

PROSPECTING AND GEOCHEMISTRY

REPORT

**ALPINE 1-38 CLAIMS
GRANT # YC01902-YC01938**



MAYO MINING DISTRICT

NTS# 115 P-15

LAT: 63' 48 N

LONG: 136' 57 W

094166

AUTHOR OF REPORT : SHAWN RYAN

WORK PERFORMED AUGUST ,1999

DATE OF REPORT JANUARY, 2001

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 \$ 3800.

M. B. R.

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

TABLE OF CONTENT

Summary	page 01
Introduction	page 01
Location	page 01
Access	page 02
Property Geology	page 02
Work performed	page 02
Interpretation	page 03
Recommendation	page 04
Cost	page 04
Rock Description	page 05
Claim Map	appendix
Geology Map	appendix
Assay Location	appendix
Assay	appendix

SUMMARY

The Alpine 1-38 claims, grant # YCO1902-YCO1938 registered to Shawn Ryan will be renewed for 1 year. Prospecting on the alpine claims have located a large quartz structure carrying arsenopyrite with low gold value. Prospecting has also located a large 1 meter wide massive sulfide vein.

INTRODUCTION

The Alpine claims were staked to cover a high gold geochem anomaly, 520 ppb in a silt sample taken by a YTG geologist, Jeff Bond. This high geochem is situated just below a I.P. anomaly located by a Cominco geophysics survey in 1982.

LOCATION

The Alpine claim block is located on the border of the Dawson, Mayo mining district. It is 35 miles north west of Mayo at the head waters of the Forty mile creek.

ACCESS

Access can be attained via helicopter from Mayo or Dawson City. One can also gain access from the clear creek road where there is a old cat road following a ridge south of the main clear creek. The old cat road starts about 2 mile before you hit the old dredge on the main clear creek and it's on the south side. The road was put in to gain access to the property in the early 1980 when cat trench where put in on the old Sterling property which is now covered by the Alpine claim block.

PROPERTY GEOLOGY

The property geology according to the Sprague Creek geological map. The Alpine claims are located in the Tombstone strain zone of the Hyland group. This group is located in the upper Proterozoic- lower Cambrian rock unit. The Cominco assessment report # 091008 also points out to numerous intrusion of sills and dikes of two different age. Some of the Mcquesten suite and some of the Tombstone suite.

WORK PERFORMED/ METHODS

I research assessment records and found that Cominco had cut a grid and performed a I.P. survey over the alpine claim area. The I.P. survey revealed 3 anomalous zones. One of these anomaly called anomaly B coincided with a high gold geochem silt anomaly of 520 ppb taken on a regional silt survey by a YTG geologist Jeff Bond. The high gold anomaly is situated 250 meter downstream from anomaly B. I and Scott Fleming proceeded to relocated the old Cominco grid and find the anomalous areas of there grid. We took a few soil across all three anomalies. We also prospected off the old grid and found the massive sulfide showing along the Forty mile creek. This showing is a one meter wide massive sulfide showing composing of sphalerite , chalcopyrite, and galena. The showing is in a shear zone with massive quartz surrounded it. The quartz unit is up to 10 meter wide composed of quartz and arsenopyriye. I took rock sample of various rock units around the massive sulfide showing and of the quartz unit. Scott Fleming also took silts sample from various small creek draining into the Forty mile creek. All sample where placed into Kraft paper bags.

INTERPRETATION

SOILS

I took 8 soils across the I.P. anomaly A . The results for gold where disappointing with the highest value at 26 ppb. The ICP revealed anomalous values in As, Ag, Zn, Cd and Pb. I ran 3 soils across I.P. anomaly B with very low gold results. I ran two soils across anomaly C with no gold results.

ROCKS

Rock sample from the Alpine claims showed slightly anomalous values in gold with sample ALPSR99R16 given a value of 123 ppb Au and 4.3% As.

The massive sulfide showing gave a grab sample of 22% Zn, 16.5ppm Ag, 6080ppm Cu with anomalous Cd and Co value and interesting low As value of 86ppm.

Rock unit of Massive quartz found 35 meter up stream from the zinc showing gave a low Au value of 33ppb Au with anomalous value in Ag of 10.2ppm, Cu 266ppm, Pb 170 ppm, Zn 1106ppm, As 4975ppm and Bi 2ppm. Another quartz outcrop 40 meter downstream from the zinc showing gave low Au value but again gave slightly anomalous value in Zn 526ppm and As 1071 ppm.

The result from the small number of rock sample taken off the Alpine claim block shows more promise in base metal value than gold. Although gold should not be discounted a larger number of sample should be taken to follow up both base metal and minor gold value from the large quartz system around the base metal showing.

RECOMMENDATION

I would recommend a deeper soil survey over the I.P. anomalies on the Alpine claims. The small number of soil taken over the I.P. anomalies have not yet explain there nature. I would also suggest taken more rock sample from around the base metal showing. It seems from these few sample of rocks and soil that the alpine claims have not only a gold potential but also a base metal potential.

COST

Helicopter from Mayo	\$1000.00
Assays	\$ 400.00
Prospector	
Shawn Ryan 5.5 Days @ 250.	\$1375.00
Helper	
Scott Fleming 5.5 Days @ 150	\$ 825.00
Food 10 man days @ 35.00	\$ 350.00
Report	\$ 300.00

Total	\$4250.00

QUALIFICATIONS

I have worked in the exploration business for the last 19 years. I have run geophysical survey for the last 12 years. I have being actively prospecting in the Yukon for the last 7 years. I have personally work on this project and state that all the data to be true.

Prospector
Shawn Ryan

A handwritten signature in black ink, appearing to read 'Shawn Ryan', written in a cursive style.

ROCK DESCRIPTION

ALPSR99R02 Float
Ryodacite with Arsenopyrite
UTM: 7076350N 401800E

ALPSR99R16 Float
Quartz with Arsenopyrite
UTM: 7075400N 403700E

ALPSR99R33 Outcrop
Schisty Phyllite
UTM: 7076700N 403800E

ALPSR99R36 Outcrop
Quartz with Arsenopyrite
UTM: 7076250N 404050E

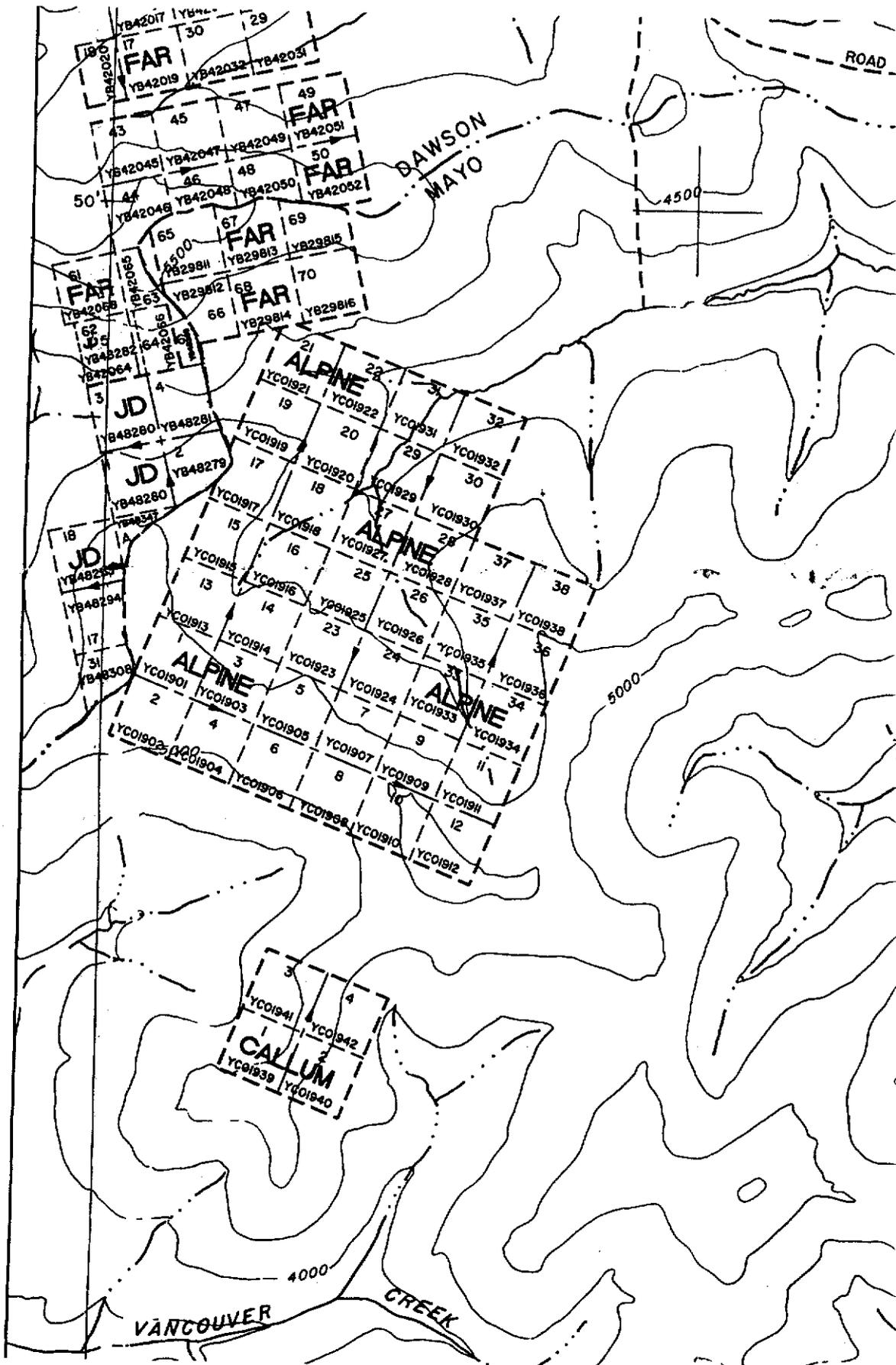
ALPSR99R37 Outcrop
Massive sulfide vein sphalerite with chalcopyrite and galena
UTM: 7076350N 404000E

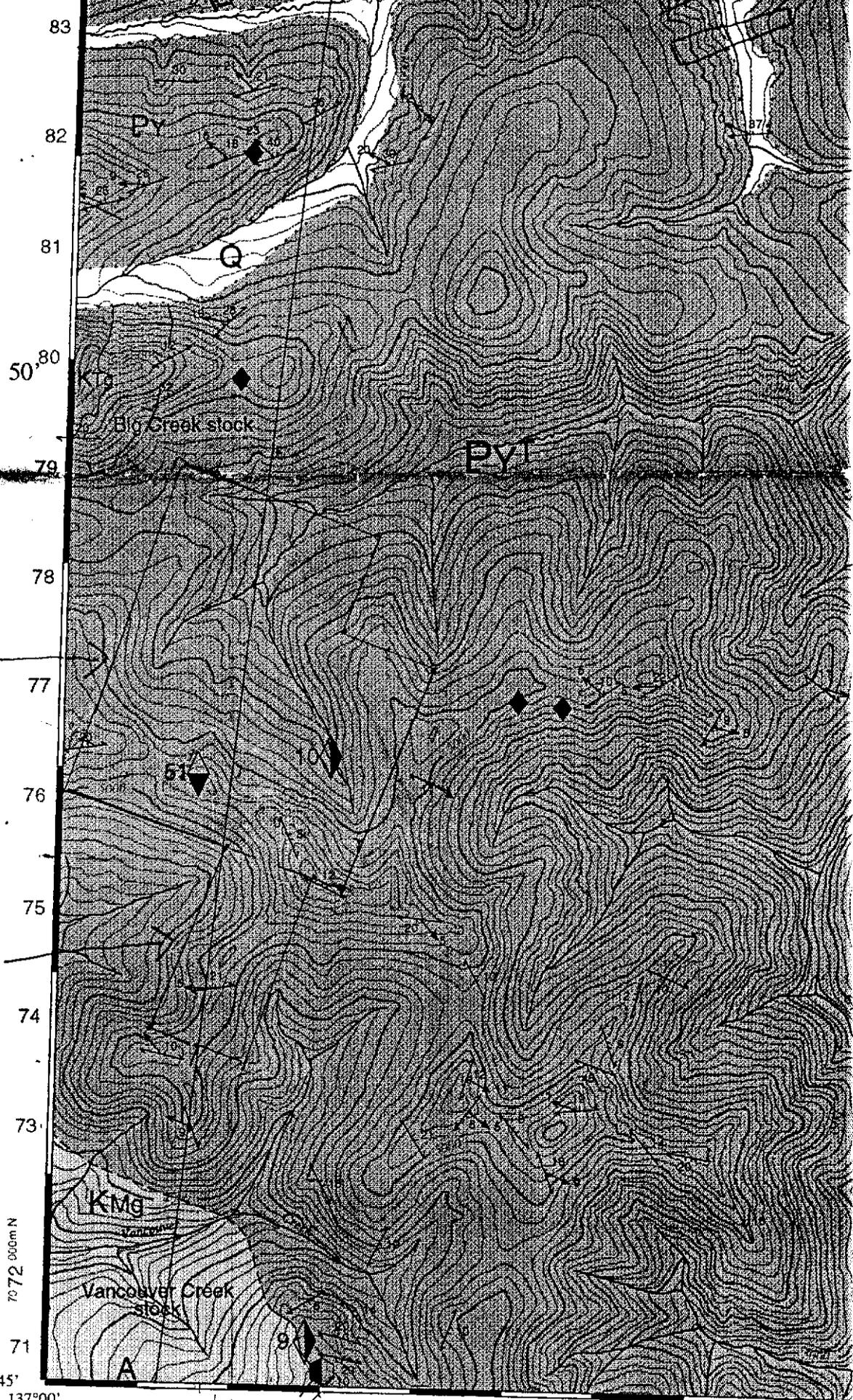
ALPSR99R38 Outcrop
Quartz with minor sphalerite and arsenopyrite
UTM: 7076390N 404000E

ALPINE Claims

1-38

NTs #
115 P/15
↑
NORTH
|

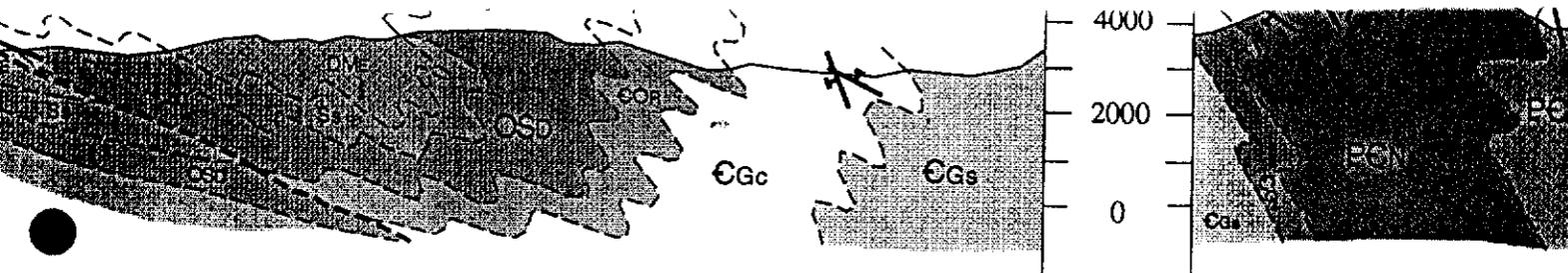




ALPINE
1-38
Claims

Callum
1-8
Claims

Geological map of SPRAGUE CREEK AREA
GEO SCIENCE MAP 1996-2



LEGENE

QUATERNARY

Q Alluvium, colluvium and glacial deposits

LATE CRETACEOUS

McQUESTEN INTRUSIONS¹

KMg Medium- to coarse-grained, locally porphyritic (locally potassium feldspar megacrystic) biotite-muscovite granite and quartz monzonite

EARLY LATE CRETACEOUS

TOMBSTONE INTRUSIONS²

KTg Medium- to coarse grained, locally porphyritic biotite ± hornblende, clinopyroxene granite, quartz monzonite and granodiorite

DEVONIAN-MISSISSIPPIAN

EARN GROUP

DME Grey to black shale/phyllite, siltstone, sandstone, and chert-pebble conglomerate

~~~~~ *unconformity* ~~~~~

**ORDOVICIAN-SILURIAN**

*ROAD RIVER GROUP*

**SS** Steel Formation<sup>3</sup>: beige-orange, massive to well laminated, locally ripple cross-laminated, locally dolomitic siltstone and mudstone; common feeding traces and mottling due to bioturbation

**OSd** Duo Lake Formation<sup>3</sup>: grey to black shale and thin-bedded chert

**UPPER CAMBRIAN-ORDOVICIAN**

**COR** Rabbitkettle Formation<sup>3</sup>: laterally persistent calcareous phyllite, thin- to medium-bedded marble/dolomitic marble, and rare limestone-pebble conglomerate; cherty calcsilicate rock near intrusions.

~~~~~ *unconformity* ~~~~~

ORDOVICIAN-SILURIAN

ROAD RIVER GROUP



Steel Formation³: beige-orange, massive to well laminated, locally ripple cross-laminated, locally dolomitic siltstone and mudstone; common feeding traces and mottling due to bioturbation

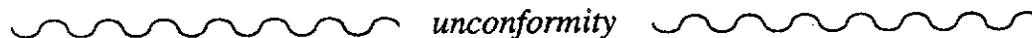


Duo Lake Formation³: grey to black shale and thin-bedded chert

UPPER CAMBRIAN-ORDOVICIAN

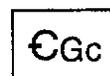


Rabbitkettle Formation³: laterally persistent calcareous phyllite, thin- to medium-bedded marble/dolomitic marble, and rare limestone-pebble conglomerate; cherty calcsilicate rock near intrusions.



unconformity

CAMBRIAN



Gull Lake Formation³: Tan- to brown-weathering thinly-bedded calcareous siltstone, sandstone, shale and limestone



Gull Lake Formation³: Greenish-grey phyllite with mm-scale siltstone laminae, uncommon sandstone and pebbly sandstone, and greenish-grey chert



Gull Lake Formation³: Light to dark grey, locally pebbly quartzite (siliceous meta-sandstone) and dark grey phyllite (E_{qp})



Gull Lake Formation³: Dark green massive to fragmental mafic meta-volcanic and volcanoclastic rocks

UPPER PROTEROZOIC-LOWER CAMBRIAN

HYLAND GROUP^{3,4}



Narchilla Formation³: maroon and green phyllite with cm-scale green-grey siltstone laminations, grey to green meta-sandstone and pebbly meta-sandstone (grit), and sandy limestone



Sandy limestone and limestone-breccia-rich member



Yusezyu Formation^{3,4}: foliated tan to grey meta-sandstone, muscovite-chlorite phyllite, blue-grey quartz and chalky white feldspar pebbly meta-sandstone (grit) pebble meta-conglomerate and uncommon sandy marble (E_{vc}). Purplish/maroonish siliceous pelitic hornfels and calcsilicate hornfels near intrusions

TOMBSTONE STRAIN ZONE UPPER BOUNDARY



Yusezyu Formation^{3,4} (in Tombstone Strain Zone): prominently foliated and lineated muscovite-chlorite phyllite, quartzofeldspathic and micaceous psammite, gritty psammite, rare calc-silicate rock and marble (E_{vc})

- 64-67 Ma U-Pb zircon and/or monazite age determinations by Jim Mortensen, University of British Columbia
- 91-94 Ma U-Pb zircon and/or titanite age determinations by Jim Mortensen, University of British Columbia
- Formation names are those defined or used by Gordey and Anderson (1993) for Nahanni map area (105 I)
- Yusezyu and Narchilla formations are intruded by intermediate to mafic sills and dykes of unknown age that are too small to portray at the scale of mapping

91

89

55'

88

87

86

85

84

83

82

81

80

50'

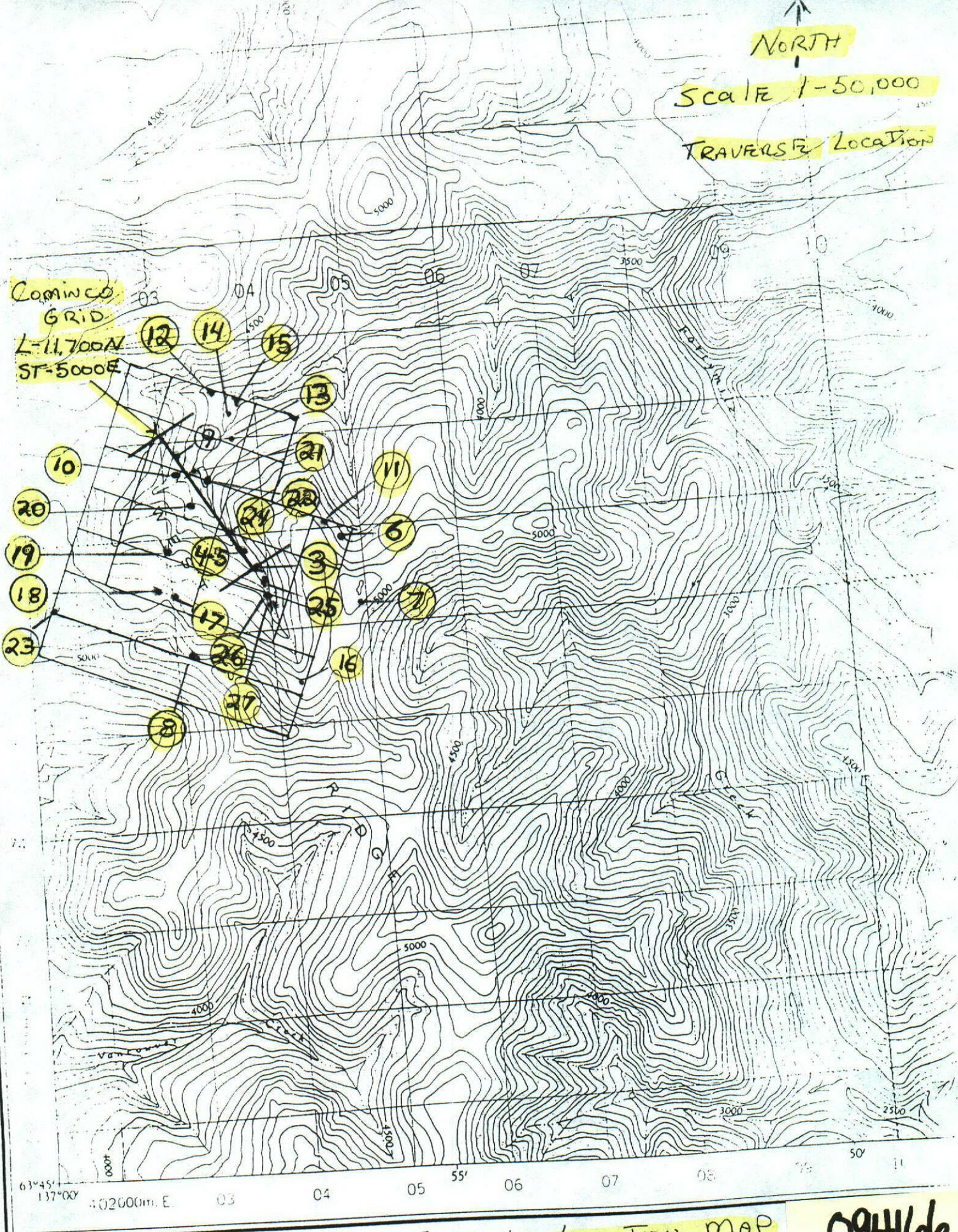
78

NORTH

Scale 1-50,000

TRAVELER Location

COMINCO
GRID
L-11,700N
ST-5000E



63°45' 137°00' 1:20000m E

SAMPLE Location MAP

094166

ALPINE 1-38
Claims

NTS # 115 P/15

Produced and printed by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF MINES AND TECHNICAL SURVEYS, 1961, from air photographs taken in 1949 and 1953.



CERTIFICATE OF ANALYSIS

iPL 99H0822

2036 Columbia Street
 Vancouver, B.C.
 Canada V5Y 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898

INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories
 Project: PO#05742

13 Samples
 13=Pulp

[082216:47:34:99090399]

Out: Sep 03, 1999
 In : Aug 31, 1999

Page 1 of 1
 Section 1 of 1

| Sample Name | Ag ppm | Cu ppm | Pb ppm | Zn ppm | As ppm | Sb ppm | Hg ppm | Mo ppm | Tl ppm | Bi ppm | Cd ppm | Co ppm | Ni ppm | Ba ppm | W ppm | Cr ppm | V ppm | Mn ppm | La ppm | Sr ppm | Zr ppm | Sc ppm | Ti % | Al % | Ca % | Fe % | Mg % | K % | Na % | P % |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|------|
| ALPAA99 S12 | P 0.6 | 39 | 24 | 242 | 172 | < | < | 1 | < | < | 3.3 | 13 | 35 | 108 | < | 18 | 31 | 1129 | 24 | 17 | 1 | 2 | 0.02 | 1.17 | 0.25 | 2.64 | 0.63 | 0.05 | 0.02 | 0.05 |
| ALPAA99 S15 | P 0.2 | 17 | 16 | 54 | 84 | < | < | 2 | < | < | < | 14 | 14 | 129 | < | 21 | 39 | 1121 | 14 | 16 | < | 1 | 0.02 | 1.39 | 0.21 | 2.56 | 0.36 | 0.03 | 0.02 | 0.06 |
| ALPS99 SS02 | P 0.2 | 24 | 43 | 183 | 59 | < | < | 1 | < | < | < | 10 | 26 | 87 | < | 16 | 26 | 810 | 22 | 30 | 1 | 1 | 0.01 | 1.07 | 0.48 | 2.38 | 0.34 | 0.03 | 0.02 | 0.07 |
| ALPSR99 S03 | P 0.9 | 43 | 41 | 102 | 122 | < | < | 1 | < | < | < | 10 | 26 | 61 | < | 12 | 14 | 292 | 26 | 8 | 1 | 1 | < | 0.85 | 0.03 | 3.86 | 0.24 | 0.05 | 0.02 | 0.05 |
| 99S05 | P 0.7 | 185 | 13 | 57 | 28 | < | < | 2 | < | 43 | < | 11 | 26 | 109 | 5 | 23 | 43 | 244 | 15 | 55 | 1 | 3 | 0.05 | 2.07 | 0.18 | 5.24 | 0.37 | 0.14 | 0.08 | 0.07 |
| 99S06 | P 0.8 | 314 | 24 | 113 | 16 | < | < | 2 | < | 201 | < | 20 | 43 | 134 | < | 27 | 46 | 676 | 15 | 22 | 2 | 3 | 0.05 | 2.10 | 0.20 | 5.33 | 0.46 | 0.11 | 0.03 | 0.07 |
| 99S07 | P 0.9 | 493 | 17 | 97 | < | < | < | 2 | < | 97 | < | 10 | 26 | 179 | < | 26 | 47 | 414 | 15 | 30 | 2 | 3 | 0.05 | 2.65 | 0.20 | 8.07 | 0.35 | 0.05 | 0.06 | 0.07 |
| 99S08 | P 1.5 | 478 | 24 | 163 | < | < | < | 1 | < | 74 | < | 12 | 37 | 176 | < | 29 | 45 | 696 | 17 | 55 | 2 | 4 | 0.05 | 2.75 | 0.28 | 8.57 | 0.35 | 0.07 | 0.09 | 0.06 |
| 99S10 | P 23.0 | 107 | 1382 | 1192 | 2836 | < | < | 1 | < | 31 | 24.3 | 14 | 32 | 89 | < | 12 | 22 | 1030 | 16 | 40 | 1 | 2 | 0.01 | 0.71 | 0.11 | 4.78 | 0.22 | 0.07 | 0.02 | 0.06 |
| ALPAA99 S01 | P 0.3 | 22 | 21 | 65 | 20 | < | < | 3 | < | < | < | 9 | 15 | 205 | < | 17 | 45 | 376 | 17 | 27 | 1 | 4 | 0.04 | 1.09 | 0.89 | 2.59 | 0.41 | 0.14 | 0.03 | 0.25 |
| ALPAA99 S04 | P 0.3 | 31 | 11 | 83 | 17 | < | < | 2 | < | < | < | 11 | 17 | 396 | < | 22 | 51 | 681 | 21 | 78 | 1 | 5 | 0.05 | 1.71 | 0.89 | 2.68 | 0.64 | 0.11 | 0.04 | 0.10 |
| ALPAA99 S02 | P 0.6 | 58 | 11 | 59 | 15 | < | < | 3 | < | < | < | 7 | 17 | 627 | < | 26 | 46 | 305 | 31 | 42 | 1 | 4 | 0.04 | 1.77 | 0.66 | 2.41 | 0.45 | 0.07 | 0.03 | 0.07 |
| ALPAA99 S03 | P 0.2 | 19 | 6 | 67 | < | < | < | 2 | < | < | < | 14 | 24 | 335 | < | 39 | 65 | 705 | 15 | 58 | 1 | 4 | 0.08 | 1.39 | 0.81 | 3.01 | 0.88 | 0.21 | 0.03 | 0.14 |

Location #

- 4 - ALPAA99 S12 - Soil From Cominco old grid L-10+400N ST-5000E
- 5 - ALPAA99 S15 - Soil " " " " L-10+400N ST-4850E
- 6 - ALPAA99 S02 - Soil "
- 7 - ALPSR99 S03 - Soil " OFF claim block
- 8 - ALP99 S10 - Soil

ALPINE claim

1-38

NTs # 115 P115

24/08/99

Certificate of Analysis

Page 1

Shawn Ryan

WO# 05730

Certified by

| Sample # | Au
ppb |
|-----------------------|--|
| MCSR99SS01 | 365 |
| MCSR99SS02 | 12 |
| MCSR99SS03 | 8 |
| MCSR99SS04 | <5 |
| MCSR99SS05 | <5 |
| MCSR99SS06 | 14 |
| MCSR99SS07 | 11 |
| MCSR99SS08 | 13 |
| MCSR99SS09 | <5 |
| MCSR99SS05 | 9 |
| SCSR99SS06 | 378 |
| SCR99FSS01 | <5 |
| SCRF99SS02 | 77 |
| SCRF99SS03 | 5 |
| MCSR99S18 | <5 |
| ALPBB99S01 | <5 - Soil From L-11+400N BL 5000E |
| ALPBB99S06 | <5 - Soil From BL 5000E ST-11+450N |
| ALPBB99S07 | 5 - Soil From L-11+500N BL 5000E |
| ALPCC99S07 | <5 - Soil From L-11+300N ST 4850E |
| ALPCC99S08 | <5 - Soil From 50m Down Hill / South of ALPCC99S07 |
| ALPAA99S11 | 11 - Soil From L10+400N ST 5050E |
| ALPAA99S12 | 18 - Soil From " ST 5000E |
| ALPAA99S13 | 5 - Soil From " ST 5000E |
| ALPAA99S14 | <5 - Soil From " ST 4950E |
| ALPAA99S15 | 26 - Soil From " ST 4900E |
| ALPS99SS01 | 5 - silt From Location # 11 |
| ALPS99SS02 | 7 - off claim Block |
| ALPS99SS03 | 6 - off claim Block |
| ALPS99SS04 | 6 - silt From Location # 12 |
| ALPS99SS05 | 8 - silt From Location # 13 |

①
②
③
④

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③

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⑫

⑬

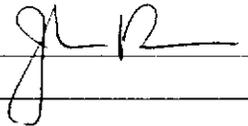
24/08/99

Certificate of Analysis

Page 2

Shawn Ryan

WO#05730

Certified by 

| Sample # | Au
ppb | |
|--|---------------|--|
| s ALPSR99SS06 | 11 | SIIT From Location # 14 |
| s ALPSR99S02 | <5 | Soil From Location # 15 |
| s ALPSR99S03 | 18 | Soil From Location # 15 old cat TRENCH (PLACER) |
| s ALPSR99S04 | 18 | Soil From Location # 16 |
| s ALPSR99S05 | 66 | 1) |
| s ALPSR99S06 | 222 | 2) Calcium |
| s ALPSR99S07 | 182 | 3) Calcium |
| s ALPSR99S08 | 267 | 4) Calcium |
| s ALPSR99S09 | 8 | Calcium |
| s ALPSR99S10 | 42 | Alpink Soil From Location # 8 |
| s ALPF99S01 | <5 | Soil From Location # 17 |
| s ALPF99S02 | 5 | Soil From Location # 18 |
| s ALPF99S03 | 11 | Soil From Location # 18 |
| m ALPF99S04 | 10 | SIIT From Location # 19 |
| m ALPF99S05 | 15 | SIIT From Location # 20 |
| m ALPCASS | 24 | SIIT From Location # 21 |
| r ALPSR99R02 | 12 | Rock From " # 22 |
| r ALPSR99R16 | 123 | Rock From " # 23 |
| r ALPSR99R31 | 931 | Rock From " # 26 |
| r ALPSR99R32 | 14 | Calcium |
| r ALPSR99R33 | <5 | Rock From Location # 24 |
| r ALPSR99R36 | 33 | Rock From Location # 25 |
| r ALPSR99R37 | 13 | Rock From Location # 26 |
| r ALPSR99R38 | <5 | Rock From Location # 27 |
| 26 Soil on ALPINK x 12.00 = 312
6 Rock on ALPINK x 15.00 = 90 | | |

