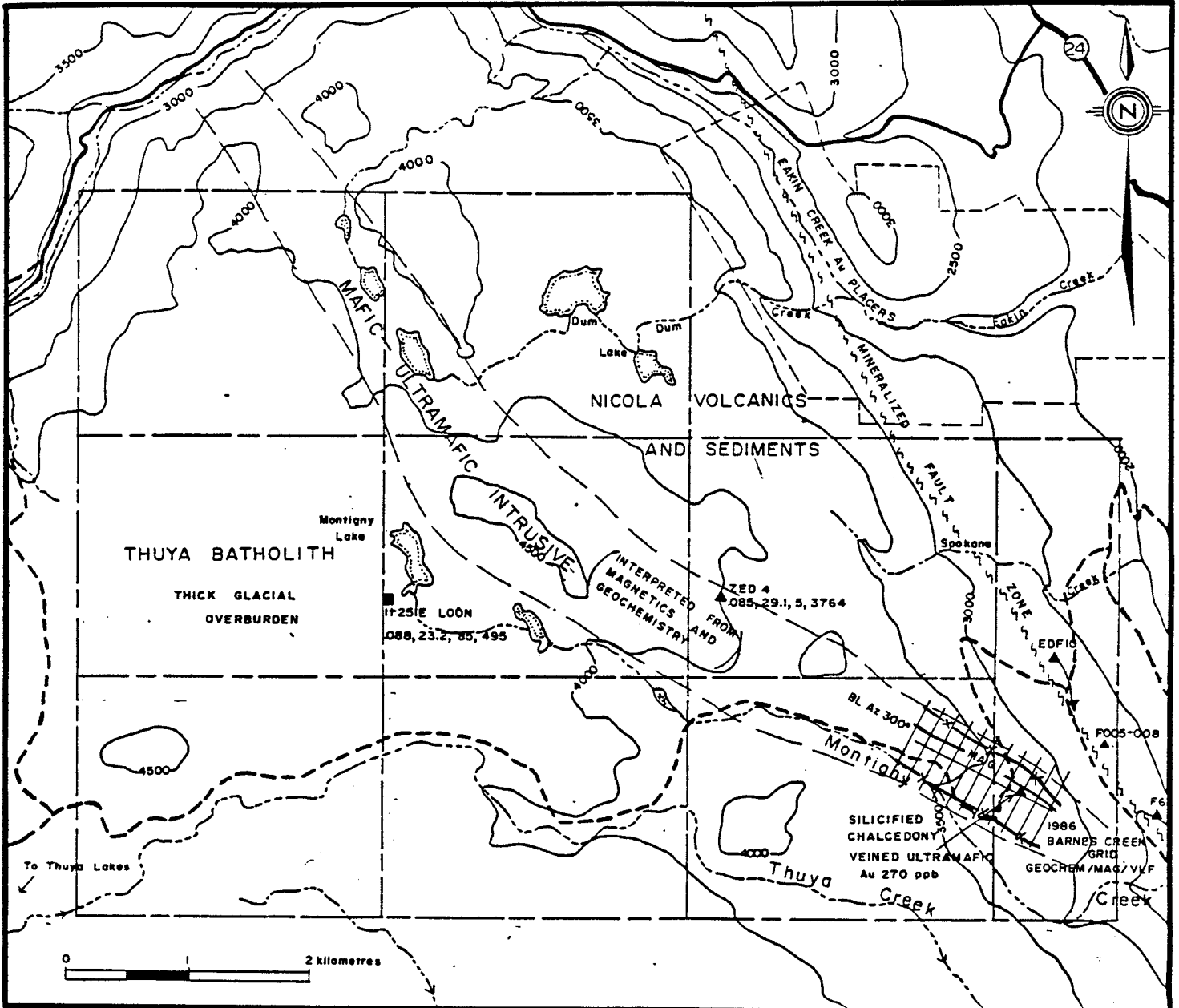
LEGEND

- MISTRY**
- 1, 23, 85, 495 Sample location Au, Ag, T, Ag, Cu, Pb (ppm)
- 106 Sample location (See Table I for values)
- SICS BARNES CREEK 1986 GRID**
- X— VLF Anomaly (Fraser Filtered) 1986
- Magnetic Anomaly Axis 1986
- Interpreted geological contact
- ~ LOON VII fault zone

303

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

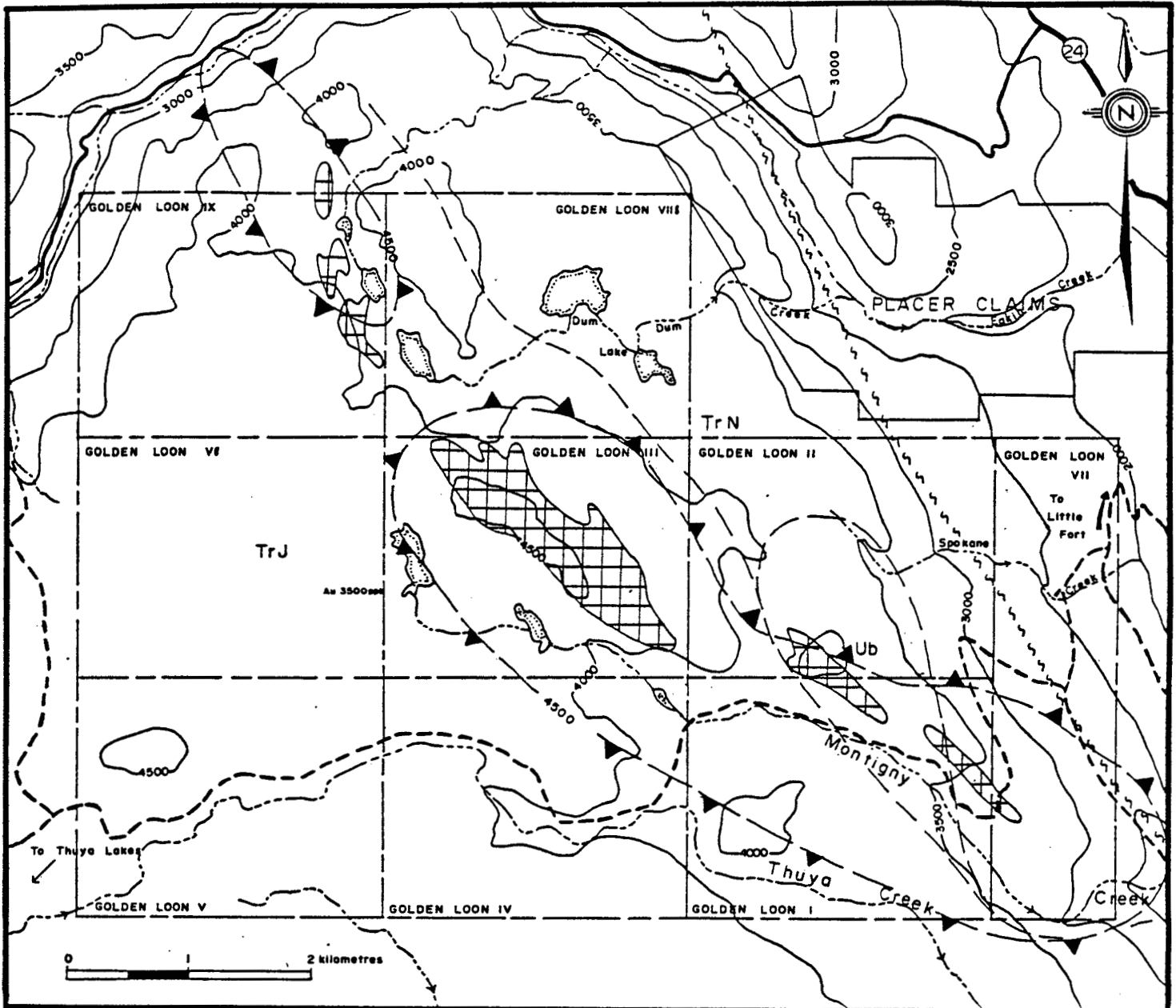


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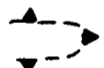
- GEOCHEMISTRY**
- ▲ 08, 23, 85, 495 Sample location Au, oz/T, Ag, Cu, Pb (ppm).
 - ▲ F006 Sample location (See Table 1 for values)
- GEOPHYSICS BARNES CREEK 1986 GRID**
- X-X-X- VLF Anomaly (Fraser Filtered) 1986
 - MAG- Magnetic Anomaly Axis 1986
- GEOLOGY**
- - - - Interpreted geological contact
 - ~ ~ ~ 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

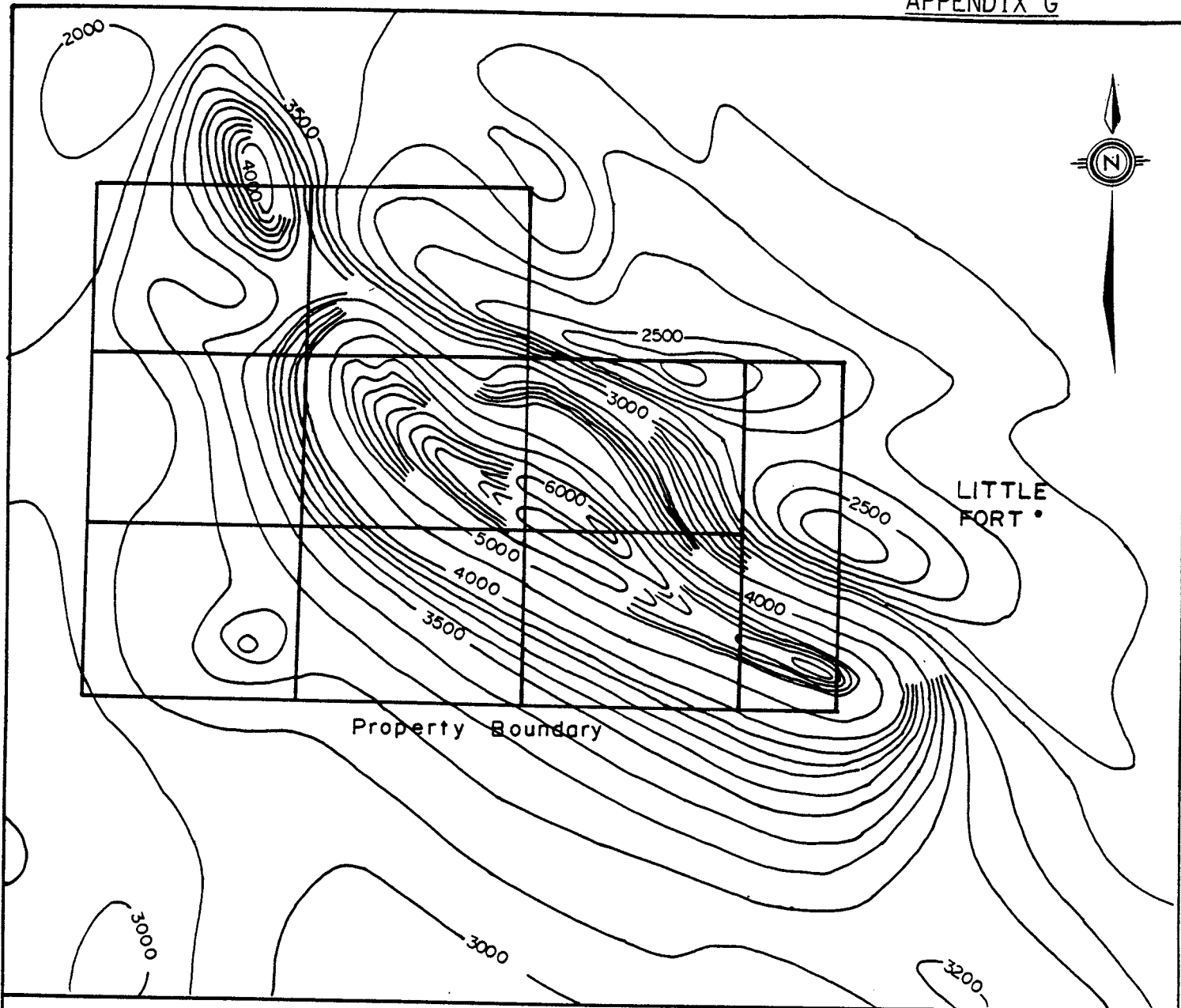
LITTLE FORT AREA, KAMLOOPS M.D.

Drawn by K.G.

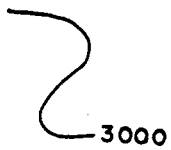
N.T.S. 92-P-8

Feb. 1987

Fig. 2



LEGEND



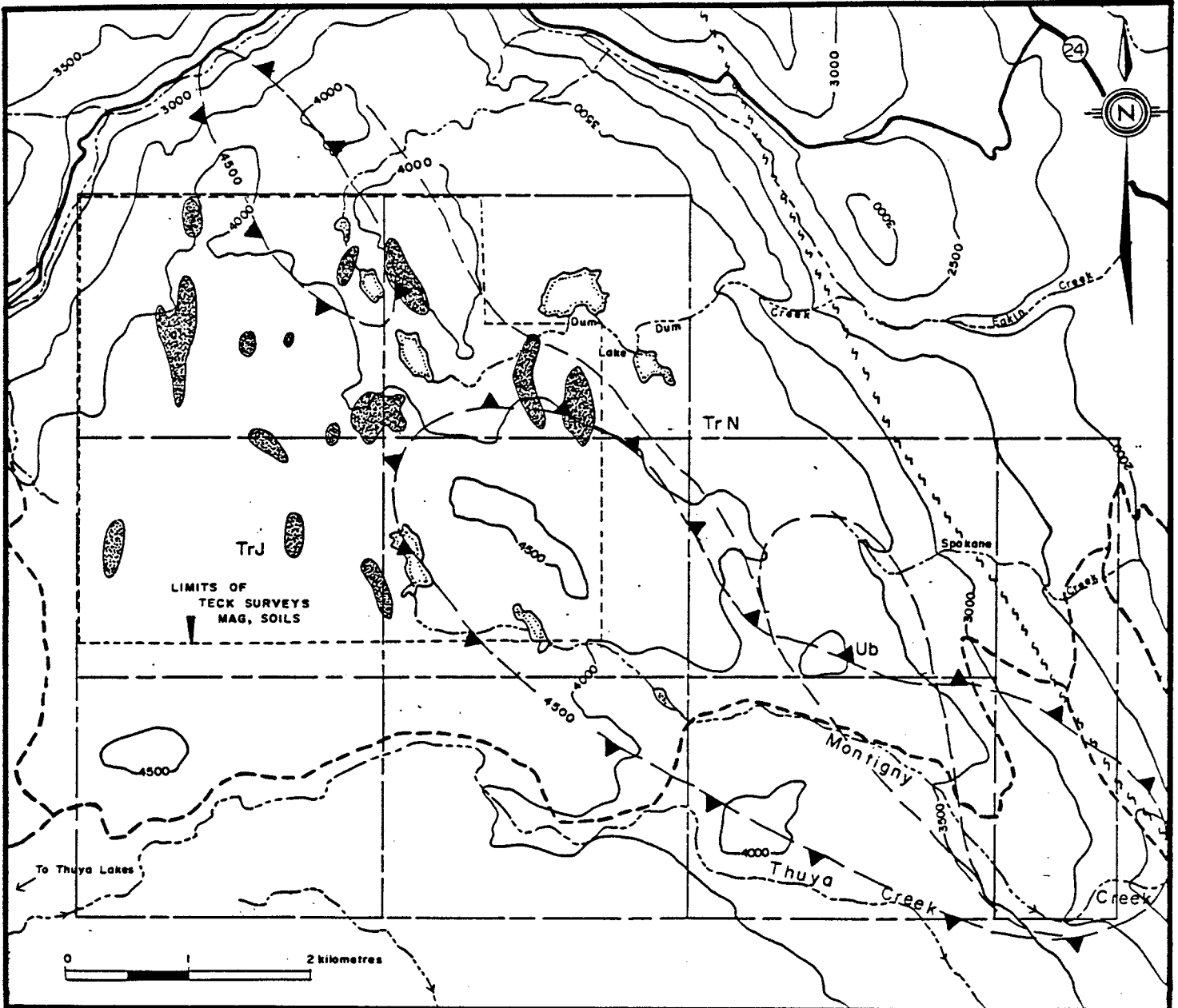
Magnetic contours in gammas.

From Chu Chua Sheet. GSC Series 5224 G



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

**KAMLOOPS
RESEARCH & ASSAY
LABORATORY LTD.**

B.C. CERTIFIED ASSAYERS

912 LAVAL CRESCENT — KAMLOOPS, B.C.
V2C 5P5
PHONE: (604) 372-2784 — TELEX: 048-8320

GEOCHEMICAL LAB REPORT

Barnes Creek Minerals Inc.
R. R. 1, Site 11
Box 36,
Chase, B.C. VOE 1MU
FILE NO. _____

ATT: Larry Lutjen

DATE October 17, 1984

ANALYST _____

FILE NO. G - 1212

AL NO.	IDENTIFICATION	ppm Ag	ppm Ni	ppm Cr	ppm Co
1	EX-1 7	.9	1380	95	88
2	15	.2	1660	172	93
3	29	.2	1275	470	99
4	EX-2 4	.2	1512	745	54
5	12	.1	2106	71	82
6	18	.1	1400	595	77
7	EX-3 2	.1	1174	60	95
8	11	.1	1831	73	82
9	23	.1	1742	124	93
Ag, Ni, Cr, and Co Method: -80 Mesh					
Hot Acid Extraction					
Atomic Absorption					

*NOTE: BACKGROUND Ni = 40-50 p.p.m.
Ag = 90-100 p.p.m.*

SPECTROGRAPHIC REPORT

1	SI > 10.0 AI 1.0 Mg 0.1 Ca 0.1 Fe 1.2								2	Si Al Mg Ca Fe								3	Si Al Mg Ca							
	Pb T Cu T Zn Mn Co Ag T V TIT NI T									Pb Cu Zn Mn Ag V Ti Ni									Pb Cu Zn Mn Ag V Ti							
Co Na K W								Co Na K W								Co Na K W										
TRACE: Mo, Cr																										
4	Si Al Mg Ca Fe								5	Si Al Mg Ca Fe								6	Si Al Mg Ca							
	Pb Cu Zn Mn Ag V Ti Ni									Pb Cu Zn Mn Ag V Ti Ni									Pb Cu Zn Mn Ag V Ti							
Co Na K W								Co Na K W								Co Na K W										

X-RAY DIFFRACTION REPORT AND COMMENTS

MINISTRY OF ENERGY, MINES
AND PETROLEUM RESOURCES
KAMLOOPS, B.C.

Rec'd. OCT 16 1985

KEY

COLUMNS 28-31

UMFC ultramafic	GNSS greenstone	TRCT trachyte	SKRN skarn	SNDS sandstone
ANDS andesite	MNZN monzonite	TUFF tuff	GOUG gouge	SHLE shale
BSLT basalt	OBSD obsidian	AMPB amphibolite	ARGL argillite	SLSN siltstone
CRBN carbonate	PNLT phonolite	CLCC calc silicate	CHRT chert	MRLZ mineralization
DCIT dacite	OZPP quartz porphyry	GNSS gneiss	COAL coal	MVSP massive sulphide
DORT diorite	RYLT rhyolite	MRBL marble	DLMT dolomite	DISS disseminated
GBBR gabbro	SRPN serpentinite	PLLT phyllite	LMSN limestone	SCKK stockwork
GRNT granite	SNKN shonkinite	SCST schist	MARL marl	VEIN vein
GRDR granodiorite	SYNT syenite	HRFL hornfels	QRTZ quartzite	ALRZ alteration

COLUMNS 32-33

04 Proterozoic	12 Cambrian	21 Mississippian	34 Jurassic
05 Helikian	14 Ordovician	22 Pennsylvanian	36 Cretaceous
06 Hadrynian	16 Silurian	24 Permian	40 Cenozoic
10 Paleozoic	18 Devonian	30 Mesozoic	42 Tertiary
11 Prot.-Paleozoic	20 Carboniferous	32 Triassic	44 Quaternary
			50 Unknown

COLUMN 34

SAMPLE TYPE
1 Single grab sample
2 Channel/chip
3 Composite sample
4 Drill core
5 Talus or transported
6 Soil
7 Silt

COLUMN 35

% SULPHIDE
0 < 0.5
1 0.5-1
2 1-10
3 10-50
4 > 50

COLUMNS 36-43

COLUMNS 44-80

ANALYTICAL METHOD

AA	ATOMIC ABSORPTION
AH	HYDRIDE GENERATION
FA	FIRE ASSAY
ES	EMISSION SPEC
XR	X-RAY FLUORESCENCE
WC	WET CHEMICAL
CL	COLORIMETRIC
CV	COLD VAPOUR

SAMPLE PREPARATION

W	TUNGSTEN CARBIDE
C	CERAMIC

TUNGSTEN CARBIDE

SPECTROGRAPHIC REPORT

1	Pb T Cu T Zn Mn Ag V TIT NI	Si Al Mg Ca Fe	2	Pb Cu Zn Mn Ag V TI NI	Si Al Mg Ca Fe	3	Pb Cu Zn Mn Ag V TI
	Co Na K W			Co Na K W			Co Na K W
TRACE: Mn, Sr							
4	Pb Cu Zn Mn Ag V TI NI	Si Al Mg Ca Fe	5	Pb Cu Zn Mn Ag V TI NI	Si Al Mg Ca Fe	6	Pb Cu Zn Mn Ag V TI
	Co Na K W			Co Na K W			Co Na K W

X-RAY DIFFRACTION REPORT AND COMMENTS

MINISTRY OF ENERGY, MINES
AND PETROLEUM RESOURCES
KAMLOOPS, B.C.

Rec'd. OCT 16 1985

KEY

COLUMNS 28-31

UMFC ultramafic	GRNS greenstone	FRCT trachyte
ANDS andesite	MNZN monzonite	TUFF tuff
BSLT basalt	OBSD obsidian	AMPB amphibolite
CRBN carbonatite	PNLT phonolite	CLCC calc-silicate
DCIT dacite	QZPP quartz porphyry	GNSS gneiss
DORT diorite	RYLT rhyolite	MRBL marble
GBBR gabbro	SRPN serpentinite	PLLT phyllite
GRNT granite	SNKN shonkinite	SCST schist
GRDR granodiorite	SYNT syenite	HRFL hornfels

COLUMNS 32-33

04 Proterozoic	12 Cambrian	21 Mississippian	34 Jurassic
05 Halikian	14 Ordovician	22 Pennsylvanian	36 Cretaceous
06 Hadrynian	16 Silurian	24 Permian	40 Cenozoic
10 Paleozoic	18 Devonian	30 Mesozoic	42 Tertiary
11 Prot.-Paleozoic	20 Carboniferous	32 Triassic	44 Quaternary
			50 Unknown

COLUMNS 36-43

COLUMNS 44-80

COLUMN 34

SAMPLE TYPE
1 Single grab sample
2 Channel/chip
3 Composite sample
4 Drill core
5 Talus or transported
6 Soil
7 Silt

COLUMN 35

% SULPHIDE
0 <0.5
1 0.5-1
2 1-10
3 10-50
4 >50

ANALYTICAL METHOD

AA	ATOMIC ABSORPTION
AH	HYDRIDE GENERATION
FA	FIRE ASSAY
ES	EMISSION SPEC
XR	X-RAY FLUORESCENCE
WC	WET CHEMICAL
CL	COLORIMETRIC
CV	COLD VAPOUR

SAMPLE PREPARATION

W	TUNGSTEN CARBIDE
C	CERAMIC

ASSAY CERTIFICATE

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR NM, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, V, SI, ZR, CE, SM, Y, ND AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1-ROCKS P2-SOILS -60 MESH AU+ ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: NOV 6 1985 DATE REPORT MAILED: *Nov. 13/85* ASSAYER: *T. Saundry* DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

Golden Loons FILE # 85-3040

PAGE 1

SAMPLED	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Hg	Sr	Cd	Gd	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	M	Au ⁺	Au ⁰
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH
4N+7SE	2	11	32	39	.2	4	5	379	1.89	2	5	ND	2	41	1	2	4	40	.73	.07	5	8	.51	79	.08	4	.56	.05	.28	1	11	-
N3+2SE	2	12	13	46	.1	5	7	506	2.21	2	5	ND	4	84	1	2	8	40	.65	.10	7	7	.67	49	.11	5	.83	.04	.12	1	6	-
1N+2SE LOON	1	85	195	16	23.7	10	5	199	1.11	3	5	3	1	24	1	2	2	10	.39	.03	3	3	.27	29	.01	2	.20	.02	.06	1	3500	.088
NO+2SV LOON	1	9	8	16	.1	2	3	339	.93	2	5	ND	2	54	1	2	2	16	.62	.03	4	4	.20	32	.05	5	.29	.03	.10	1	4	-
4S+00V	9	8	7	23	.1	1892	49	658	3.51	2	5	ND	1	2	1	2	2	1	.04	.01	4	78	20.39	3	.01	9	.02	.01	.01	1	2	-
14+1.0	8	14	3	19	.1	1550	69	880	3.82	2	5	ND	1	8	1	2	2	18	.65	.01	4	722	19.20	6	.01	16	.03	.01	.01	1	1	-
110+1.7	4	17	10	15	.1	986	56	842	3.98	2	5	ND	1	8	1	2	10	24	.07	.01	2	195	8.53	36	.01	2	.05	.01	.01	1	1	-
1E8-1	5	10	3	8	.1	1042	54	659	2.76	2	5	ND	1	4	1	2	2	6	.11	.01	2	167	11.79	6	.01	2	.02	.01	.01	1	1	-
2E8-2	8	5	3	20	.1	1635	78	861	4.34	2	5	ND	1	2	1	2	2	1	.02	.01	4	66	20.29	12	.01	2	.02	.01	.01	1	1	-
2E8-3	2	17	84	34	.5	24	9	1265	3.82	3	5	ND	4	162	1	2	8	50	3.01	.12	6	9	1.16	176	.04	2	.16	.05	.08	1	37	-
2E8-4	2	5	1764	2	29.1	14	1	168	.39	4	5	3	1	4	1	2	19	1	.00	.01	2	3	.13	25	.01	3	.01	.01	.01	1	2850	.085
N-1	6	301	1469	25	10.4	7	11	572	1.26	2	5	ND	2	183	1	2	24	19	3.16	.09	6	5	.40	261	.02	3	.33	.07	.17	1	100	-
N-2	3	26	59	37	.5	11	7	375	2.07	2	5	ND	4	66	1	2	5	43	.86	.08	8	8	.62	123	.10	4	.61	.06	.35	1	38	-
STD C/AU-0.5	20	58	37	136	7.6	65	28	1120	3.94	39	19	7	34	47	17	15	24	57	.48	.14	30	59	.88	172	.07	40	1.71	.06	.11	13	490	-

UM?

Golden Loons File W HS-3040

PAGE 2

SAMPLE	Hg	Cd	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Tl	Sr	Cd	Sb	Bi	V	Ca	P	La	Er	Hg	Ba	Te	B	Al	Mo	Li	M	Am
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	1	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	1	1	PPM	PPM	1	PPM	1	PPM	1	1	1	PPM	PPM
OH-25E	10	50	2	12	.2	10	5	626	.45	2	5	ND	1	121	1	2	2	8	2.47	.15	2	8	.08	127	.01	3	.36	.02	.01	1	1
OH-25M	2	42	15	49	.1	15	10	293	3.92	3	5	ND	3	45	1	3	5	83	.30	.03	5	35	.78	65	.20	4	1.46	.01	.07	1	24
OH-50M	13	75	15	26	.1	19	29	1081	15.17	11	5	ND	10	46	1	2	5	142	.46	.07	14	36	.27	144	.08	7	1.24	.01	.03	1	1
2M-75E	1	2	2	5	.1	5	1	25	.52	2	5	ND	1	54	1	2	2	2	1.08	.10	2	7	.07	57	.01	2	.08	.02	.03	1	1
1b-6+5.5	1	245	21	26	1.9	764	18	1361	1.73	3	5	ND	1	90	1	2	6	33	2.02	.07	11	115	1.34	209	.05	9	.94	.03	.06	1	4
BL-0M	3	23	21	55	.1	15	10	204	5.62	2	5	ND	4	35	1	2	2	107	.37	.07	6	30	.59	85	.18	2	1.58	.01	.04	1	18
STD C/AM-0.5	21	59	41	132	7.2	68	29	1144	3.91	37	18	8	34	51	16	14	21	57	.48	.14	37	56	.88	172	.07	39	1.71	.06	.10	12	500

APPENDIX J