

ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

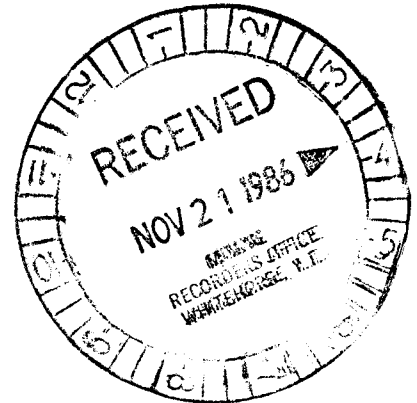
CONSULTING GEOLOGICAL ENGINEERS

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09 1887

SILVERQUEST RESOURCES LTD.
GEOCHEMICAL AND GEOLOGICAL SURVEYS
LOON LAKE PROPERTY, YUKON
(Loon 1-16 Claims)



Whitehorse Mining District
NTS 105E/1
Latitude 61°12'N; Longitude 134°12'W



November, 1986

by

R.C. Carne, M.Sc.

W.H. Halleran, B.Sc.

Work done between July 3 - July 14, 1986

09 1887

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 3600.00.

DA Emmond

for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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CONCLUSIONS AND RECOMMENDATIONS

In 1986, Silverquest Resources Ltd. explored its wholly owned 16 claim Loon Lake property, south-central Yukon Territory. The work was performed between July 3 and July 14 and consisted of geochemical grid soil sampling, geological mapping and prospecting to evaluate the extent of known gold mineralization. Six hundred and thirteen soil samples were collected at 30 m spacing on cut lines spaced 120 m apart. Every second soil sample was analyzed for gold and the remainder were stored in Archer, Cathro's Whitehorse warehouse.

Previous work on the property has outlined several areas of gold and copper mineralization. These lie along a 1.5 km long topographic linear which probably represents a major fault zone. Mineralization occurs in quartz veining associated with pervasive silicification of Upper Paleozoic meta-sedimentary country rocks. Best gold values were obtained from pieces of chalcopyrite-bearing quartz veins collected from several old adit dumps dating back to the beginning of the century. Assays of selected specimens range up to 1.3 oz/ton gold while representative pieces of quartz vein material grade about 0.16 oz/ton gold.

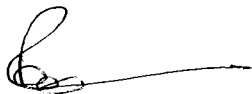
Results of the 1986 geochemical survey are largely inconclusive. The background level for gold in soils on the property is very low, being less than the one part-per-billion lower detection limit of the FA-NAA analytical technique used. Furthermore, several isolated bedrock exposures with anomalously high gold content, as well as the area of the well mineralized quartz veins intersected underground, are not reflected by anomalous gold values in nearby soil samples. This probably results from a thicker glacial

till cover on the property than field observations initially indicated. Three moderate to strong gold (up to 1020 ppb) anomalies occur in an area of relatively thin overburden cover along the south end of the soil grid. These are located down slope of Induced Polarization geophysical anomalies along probable fault zones associated with known mineralization.

Further work is warranted to evaluate the extent of high grade gold mineralization intersected by the now inaccessible underground workings. This should consist of bulldozer trenching guided by VLF-Em surveys to aid in outlining mineralized fault zones beneath the glacial till cover.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



R.C. Carne, M.Sc.



W.H. Halleran, B.Sc.

INTRODUCTION

The Loon Lake property (Loon 1-16 claims) was staked in December, 1985 by Archer, Cathro & Associates (1981) Limited to cover a known copper-gold showing. The property was purchased by Silverquest Resources Ltd. in March, 1986.

The exploration program was carried out between July 3rd and July 14th and consisted of geochemical grid soil sampling, geological mapping and prospecting to evaluate the extent of known gold mineralization. Personnel consisted of crew chief W. Halleran and field crew K. Sax, B. Wengyznowski, D. McBeth and P. Gilchrist.

PROPERTY, LOCATION AND ACCESS

The Loon Lake property is located 72 km northeast of Whitehorse at the northern end of Upper Loon Lake at latitude 61°12' and longitude 134°12' on NTS map sheet 105E/1 (Figure 1). The property consists of 16 full sized claims (Figure 2) as follows:

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Loon 1-16	YA94059-YA94075	March 12, 1989

*expiry date listed assumes acceptance of assessment credits applied for with this report.

Access in 1986 was from Whitehorse by float-equipped, fixed-wing aircraft to a campsite on the northwest side of Upper Loon Lake. A winter road between the Livingstone Creek placer gold camp and Whitehorse passes 16 km north of the property.

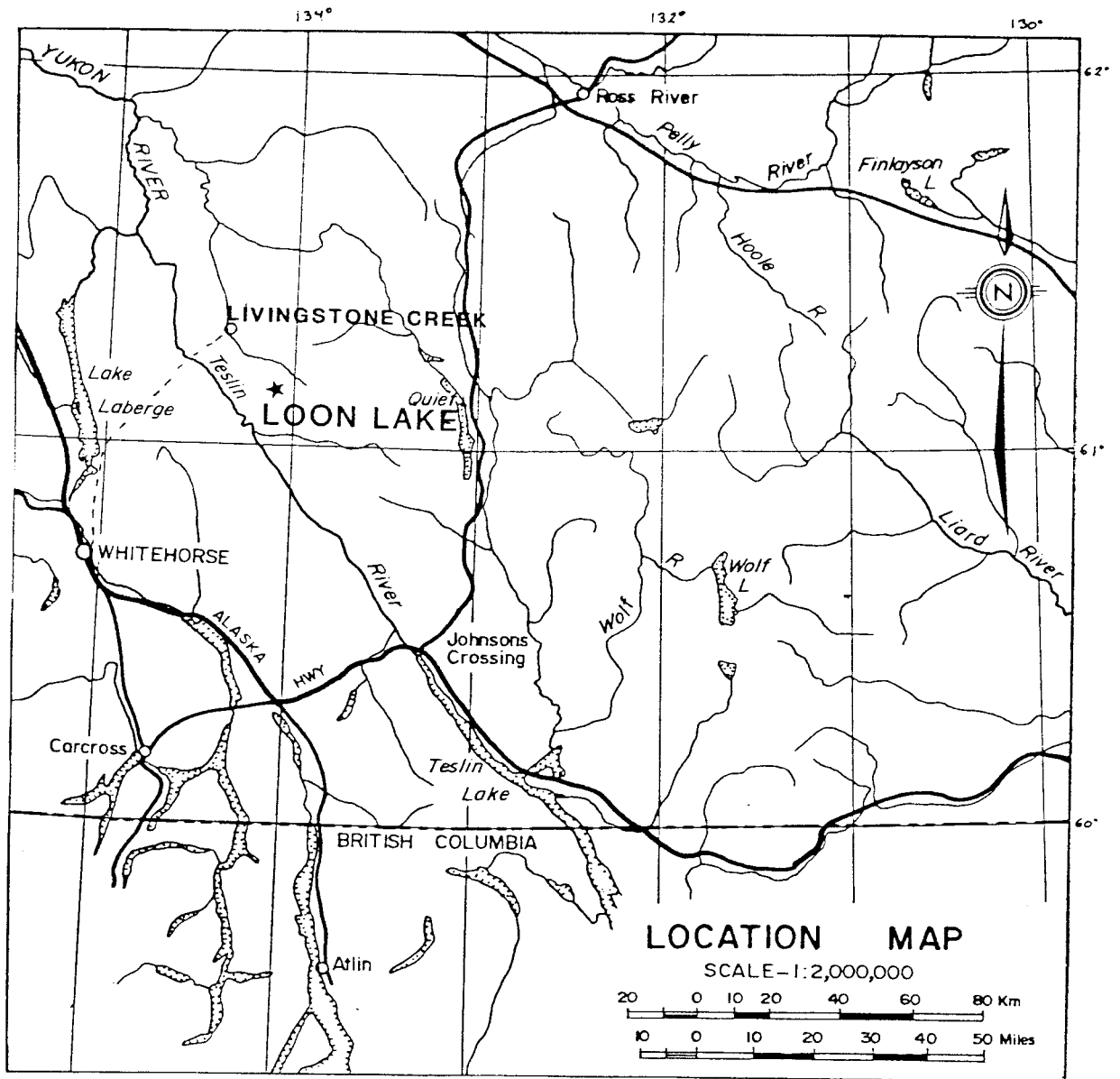


Figure 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LOON LAKE

SILVERQUEST RESOURCES LTD.

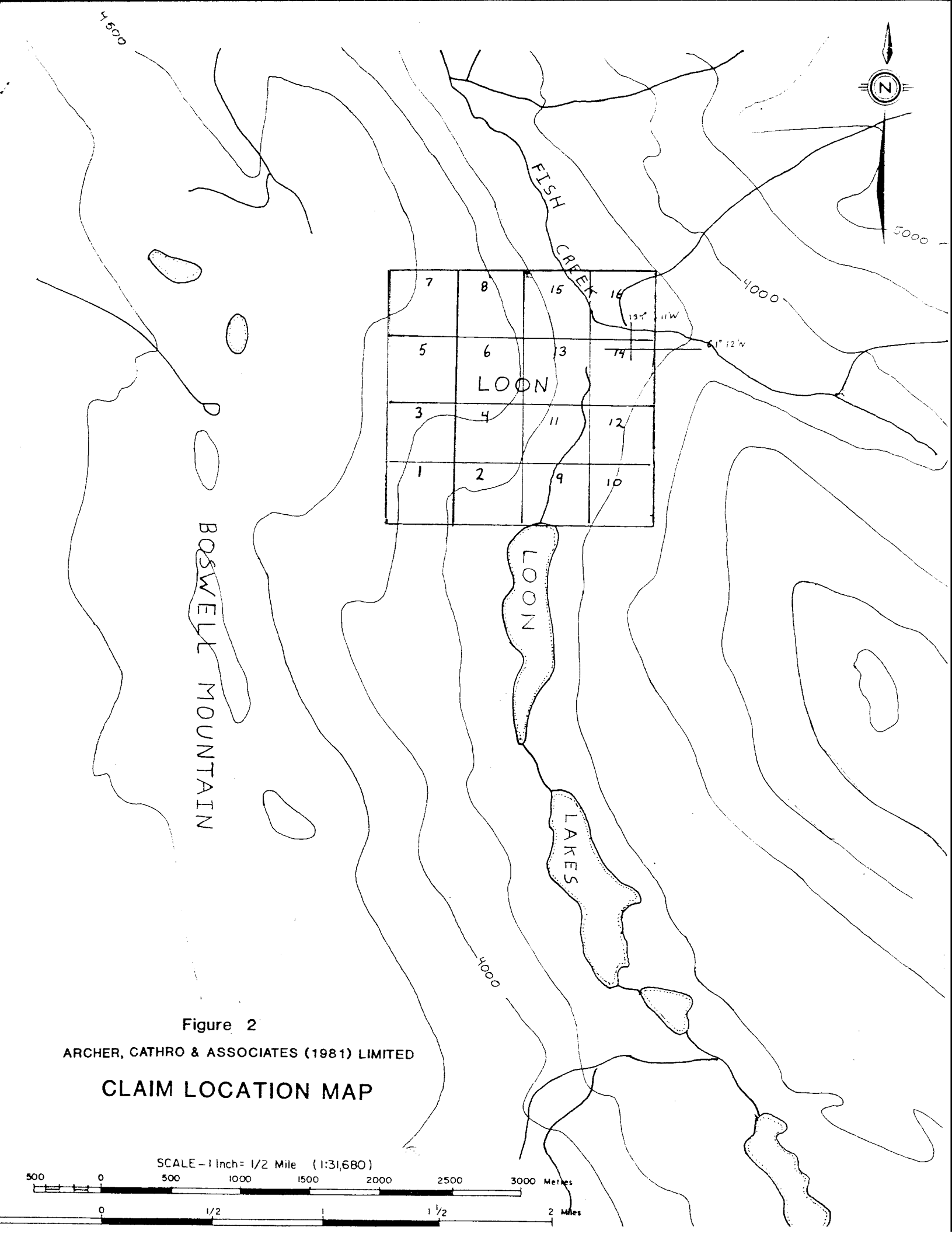
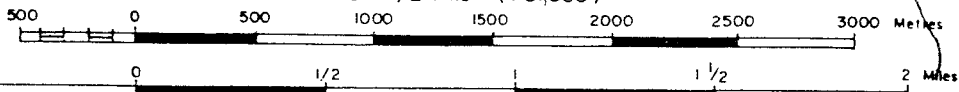


Figure 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATION MAP

SCALE - 1 inch = 1/2 Mile (1:31,680)



PHYSIOGRAPHY

The property straddles a north-northwest trending, steep sided, flat topped ridge. Elevations range between 950 and 1350 m. The top of the ridge is vegetated with stands of balsam and spruce with butts up to 30 cm. The western side of the ridge is heavily timbered with spruce, giving way to a relatively flat valley bottom vegetated with black spruce swamp. The eastern slope of the ridge forms one side of a U-shaped valley containing Loon and Fish Creeks. It is sparsely treed by balsam and jack pine with a thick understorey of slide alder and poplar. Most of this slope is underlain by blocky, moss-covered talus with small scree slopes and isolated cliffs. The slope is unstable with a number of recent small landslides evident. Fish Creek valley is flat bottomed, grassy to the north and swampy near the lake, with large pines and poplars scattered throughout. Loon Creek valley is flat bottomed and vegetated with spruce swamps.

Soil profiles are well developed on the ridge top while on the western slope the A soil horizon is up to 24 cm deep. The whole property is covered by a mantle of glacial material varying from a few centimetres to several metres thick. Volcanic ash from the 1230 year old eruption of Mt. Natazat, southeast Alaska, occurs as thin, discontinuous deposits within the A soil horizon.

HISTORY

The Loon Lake property has had a long history of work dating back to the turn of the century, with earliest prospecting directed at the gold potential. Between 1901 and 1910, prospectors drove a number of adits up to 115 m long in and around the main showing area. From 1932 to 1948 John Stenbraten drove a 5 m adit and hand trenched the main showing.

In the early 1950's through to the late 1970's, the area was explored for copper. Between 1953 and 1956, geologist D.J. Kidd did some further trenching and 40 m of drilling on and peripheral to the main showing. During 1969-1978, P.H. Sevensma and Quested Mining Corp. carried out geochemical grid soil sampling, geological mapping, geophysical (Induced Polarization) surveys and hand trenching across the property. From 1979 to 1984, Sevensma held the ground, paying cash-in-lieu of assessment work before allowing the claims to lapse in 1984.

Archer, Cathro briefly investigated the property in 1984, when a number of specimens of mineralized quartz vein material from the adit dumps were collected for assay.

GEOLOGY AND MINERALIZATION

Geology of the Loon claims is shown on Figure 4. Detailed descriptions of bedrock units are given in Table 1 on the following page. A comprehensive interpretation of the detailed property geology is not possible due to heavy vegetation and overburden cover. The primary bedrock sequence consists of interlayered, metamorphosed clastic sedimentary and volcanic rocks, mostly quartzite, calcareous and non-calcareous schist and greenstone. These are grouped by the GSC into the Lower to Middle Pennsylvanian Boswell Formation. These layered rocks are intruded by scattered mafic and felsic dykes of unknown age.

The most salient geological feature of the Loon property is a linear gully which extends in a north-northeast direction for a 1.5 km distance across the claim group. This trend is slightly oblique to the regional strike of the host rocks and the linear probably represents a major fault zone. This feature as well as several other nearby parallel linears is coincident with Induced Polarization anomalies resulting from earlier geophysical surveys.

Copper mineralization, generally as disseminated chalcopyrite, occurs within zones of silicification of country rock. The Main Showing is located at the south end of the prominent topographic linear where it is well exposed on a steep hillside. It consists of a 30 m wide zone of silicified country rock crosscut by several generations of quartz veining containing chalcopyrite and pyrite with minor galena and secondary copper minerals. Overall gold and copper content of the Main Zone outcrop is fairly low with chip samples of the best intervals taken in 1984 grading 0.04 oz/ton gold and 0.01% copper over 2.4 m and 0.01 oz/ton gold and 0.3% copper over 18 m.

Table I

TABLE OF FORMATIONS

<u>Unit</u>	<u>Description</u>
1	felsite dyke; white, fine-grained, blocky
2	mafic dyke; partially to totally serpentized, calcareous
3	dark grey weathering, grey-green quartz-chlorite-sericite schist interbedded with light grey, fine- to medium-grained massive quartzite with phyllitic parting; beds up to 80 cm wide but usually smaller; rarely calcareous; small scale open folds may be present
4	grey weathering, light to dark grey, very fine-grained, banded, limy quartzite with phyllitic parting interbedded with grey-green limy chlorite-sericite schist, sometimes with white calcite lenses; small scale open folds may be present (a) predominantly limy schist (b) predominantly limy quartzite
5	black-grey weathering, non-calcareous Unit 4 (a) predominantly schist (b) predominantly quartzite
6	brown weathering, tan to brown, limy quartz-sericite schist with fine phyllitic laminations, interbedded with coarse-grained, massive to sublaminated, brown limy quartzite (a) predominantly limy schist (b) predominantly limy quartzite
7	grey weathering, light grey-green quartz-chlorite-sericite schist with white quartz sweats; interbedded with dark grey, massive medium-grained quartzite
8	rusty tan weathering, medium-grained, light grey to brown brecciated quartzite
9	grey to black weathering, medium-grained, brown-grey to black, laminated to massive, meta-greywacke with subhedral quartz grains
10	grey weathering, medium- to coarse-grained, tan to brown, sublaminated to massive quartzite
11	black weathering, black to grey phyllitic coarse-grained quartz breccia
12	meta-andesite (?)

About 150 m north of the Main Zone, two adits were driven to explore an area on the east side of the prominent topographic linear. The northern adit (15 m long) was apparently drifted on a 45 cm wide quartz vein containing abundant chalcopyrite. Selected specimens obtained in 1984 from the adit dump have assayed up to 1.3 oz/ton gold, 4.2 oz/ton silver and 10.37% copper. A more representative specimen of copper-rich mineralization from the dump graded 0.33 oz/ton gold, 0.51 oz/ton silver and 7.4% copper. A typical specimen of mineralization taken in 1986 from the lower adit (114 m long) dump graded 0.16 oz/ton gold, 0.38 oz/ton silver and 3.4% copper.

A second area of copper mineralization lies 1.2 km north-northeast of the Main Zone. As with the former area, widespread low-grade copper mineralization occurs within a large area of pervasive silicification and overprinted quartz veining. A sample of pyritic quartz vein from this zone carried 0.02 oz/ton gold.

GEOCHEMISTRY

A total of 613 soil samples, 18 rock grab samples and 6 rock chip samples were collected during the 1986 field program. Soil samples were collected at 30 m spacings along lines previously cut about 120 apart. Each 60 m sample site was marked by a 0.75 lath m with orange flagging, while alternate samples were marked with orange flagging only. Only every second soil sample was analyzed, forming a 120 x 60 m grid. Soil samples were pulverized to better than -100 mesh and analyzed for gold by Fire Assay preconcentration for Neutron Activation Analysis (FA-NAA). Two soil lines in the vicinity of the main showing, totalling 13 samples, were analyzed for 30 elements by Induced Coupled Plasma technique (ICP). Rock samples were pulverized to better than -140 mesh and analyzed by FA-NAA for gold. All analyses were performed by Chemex Labs Ltd., North Vancouver, B.C.

Soil and rock sample locations are shown on Figure 3. Gold values are given on Figure 5. The background level for gold in soils on the property is very low, being less than the one part-per-billion lower detection limit of the FA-NAA analytical technique used. Furthermore, several isolated bedrock exposures with anomalously high gold content (e.g. 773, 126, 168, 62, 142 ppb gold) are not reflected by gold anomalies from nearby grid soil samples. This suggests that glacial till cover may be thicker than field observations initially indicate.

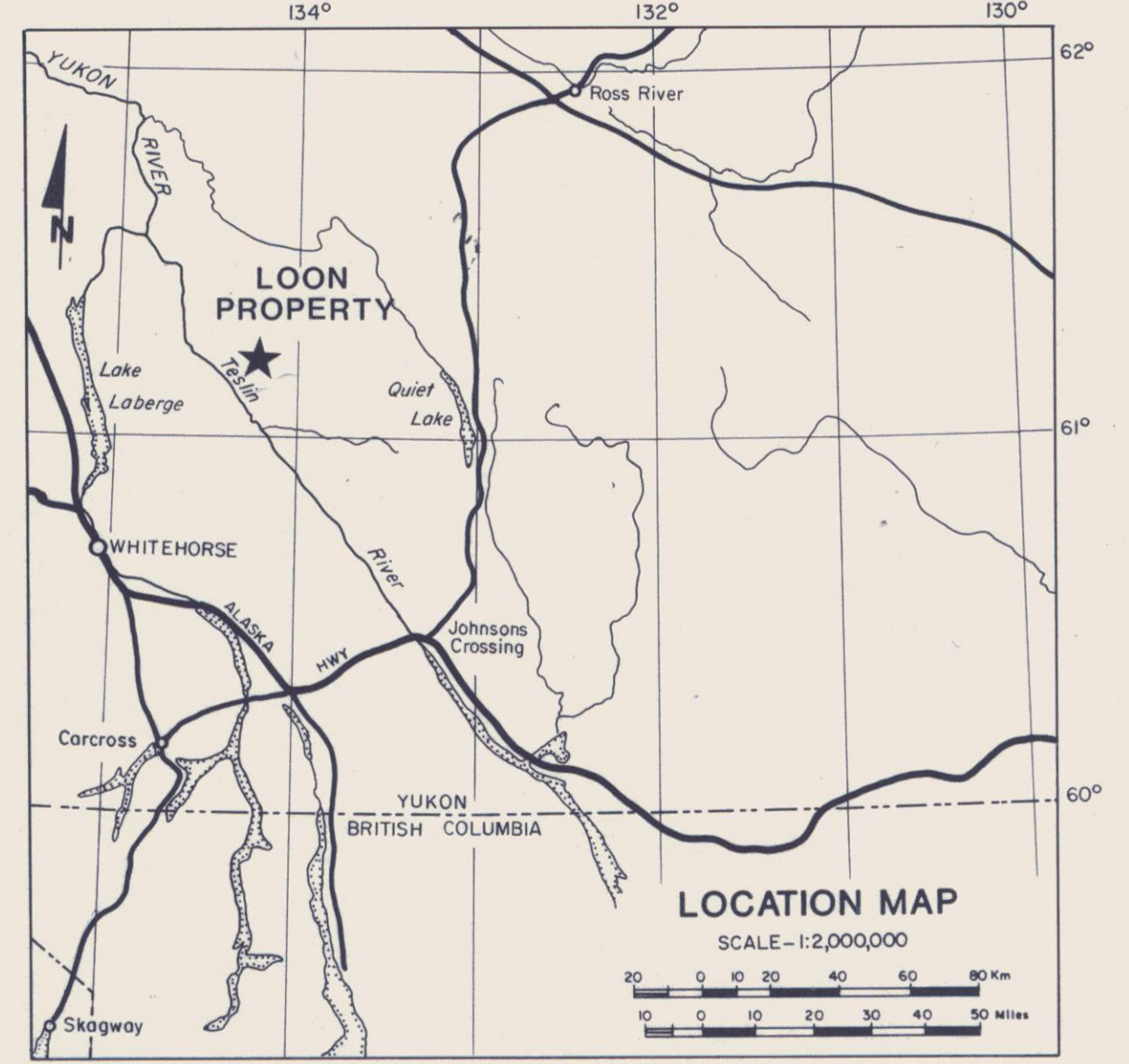
Results of grid soil sampling outline three nearby areas (Figure 5) of moderately to strongly anomalous gold response (values greater than 10 ppb gold are considered anomalous). Anomaly A measures 100 by 400 m with peak values up to 202 ppb gold. No mineralization has been discovered in the area

of Anomaly A to explain the high gold content of the soils, however, the north-northeast trend of the anomaly is parallel with known IP anomalies elsewhere on the property.

Anomaly B extends over a 150 by 500 m area with maximum values up to 1020 ppb gold. The area of the anomaly encompasses the Main Zone area of silicification and copper mineralization. The two adits north of the Main Zone intersected well mineralized quartz veins although these are not reflected by the results of the soil sampling program. In fact, Anomaly B does not include, but surrounds the area of the projected surface exposures of the veins.

Anomaly C covers a 100 by 400 m area and consists of three soil samples that returned gold values of 36, 59, and 76 ppb. These were taken immediately downslope of an elongate IP anomaly in an area of poor bedrock exposure with no known mineralization.

A number of single-sample anomalies occur elsewhere on the property within the 1986 soil sample grid. Values of gold in soil in these areas are only moderately anomalous (up to 36 ppb gold).



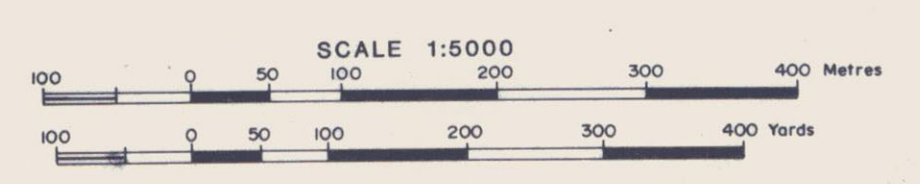
LOON 1-16 CLAIMS

- LEGEND**
- soil sample site
 - x silt sample site
 - rock sample site
 - chip sample site
 - old adit
 - area of high copper mineralization

Figure 3
ARCHER, CATRO & ASSOCIATES (1981) LIMITED

SAMPLE LOCATION

LOON PROPERTY
SILVERQUEST RESOURCES LTD.



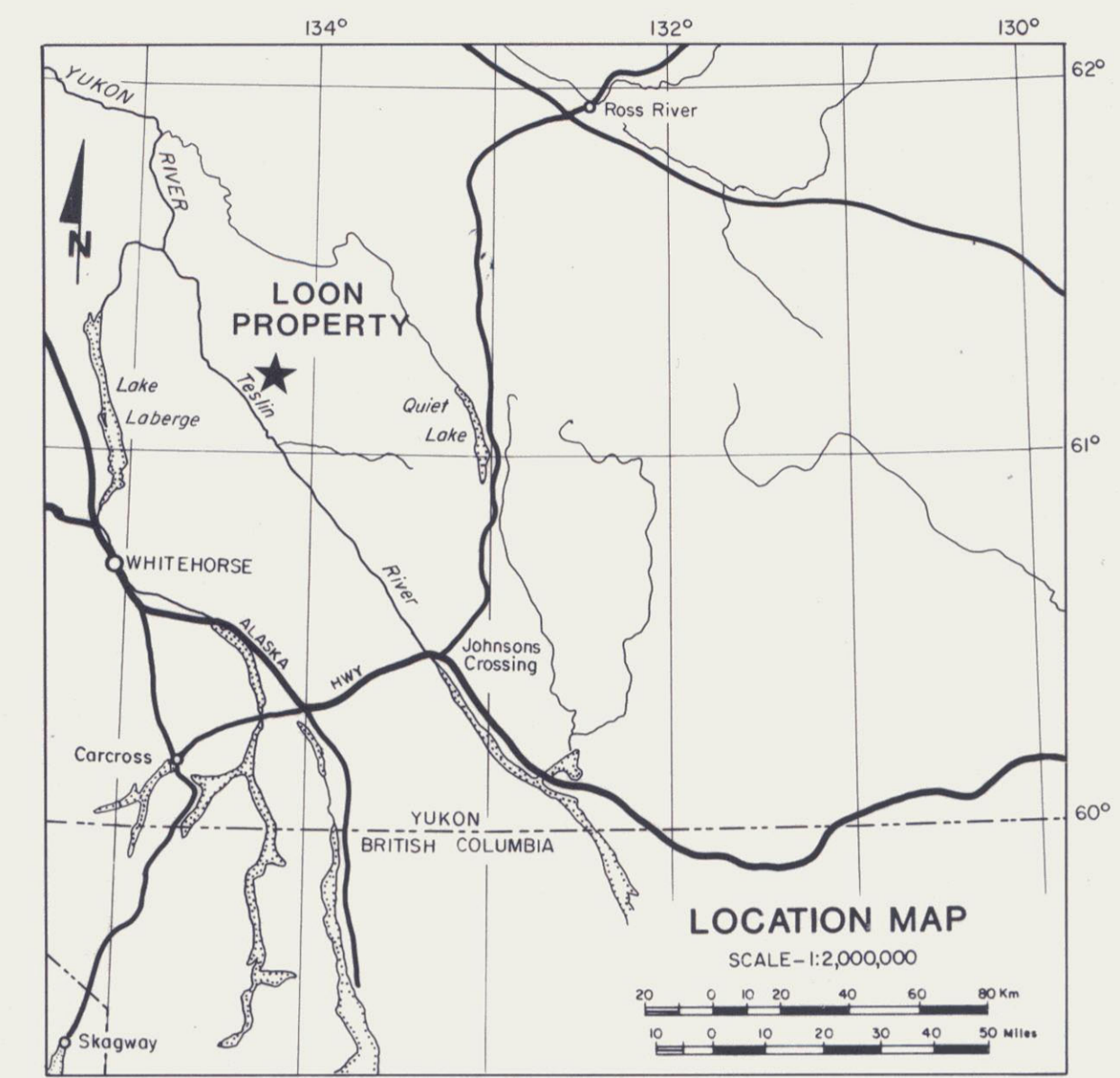
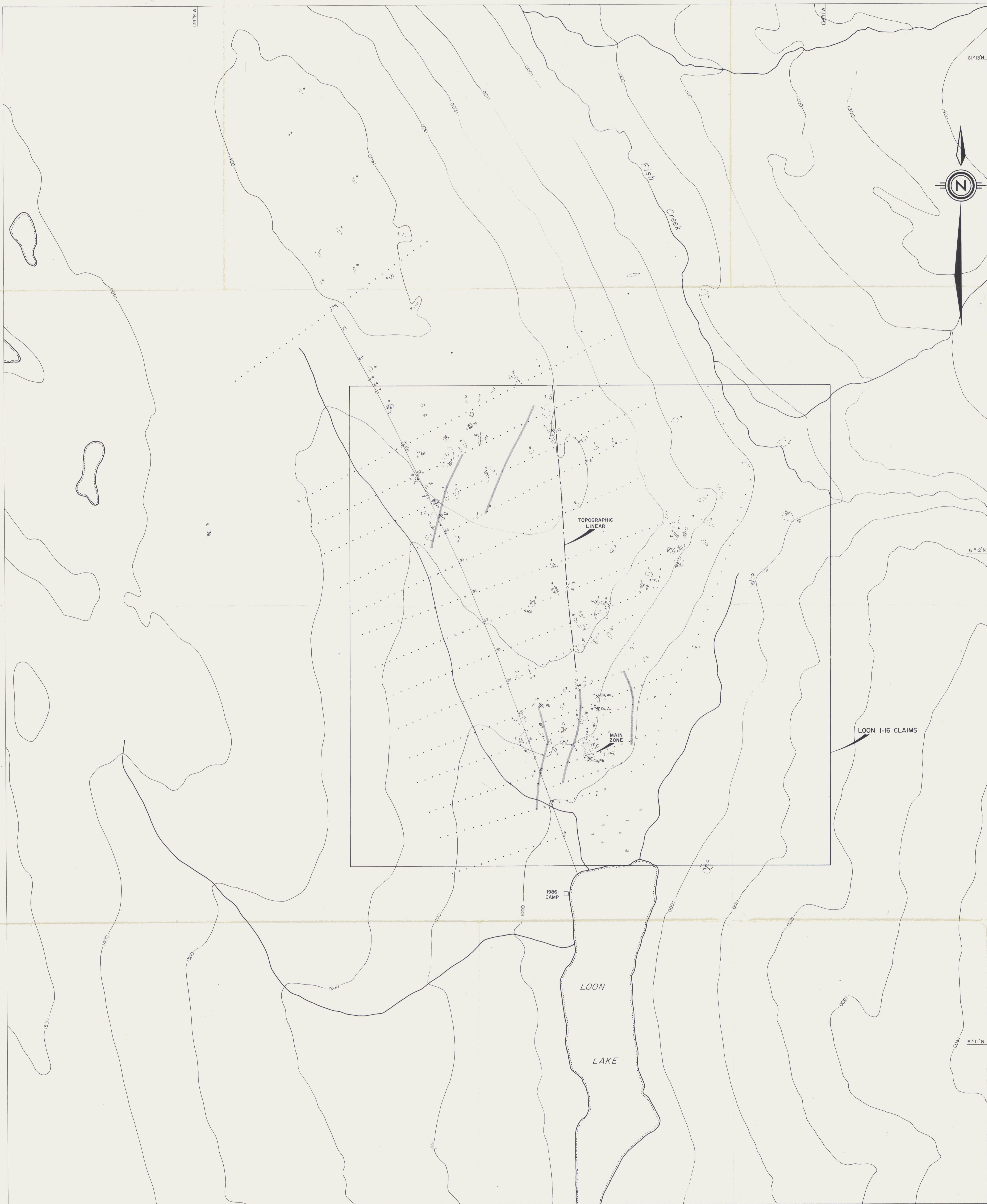


TABLE OF FORMATIONS

- | | |
|----|--|
| 1 | felsite dyke; white, fine-grained, blocky |
| 2 | mafic dyke; partially to totally serpentinized, calcareous |
| 3 | dark grey weathering, grey-green quartz-chlorite-sericite schist interbedded with light grey, fine- to medium-grained massive quartzite with phyllitic parting; beds up to 80 cm wide but usually smaller; rarely calcareous; small scale open folds may be present |
| 4 | grey weathering, light to dark grey, very fine-grained, banded, limy quartzite with phyllitic parting interbedded with grey-green limy chlorite-sericite schist, sometimes with white calcite lenses; small scale open folds may be present
(a) predominantly limy schist
(b) predominantly limy quartzite |
| 5 | black-grey weathering, non-calcareous Unit 4
(a) predominantly schist
(b) predominantly quartzite |
| 6 | brown weathering, tan to brown, limy quartz-sericite schist with fine phyllitic laminations, interbedded with coarse-grained, massive to sublaminate, brown limy quartzite
(a) predominantly limy schist
(b) predominantly limy quartzite |
| 7 | grey weathering, light grey-green quartz-chlorite-sericite schist with white quartz veins; interbedded with dark grey, massive medium-grained quartzite |
| 8 | rusty tan weathering, medium-grained, light grey to brown brecciated quartzite |
| 9 | grey to black weathering, medium-grained, brown-grey to black, laminated to massive, meta-greywacke with subhedral quartz grains |
| 10 | grey weathering, medium- to coarse-grained, tan to brown, sublaminate to massive quartzite |
| 11 | black weathering, black to grey phyllitic coarse-grained quartz breccia |
| 12 | meta-andesite (?) |

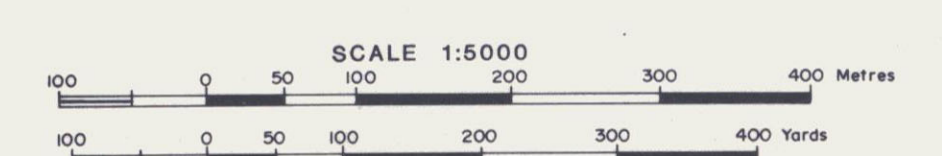
LEGEND

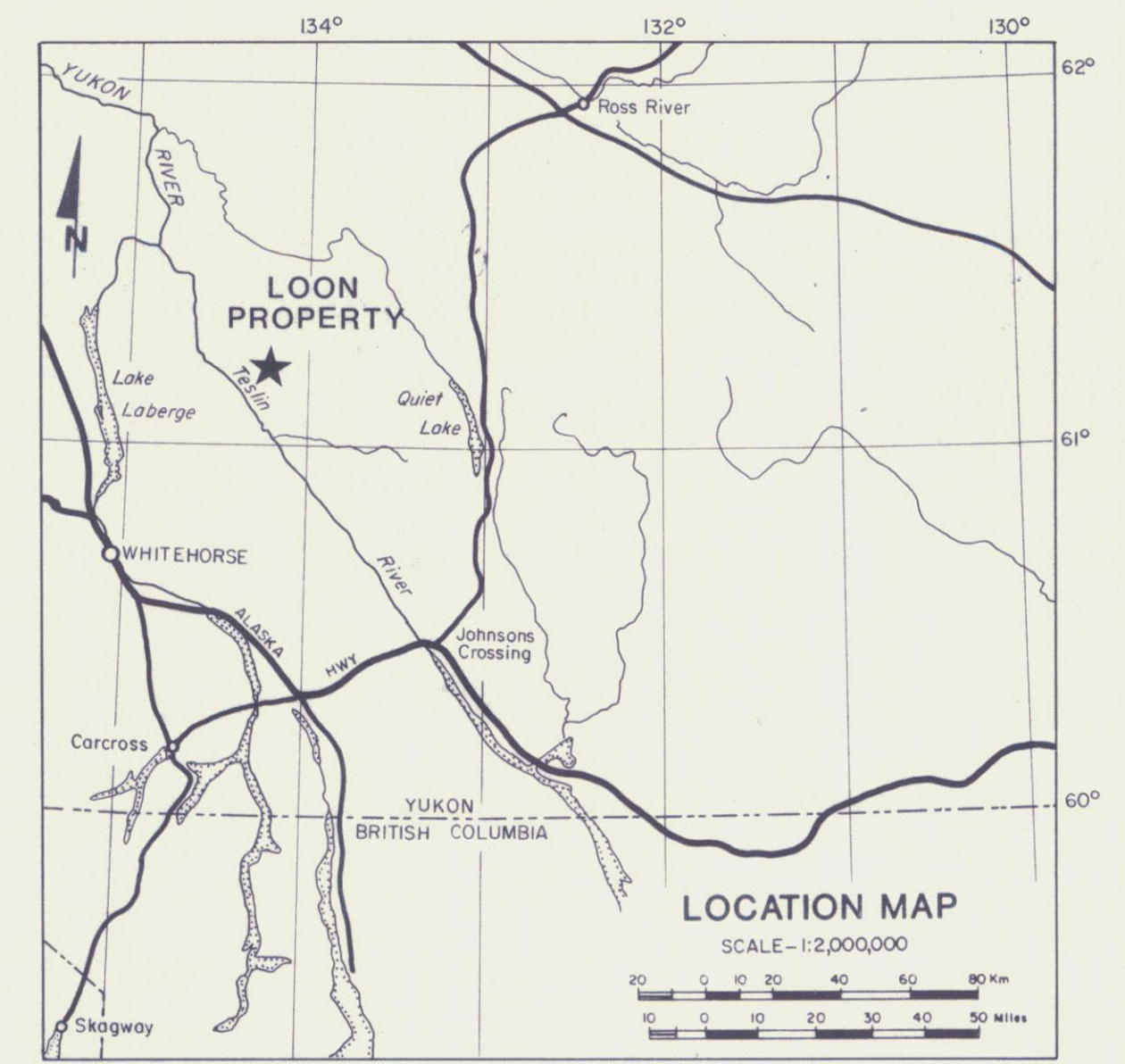
- Limit of outcrop
- 1970 IP anomaly axis
- Strike and dip of bedding
- Strike and dip of foliation
- Zone of intense silicification and high copper mineralization
- Soil sample location
- Silt sample location
- Rock sample location
- Chip sample location
- Old adit

Figure 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY

LOON PROPERTY
SILVERQUEST RESOURCES LTD.





LEGEND

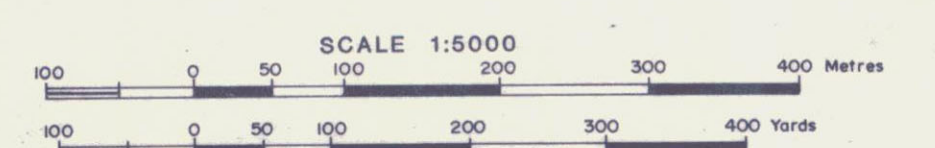
- soil sample with gold in ppb
- × silt sample with gold in ppb
- rock sample with gold in ppb
- chip sample with gold in ppb
- old adit
- 10, 20, 40 and 80 ppb gold contours
- zone of intense silicification and high copper mineralization
- A** gold anomaly

Figure 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD GEOCHEMISTRY

LOON PROPERTY

SILVERQUEST RESOURCES LTD.



APPENDIX I
CERTIFICATE OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Robert C. Carne, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Burnaby, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1974 with a B.Sc. and in 1979 with an M.Sc. majoring in Geological Sciences.
2. I am a member of the Geological Association of Canada.
3. From 1974 to the present, I have been actively engaged as a geologist in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981 became a partner of Archer, Cathro & Associates (1981) Limited.
4. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



Robert C. Carne, B.Sc., M.Sc.

APPENDIX II
CERTIFICATES OF ANALYSES



fresh

Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1
Phone: (604) 984-0221
Telex: 043-52597

CERTIFICATE OF ANALYSIS

TO : ARCHER CATHRO & ASSOC. (1981) LTD.
BOX 4127
3125 THIRD AVE.
WHITEHORSE, Y.T.
Y1A 3S9

CERT. # : A8615043-001-A
INVOICE # : I8615043
DATE : 27-JUL-86
P.O. # : NONE
SQ LOON LAKE

N

Sample description	Prep code	Au NAA ppb						
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P 23505	203	<1	--	--	--	--	--	--
P 23507	203	<1	--	--	--	--	--	--
P 23509	203	<1	--	--	--	--	--	--
P 23511	203	<1	--	--	--	--	--	--
P 23513	203	<1	--	--	--	--	--	--
P 23515	203	<1	--	--	--	--	--	--
P 23517	203	<1	--	--	--	--	--	--
P 23519	203	36	--	--	--	--	--	--
P 23521	203	<1	--	--	--	--	--	--
P 23523	203	1	--	--	--	--	--	--
23525	203	<1	--	--	--	--	--	--
✓ 23527	203	<1	--	--	--	--	--	--
P 23529	203	<1	--	--	--	--	--	--
P 23531	203	<1	--	--	--	--	--	--
P 23533	203	<1	--	--	--	--	--	--
P 23535	203	<1	--	--	--	--	--	--
P 23537	203	<1	--	--	--	--	--	--
P 23539	203	6	--	--	--	--	--	--
P 23541	203	5	--	--	--	--	--	--
P 23543	203	<1	--	--	--	--	--	--
P 23545	203	<1	--	--	--	--	--	--
P 23547	203	<1	--	--	--	--	--	--
P 23549	203	<1	--	--	--	--	--	--
P 23551	203	<1	--	--	--	--	--	--
P 23553	203	<1	--	--	--	--	--	--
P 23555	203	<1	--	--	--	--	--	--
P 23557	203	<1	--	--	--	--	--	--
P 23559	203	<1	--	--	--	--	--	--
P 23561	203	<1	--	--	--	--	--	--
P 23563	203	<1	--	--	--	--	--	--
P 23565	203	5	--	--	--	--	--	--
P 23567	203	<1	--	--	--	--	--	--
P 23569	203	<1	--	--	--	--	--	--
P 23571	203	<1	--	--	--	--	--	--
P 23573	203	<1	--	--	--	--	--	--
23575	203	<1	--	--	--	--	--	--
23577	203	<1	--	--	--	--	--	--
P 23579	203	<1	--	--	--	--	--	--

VOI rev. 4/85

Certified by *Hank Bichler*



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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North Vancouver, B.C.
Canada V7J 2C1
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Telex: 043-52597

CERTIFICATE OF ANALYSIS

TO : ARCHER CATHRO & ASSOC. (1981) LTD.
BOX 4127
3125 THIRD AVE.
WHITEHORSE, Y.T.
Y1A 3S9

CERT. # : A8615043-002-A
INVOICE # : I8615043
DATE : 27-JUL-86
P.C. # : NONE
SQ LOON LAKE

N

Sample description	Prep code	Au NAA ppb						
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P 23583	203	<1	--	--	--	--	--	--
P 23585	203	<1	--	--	--	--	--	--
P 23587	203	<1	--	--	--	--	--	--
P 23589	203	<1	--	--	--	--	--	--
P 23591	203	24	--	--	--	--	--	--
P 23593	203	<1	--	--	--	--	--	--
P 23595	203	<1	--	--	--	--	--	--
P 23597	203	<1	--	--	--	--	--	--
P 23599	203	<1	--	--	--	--	--	--
P 23601	203	<1	--	--	--	--	--	--
P 23603	203	<1	--	--	--	--	--	--
P 23605	203	<1	--	--	--	--	--	--
P 23607	203	<1	--	--	--	--	--	--
P 23609	203	<1	--	--	--	--	--	--
P 23611	203	<1	--	--	--	--	--	--
P 23613	203	3	--	--	--	--	--	--
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P 23617	203	5	--	--	--	--	--	--
P 23619	203	9	--	--	--	--	--	--
P 23621	203	<1	--	--	--	--	--	--
P 23623	203	<1	--	--	--	--	--	--
P 23625	203	<1	--	--	--	--	--	--
P 23627	203	<1	--	--	--	--	--	--
P 23629	203	<1	--	--	--	--	--	--
P 23631	203	<1	--	--	--	--	--	--
P 23633	203	<1	--	--	--	--	--	--
P 23635	203	<1	--	--	--	--	--	--
P 23637	203	<1	--	--	--	--	--	--
P 23639	203	6	--	--	--	--	--	--
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P 23651	203	<1	--	--	--	--	--	--
P 23653	203	<1	--	--	--	--	--	--
P 23655	203	4	--	--	--	--	--	--
P 23657	203	<1	--	--	--	--	--	--
P 23659	203	<1	--	--	--	--	--	--

VOI rev. 4/85

Certified by *Hart Bichler*



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BOX 4127
3125 THIRD AVE.
WHITEHORSE, Y.T.
Y1A 3S9

CERT. # : A8615043-003-A
INVOICE # : I8615043
DATE : 27-JUL-86
P.O. # : NONE
SQ LOON LAKE

N

Sample description	Prep code	Au NAA ppb						
P 23661	203	<1	--	--	--	--	--	--
P 23663	203	<1	--	--	--	--	--	--
P 23665	203	<1	--	--	--	--	--	--
P 23667	203	<1	--	--	--	--	--	--
P 23669	203	<1	--	--	--	--	--	--
P 23671	203	<1	--	--	--	--	--	--
P 23673	203	<1	--	--	--	--	--	--
P 23675	203	<1	--	--	--	--	--	--
P 23677	203	<1	--	--	--	--	--	--
P 23679	203	5	--	--	--	--	--	--
P 23681	203	<1	--	--	--	--	--	--
23683	203	<1	--	--	--	--	--	--
23685	203	<1	--	--	--	--	--	--
P 23687	203	<1	--	--	--	--	--	--
P 23689	203	<1	--	--	--	--	--	--
P 23691	203	<1	--	--	--	--	--	--
P 23693	203	<1	--	--	--	--	--	--
P 23695	203	<1	--	--	--	--	--	--
P 23697	203	<1	--	--	--	--	--	--
P 23699	203	<1	--	--	--	--	--	--
P 23701	203	<1	--	--	--	--	--	--
P 23703	203	<1	--	--	--	--	--	--
P 23705	203	<1	--	--	--	--	--	--
P 23707	203	<1	--	--	--	--	--	--
P 23801	203	3	--	--	--	--	--	--
P 23803	203	<1	--	--	--	--	--	--
P 23805	203	<1	--	--	--	--	--	--
P 23807	203	<1	--	--	--	--	--	--
P 23809	203	<1	--	--	--	--	--	--
P 23811	203	<1	--	--	--	--	--	--
P 23813	203	<1	--	--	--	--	--	--
P 23815	203	<1	--	--	--	--	--	--
P 23817	203	<1	--	--	--	--	--	--
P 23819	203	<1	--	--	--	--	--	--
P 23821	203	<1	--	--	--	--	--	--
P 23823	203	2	--	--	--	--	--	--
P 23825	203	1	--	--	--	--	--	--
23827	203	<1	--	--	--	--	--	--
P 23829	203	<1	--	--	--	--	--	--
P 23831	203	11	--	--	--	--	--	--

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INVOICE # : 18615043
DATE : 27-JUL-86
P.C. # : NONE
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N

Sample description	Prep code	Au NAA ppb						
P 23833	203	2	--	--	--	--	--	--
P 23835	203	<1	--	--	--	--	--	--
P 23837	203	<1	--	--	--	--	--	--
P 23839	203	7	--	--	--	--	--	--
P 23841	203	<1	--	--	--	--	--	--
P 23843	203	<1	--	--	--	--	--	--
P 23845	203	29	--	--	--	--	--	--
P 23851	203	<1	--	--	--	--	--	--
P 23853	203	2	--	--	--	--	--	--
P 23855	203	3	--	--	--	--	--	--
P 23857	203	3	--	--	--	--	--	--
P 23859	203	<1	--	--	--	--	--	--
P 23861	203	<1	--	--	--	--	--	--
P 23863	203	<1	--	--	--	--	--	--
P 23865	203	<1	--	--	--	--	--	--
P 23867	203	3	--	--	--	--	--	--
P 23869	203	<1	--	--	--	--	--	--
P 23871	203	<1	--	--	--	--	--	--
P 23873	203	4	--	--	--	--	--	--
P 23875	203	8	--	--	--	--	--	--
P 23877	203	14	--	--	--	--	--	--
P 23879	203	43	--	--	--	--	--	--
P 23881	203	<1	--	--	--	--	--	--
P 23883	203	4	--	--	--	--	--	--
P 23885	203	4	--	--	--	--	--	--
P 23887	203	<1	--	--	--	--	--	--
P 23889	203	<1	--	--	--	--	--	--
P 23891	203	<1	--	--	--	--	--	--
P 23893	203	<1	--	--	--	--	--	--
P 23895	203	<1	--	--	--	--	--	--
P 23897	203	4	--	--	--	--	--	--
P 23899	203	<1	--	--	--	--	--	--
P 23901	203	10	--	--	--	--	--	--
P 23903	203	18	--	--	--	--	--	--
P 23905	203	5	--	--	--	--	--	--
P 23907	203	<1	--	--	--	--	--	--
P 23909	203	<1	--	--	--	--	--	--
P 23911	203	2	--	--	--	--	--	--
P 23913	203	<1	--	--	--	--	--	--
P 23915	203	4	--	--	--	--	--	--

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INVOICE # : I8615043
DATE : 27-JUL-86
P.O. # : NONE
SQ LOON LAKE

N

Sample description	Prep code	Au NAA ppb					
P 23917	203	<1	--	--	--	--	--
P 23919	203	<1	--	--	--	--	--
P 23921	203	<1	--	--	--	--	--
P 23923	203	2	--	--	--	--	--
P 23925	203	<1	--	--	--	--	--
P 23927	203	<1	--	--	--	--	--
P 23929	203	11	--	--	--	--	--
P 23931	203	<1	--	--	--	--	--
P 23933	203	<1	--	--	--	--	--
P 23935	203	<1	--	--	--	--	--
P 23937	203	<1	--	--	--	--	--
P 23939	203	<1	--	--	--	--	--
23941	203	<1	--	--	--	--	--
P 23943	203	<1	--	--	--	--	--
P 23945	203	<1	--	--	--	--	--
P 23947	203	<1	--	--	--	--	--
P 23949	203	<1	--	--	--	--	--
P 23951	203	<1	--	--	--	--	--
P 23953	203	<1	--	--	--	--	--
P 23955	203	<1	--	--	--	--	--
P 23957	203	<1	--	--	--	--	--
P 23959	203	<1	--	--	--	--	--
P 23961	203	<1	--	--	--	--	--
P 23963	203	<1	--	--	--	--	--
P 23965	203	1	--	--	--	--	--
P 23967	203	<1	--	--	--	--	--
P 23969	203	<1	--	--	--	--	--
P 23971	203	202	--	--	--	--	--
P 23973	203	17	--	--	--	--	--
P 23975	203	6	--	--	--	--	--
P 23977	203	<1	--	--	--	--	--
P 23979	203	<1	--	--	--	--	--
P 23981	203	<1	--	--	--	--	--
P 23983	203	<1	--	--	--	--	--
P 23985	203	<1	--	--	--	--	--
P 23987	203	<1	--	--	--	--	--
P 23989	203	<1	--	--	--	--	--
23991	203	<1	--	--	--	--	--
23993	203	<1	--	--	--	--	--
P 23995	203	4	--	--	--	--	--

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 Y1A 3S9

CERT. # : A8615043-006-A
 INVOICE # : 18615043
 DATE : 27-JUL-86
 P.C. # : NONE
 SQ LOON LAKE

N

Sample description	Prep code	Au NAA ppb						
P 23997	203	9	--	--	--	--	--	--
P 23999	203	<1	--	--	--	--	--	--
P 24501	203	1	--	--	--	--	--	--
P 24503	203	<1	--	--	--	--	--	--
P 24505	203	<1	--	--	--	--	--	--
P 24507	203	1	--	--	--	--	--	--
P 24509	203	23	--	--	--	--	--	--
P 24511	203	2	--	--	--	--	--	--
P 24513	203	<1	--	--	--	--	--	--
P 24515	203	4	--	--	--	--	--	--
P 24517	203	1	--	--	--	--	--	--
P 24519	203	<1	--	--	--	--	--	--
P 24521	203	<1	--	--	--	--	--	--
P 24523	203	<1	--	--	--	--	--	--
P 24525	203	<1	--	--	--	--	--	--
P 24527	203	<1	--	--	--	--	--	--
P 26771	203	<1	--	--	--	--	--	--
P 26773	203	<1	--	--	--	--	--	--
P 26775	203	<1	--	--	--	--	--	--
P 26777	203	<1	--	--	--	--	--	--
P 26779	203	<1	--	--	--	--	--	--
P 26781	203	<1	--	--	--	--	--	--
P 26783	203	<1	--	--	--	--	--	--
P 26785	203	<1	--	--	--	--	--	--
P 26787	203	<1	--	--	--	--	--	--
P 26789	203	<1	--	--	--	--	--	--
P 26790	203	<1	--	--	--	--	--	--
P 26793	203	<1	--	--	--	--	--	--
P 26795	203	<1	--	--	--	--	--	--
P 26797	203	1	--	--	--	--	--	--
P 26799	203	<1	--	--	--	--	--	--

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CERT. # : A8615046-001-A
INVOICE # : 18615046
DATE : 27-JUL-86
P.O. # : NONE
SQ LOON

Sample description	Prep code	Au NAA ppb						
P 23286	205	<1	--	--	--	--	--	--
P 23287	205	<1	--	--	--	--	--	--
P 23288	205	20	--	--	--	--	--	--
P 23289	205	281	--	--	--	--	--	--
P 23290	205	9	--	--	--	--	--	--
P 23291	205	5370 [^]	--	--	--	--	--	--
P 23292	205	7050 ^x	--	--	--	--	--	--
P 23293	205	142	--	--	--	--	--	--
P 23294	205	38	--	--	--	--	--	--
P 23295	205	62	--	--	--	--	--	--
P 23296	205	11	--	--	--	--	--	--
P 23297	205	2	--	--	--	--	--	--
23298	205	75	--	--	--	--	--	--
23299	205	46	--	--	--	--	--	--
P 23300	205	126	--	--	--	--	--	--
P 23712	205	168	--	--	--	--	--	--
P 23713	205	73	--	--	--	--	--	--
P 23714	205	21	--	--	--	--	--	--
P 23715	205	265	--	--	--	--	--	--
P 23716	205	335	--	--	--	--	--	--
P 23717	205	108	--	--	--	--	--	--
P 23718	205	16	--	--	--	--	--	--
P 23719	205	4	--	--	--	--	--	--
P 23720	205	6	--	--	--	--	--	--

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CERT. # : A8615206-001-A
INVOICE # : 18615206
DATE : 29-JUL-86
P.C. # : NONE
SQ (LOON LAKE)

Sample description	Prep code	Au NAA ppb					
P 23709	203	11	--	--	--	--	--
P 23711	203	<1	--	--	--	--	--
P 23751	203	<1	--	--	--	--	--
P 23752	203	36	--	--	--	--	--
P 23753	217	76	--	--	--	--	--
P 23754	203	<1	--	--	--	--	--
P 23755	203	<1	--	--	--	--	--
P 23756	203	<1	--	--	--	--	--
P 23757	203	42	--	--	--	--	--
P 23758	203	2	--	--	--	--	--
P 23759	203	<1	--	--	--	--	--
P 23760	203	<1	--	--	--	--	--
23761	203	<1	--	--	--	--	--
23762	203	1	--	--	--	--	--
P 23763	203	<1	--	--	--	--	--
P 23764	203	<1	--	--	--	--	--
P 23765	203	9	--	--	--	--	--
P 23766	203	<1	--	--	--	--	--
P 23767	203	<1	--	--	--	--	--
P 23768	203	<1	--	--	--	--	--
P 23769	203	4	--	--	--	--	--
P 23770	203	<1	--	--	--	--	--
P 23771	203	<1	--	--	--	--	--
P 23772	203	<1	--	--	--	--	--
P 23773	203	<1	--	--	--	--	--
P 23774	203	<1	--	--	--	--	--
P 23775	203	<1	--	--	--	--	--
P 23776	203	<1	--	--	--	--	--
P 23777	203	<1	--	--	--	--	--
P 23778	203	<1	--	--	--	--	--
P 23779	203	<1	--	--	--	--	--
P 23780	203	<1	--	--	--	--	--
P 24529	203	<1	--	--	--	--	--
P 24531	203	<1	--	--	--	--	--
P 24533	203	3	--	--	--	--	--
P 24535	203	<1	--	--	--	--	--
P 24537	203	N.S.S.	--	--	--	--	--
24539	203	<1	--	--	--	--	--
24541	203	<1	--	--	--	--	--
P 24543	203	<1	--	--	--	--	--

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CERT. # : A8615206-002-A
INVOICE # : I8615206
DATE : 29-JUL-86
P.C. # : NCNE
SQ (LCON LAKE)

Sample description	Prep code	Au NAA ppb						
P 24545	203	6	--	--	--	--	--	--
P 24547	203	<1	--	--	--	--	--	--
P 24549	203	3	--	--	--	--	--	--
P 24551	203	3	--	--	--	--	--	--
P 24553	203	<1	--	--	--	--	--	--
P 24555	203	37	--	--	--	--	--	--
P 24557	203	<1	--	--	--	--	--	--
P 24559	203	<1	--	--	--	--	--	--
P 24561	203	1	--	--	--	--	--	--
P 24563	203	<1	--	--	--	--	--	--
P 24565	203	<1	--	--	--	--	--	--
P 24567	203	<1	--	--	--	--	--	--
24569	203	<1	--	--	--	--	--	--
✓ 24571	203	<1	--	--	--	--	--	--
P 24573	203	404	--	--	--	--	--	--
P 24575	203	1	--	--	--	--	--	--
P 24577	203	<1	--	--	--	--	--	--
P 24579	203	<1	--	--	--	--	--	--
P 24581	203	<1	--	--	--	--	--	--
P 24583	203	<1	--	--	--	--	--	--
P 24585	203	7	--	--	--	--	--	--
P 24587	203	<1	--	--	--	--	--	--
P 24589	203	2	--	--	--	--	--	--
P 24591	203	26	--	--	--	--	--	--
P 24593	203	25	--	--	--	--	--	--
P 24595	203	4	--	--	--	--	--	--
P 24597	203	<1	--	--	--	--	--	--
P 24599	203	<1	--	--	--	--	--	--
P 24601	203	1020	--	--	--	--	--	--
P 24603	203	49	--	--	--	--	--	--
P 24605	203	5	--	--	--	--	--	--
P 24607	203	59	--	--	--	--	--	--
P 24609	203	<1	--	--	--	--	--	--
P 24611	203	<1	--	--	--	--	--	--
P 24613	203	5	--	--	--	--	--	--
P 24615	203	9	--	--	--	--	--	--
P 24617	203	131	--	--	--	--	--	--
24619	203	<1	--	--	--	--	--	--
24621	203	8	--	--	--	--	--	--
P 24623	203	1	--	--	--	--	--	--

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CERT. # : A8615206-003-A
INVOICE # : I8615206
DATE : 29-JUL-86
P.O. # : NONE
SQ (LOON LAKE)

Sample description	Prep code	AU NAA ppb						
P 24625	203	<1	--	--	--	--	--	--
P 24627	203	<1	--	--	--	--	--	--
P 24629	203	<1	--	--	--	--	--	--
P 24631	203	1	--	--	--	--	--	--
P 24633	203	<1	--	--	--	--	--	--
P 24635	203	<1	--	--	--	--	--	--
P 24637	203	1	--	--	--	--	--	--
P 24639	203	<1	--	--	--	--	--	--
P 24641	203	<1	--	--	--	--	--	--
P 24643	203	<1	--	--	--	--	--	--

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Y1A 3S9

CERT. # : A8615248-001-A
INVOICE # : I8615248
DATE : 29-JUL-86
P.O. # : NONE
SQ LOON

Sample description	Prep code	Au NAA ppb						
P 23721	205	<1	--	--	--	--	--	--
P 23722	205	<1	--	--	--	--	--	--
P 23723	205	3	--	--	--	--	--	--
P 23724	205	773	--	--	--	--	--	--
P 23725	205	300	--	--	--	--	--	--
P 23726	205	68	--	--	--	--	--	--
P 23727	205	299	--	--	--	--	--	--
MAIN ZONE	205	2080	--	--	--	--	--	--

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Y1A 3S9

CERT. # : A8615207-001-A
INVOICE # : I8615207
DATE : 30-JUL-86
P.O. # : NONE
SQ (LOON LAKE)

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :

Sample description	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
P 24585	7	1.51	0.2	10	80 <0.5	2	0.09 <0.5	9	63	87	2.84	10	0.17	50	0.35	164	<1	0.03	18	460	10	<10	16	0.01	<10	<10	30	<10	30	--	--
P 24587	-	3.09	0.2	10	50 <0.5	2	0.56 <0.5	34	525	32	4.19	10	0.01	<10	3.23	815	<1	0.05	107	270	10	<10	19	0.12	<10	<10	144	<10	50	--	--
P 24589	2	2.47	0.2	20	160 <0.5	2	0.52 <0.5	23	256	39	3.63	10	0.18	20	1.18	582	<1	0.02	53	160	20	<10	32	0.07	<10	<10	82	<10	40	--	--
P 24591	16	1.96	0.2	20	90 <0.5	2	0.16 <0.5	13	73	568	3.56	10	0.20	50	0.41	206	1	0.01	24	270	60	<10	15	0.01	<10	<10	39	<10	56	--	--
P 24593	15	1.22	0.2	10	70 <0.5	2	0.08 <0.5	7	105	367	2.64	10	0.25	50	0.18	125	<1	0.02	15	220	12	<10	8	0.01	10	<10	21	<10	30	--	--
P 24595	4	2.08	0.2	20	80 <0.5	2	1.12 <0.5	15	74	42	3.43	20	0.13	70	0.95	1421	<1	0.03	37	630	18	<10	39	0.01	30	10	19	<10	30	--	--
P 24597	-	3.34	0.2	20	70 <0.5	2	0.41 <0.5	47	419	39	4.96	10	0.01	<10	2.71	1734	<1	0.03	91	400	18	<10	17	0.17	<10	<10	170	<10	60	--	--
P 24599	-	1.48	0.2	20	40 <0.5	2	0.45 <0.5	24	192	24	1.88	<10	0.06	<10	1.20	535	<1	0.08	42	280	12	<10	21	0.07	<10	<10	59	<10	30	--	--
P 24601	1010	0.29	4.8	10	30 <0.5	2	0.07 <0.5	1	87	1657	2.16	<10	0.10	10	0.08	61	6	0.01	4	670	306	<10	6	0.01	<10	<10	14	<10	40	--	--
P 24603	43	0.66	1.0	10	70 <0.5	2	0.10 <0.5	5	53	499	1.89	<10	0.11	10	0.13	204	<1	0.10	8	410	22	<10	11	0.04	<10	<10	26	<10	20	--	--
P 24605	5	1.13	0.2	20	60 <0.5	2	0.08 <0.5	8	115	59	3.22	10	0.15	30	0.29	373	2	0.03	14	520	42	<10	8	0.01	<10	<10	44	<10	80	--	--
P 24607	57	1.29	0.2	10	100 <0.5	2	0.30 <0.5	8	98	195	1.76	10	0.13	20	0.49	346	1	0.02	18	530	16	<10	18	0.04	<10	<10	31	<10	40	--	--
P 24609	-	1.20	0.2	20	90 <0.5	2	0.29 <0.5	10	148	40	3.53	10	0.14	20	0.54	425	<1	0.03	32	630	18	<10	18	0.08	<10	<10	63	<10	50	--	--

Certified by Hart Bickler