# ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 89.05.04

ASSESSMENT REPORT 17660 MINING DIVISION: Skeena

PROPERTY: Croesus
LOCATION: LAT 56 00 00 LONG 129 31 00
UTM 09 6205986 467775
NTS 104A04E 103P13E
CLAIM(S): Croesus 1-4
OPERATOR(S): Teuton Res.
AUTHOR(S): Cremonese, D.M.
REPORT YEAR: 1988, 21 Pages
COMMODITIES
SEARCHED FOR: Gold,Silver,Copper,Lead,Zinc
GEOLOGICAL
SUMMARY: Volcaniclastic rocks of the Lower Jurassic Hazelton Group are overlain to the east by Middle to Upper Jurassic argillites of the Bowser Group. A zone of pyritized tuffs parallel to the contact contains copper/gold mineralization possibly related to quartz stockworks. Stream sediments contain anomalous levels of copper, gold, lead, zinc, molybdenum and cobalt.

WORK
DONE: Geochemical
ROCK 23 sample(s) ;ME
Map(s) - 3; Scale(s) - 1:5000
SILT 9 sample(s) ;ME

# ASSESSMENT REPORT
ON
GEOCHEMICAL WORK
ON THE FOLLOWING CLAIMS

CROESUS 1 ..... 6129(5)
CROESUS 2 ..... 6130(5)
CROESUS 3 ..... 6131(5)
CROESUS 4 ..... 6132(5)

CROESUS GROUP

located

34 KM EAST OF
STEWART, BRITISH COLUMBIA
SKEENA MINING DIVISION

56 degrees 00 minutes latitude
129 degrees 31 minutes longitude

N.T.S. 104A/4E, 104A/3W, 103P/13E & 103P/14W

PROJECT PERIOD: Sept. 6-10, 1987

ON BEHALF OF
TEUTON RESOURCES CORP.
VANCOUVER, B.C.



REPORT BY

D. Cremonese, P. Eng.
200-675 W. Hastings
Vancouver, B.C.

Date: July 30, 1988

# TABLE OF CONTENTS

# 1. INTRODUCTION

## A. Property, Location, Access and Physiography

The property is located about 30 km east of Stewart, British Columbia. Nearest paved road is the Bear River Highway about 13 km to the north. Access is presently limited to helicopter, either from the base at Stewart or from Meziadin Junction. There is a possibility that logging roads running west from the Meziadin-Kitwanga Highway may one day provide the closest approach to the property.

The Croesus claims are centered roughly at the foot of Del Norte Glacier, which flows east out of the Cambria Icefield and gives rise to Del Norte Creek. This creek is difficult to cross at most times during the Stewart field season--traverses are most safely made by contouring above the toe of the glacier. Elevations vary from approximately 1050 meters on the creek bed at the eastern edge of the property to more than 2000 meters near ridge tops. Vegetation in the area changes from a mantle of mountain hemlock and balsam at low-lying elevations to shrubs, mountain grasses and heather at higher elevations. Slopes range from moderate to steep to precipitous; however, most of the geologically interesting areas of the property can be accessed without resort to mountaineering equipment.

Climate is severe, particularly at higher elevations. Heavy snowfalls in winter and rain in the short summer working season are typical of the Stewart area.

## B. Status of Property

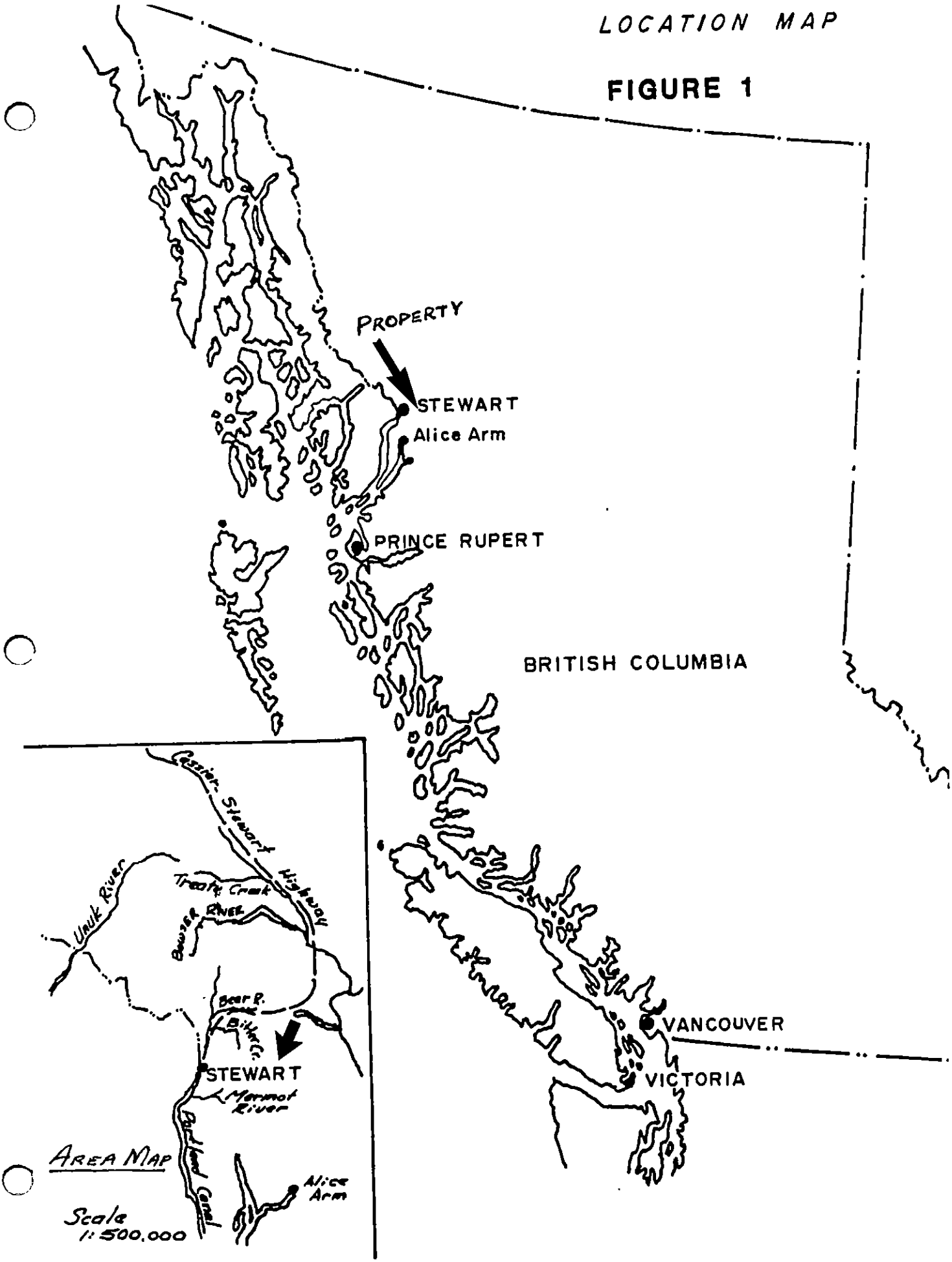
Relevant claim information is summarized below:

| Name | Record No. | No. of Units | Record Date |
|---|---|---|---|
| Croesus 1 | 6129(5) | 15 | May 4, 1987 |
| Croesus 2 | 6130(5) | 18 | May 4, 1987 |
| Croesus 3 | 6131(5) | 20 | May 4, 1987 |
| Croesus 4 | 6132(5) | 20 | May 4, 1987 |

Claim locations are shown on Fig. 2 after government N.T.S. maps. The claims are registered in the name of the author, who holds on trust for Teuton Resources Corp. of Vancouver, British Columbia.

## C. History

Records indicate that the property was originally staked as


LOCATION MAP
FIGURE 1
PROPERTY
STEWART
Alice Arm
PRINCE RUPERT
BRITISH COLUMBIA
VANCOUVER
VICTORIA
Cassiar-Stewart Highway
Unuk River
Treaty Creek
Bowser River
Bear R.
Bitter Cr.
STEWART
Mammot River
Portland Canal
Alice Arm
AREA MAP
Scale
1:500,000

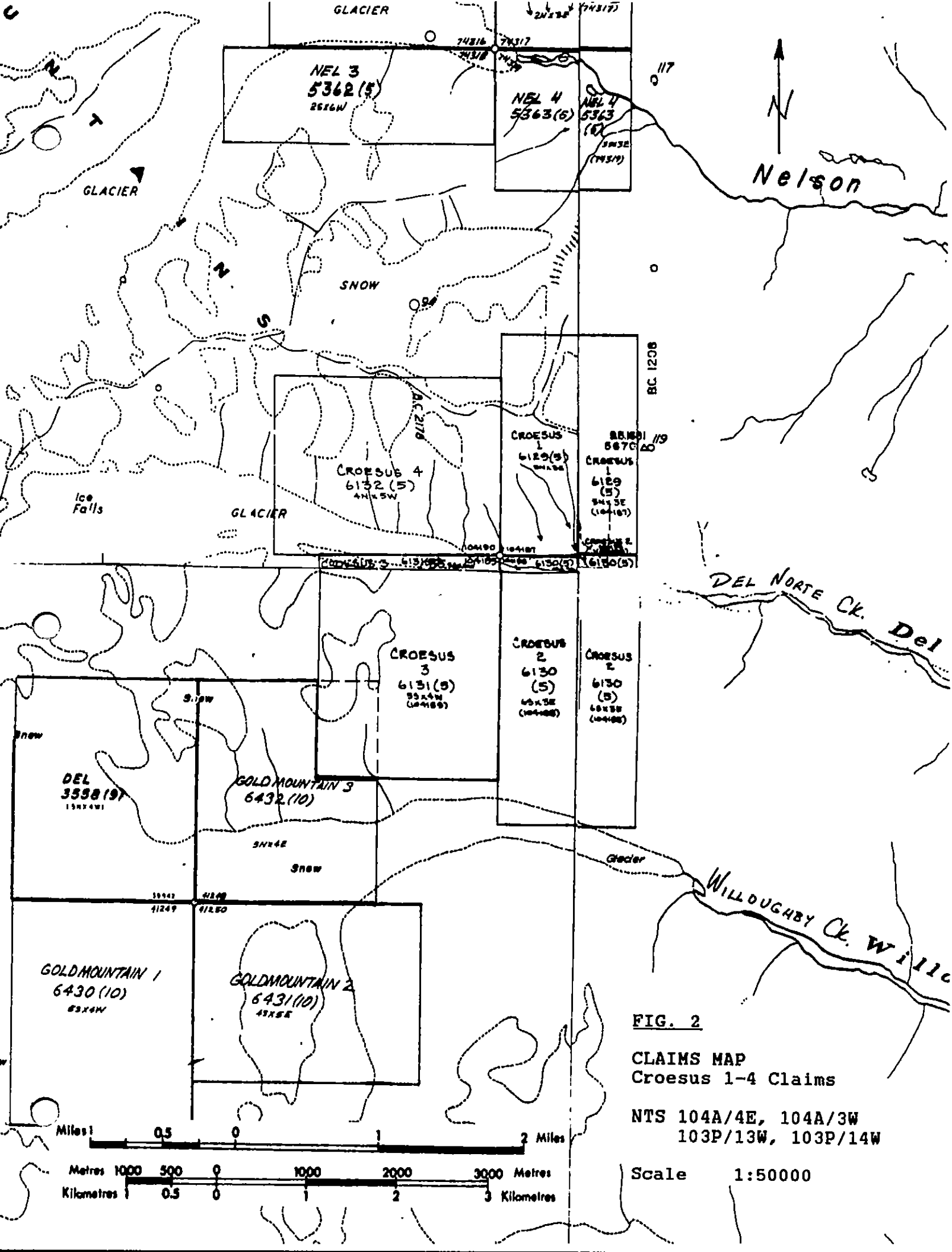



FIG. 2

CLAIMS MAP
Croesus 1-4 Claims

NTS 104A/4E, 104A/3W
103P/13W, 103P/14W

Scale 1:50000

the "Bullion" claim, sometime prior to 1913. This early work probably started a little after the small-scale placer gold operations reported to have taken place on Nelson, Del Norte and Willoughby Creeks.

Between this first staking and 1922, when the property was restaked as the Delnorte Group by Green and Ficklin of Hyder, Alaska, a small adit was driven to test a zone of quartz veining paralleling the contact between Bowser sediments and Hazelton volcanicalstics. In 1939, Owen McFadden of Stewart, backed by a syndicate, explored the ground by a series of fifteen open-cuts and some small pop-holes. At this time the property was known as the "Meziadin Group". The property was also visited by Dr. Mandy of the B.C. Department of Mines; Mandy examined and sampled several of the showings. Samples results indicated erratic low-grade gold mineralization associated with copper and occasional zinc values (Ref. 7, 1939).

Exploration carried out during this period was severely restricted by difficult access. The trail leading into the Del Norte Creek drainage from the end of the Bear River road was over 75 km long and entailed two difficult mountain crossings.

In the 1960's the area was explored again by companies searching for porphyry copper deposits. This, and subsequent work, was supported by helicopter. In the late 1970's and early 1980's, renewed exploration efforts concentrated on precious metals. Apparently, this work did not uncover anything of importance in the Del Norte Creek area (Ref. 6).

## D. References

1. GROVE, E.W. (1971): Bulletin 58, Geology and Mineral Deposits of the Stewart Area. B.C.M.E.M.P.R.

2. GROVE, E.W. (1982): Unuk River, Salmon River, Anyox Map Areas. Ministry of Energy, Mines and Petroleum Resources, B.C.

3. GROVE, E.W. (1987): Geology and Mineral Deposits of the Unuk River-Salmon River-Anyox Area, Bulletin 63, BCMEMPR

4. ALLDRICK, D.J.(1984); Geological Setting of the Precious Metals Deposits in the Stewart Area, Paper 84-1, Geological Fieldwork 1983", B.C.M.E.M.P.R.

5. ALLDRICK, D.J.(1985); "Stratigraphy and Petrology of the Stewart Mining Camp (104B/1E)", p. 316, Paper 85-1, Geological Fieldwork 1984, B.C.M.E.M.P.R.

6. DOWNING, B.W. (1983); "Report on the Wilby Creek Group,

Meziadin Lake, B.C.", private report for Viscount Resources Corp.

7. BCDM SPECIAL REPORT 3 (1939); "Meziadin Group"--Geological sketch and sample map by Dr. J.T. Mandy, Resident Engineer, Prince Rupert.

8. BCDM MINISTER OF MINES ANNUAL REPORTS;
1922-77
1939-67

## E. Summary of Work Done.

The rock and silt geochemical survey conducted over the claims area was undertaken by Amphora Resources (geologist Dr. W.D. Groves, P. Eng.; headed the field program). This program was part of a larger work program carried out over the Stewart area properties of Teuton Resources under the supervision of the author.

The work proceeded from Sept. 6 to Sept. 10, 1987, consisting of rock geochemical/character sampling (23 samples) and stream sediment sampling (9 samples). The crew travelled from Vancouver to Stewart and back by vehicle; transportation of personnel and supplies from Stewart to the property and back was by helicopter (Vancouver Island Helicopters).

Both the stream sediment and rock geochemical samples were analysed for gold by standard AA techniques, as well as for 30 elements by I.C.P. (Inductively Coupled Argon Plasma).

# 2. TECHNICAL DATA AND INTERPRETATION

## A. Regional Geology

The property lies along the eastern edge of a broad, north-northwest trending belt of Triassic and Jurassic volcanic and sedimentary rocks termed by Grove (1971) as the "Stewart Complex". This belt is bounded to the west by the Coast Crystalline Belt (mainly granodiorites) and to the east by a thick series of sedimentary rocks known as the Bowser Assemblage (Middle Jurassic to Upper Jurassic age).

A major contact between sedimentary rocks of the Bowser Group and volcaniclastics of the lower Jurassic Hazelton volcaniclastics passes north-south between Strohn Creek and the White River. In between these two watercourses are three west-east flowing streams originating in the Cambria icefield and all having the distinction of containing placer gold. These streams, from north to south, are Nelson Creek, Del Norte (also known as

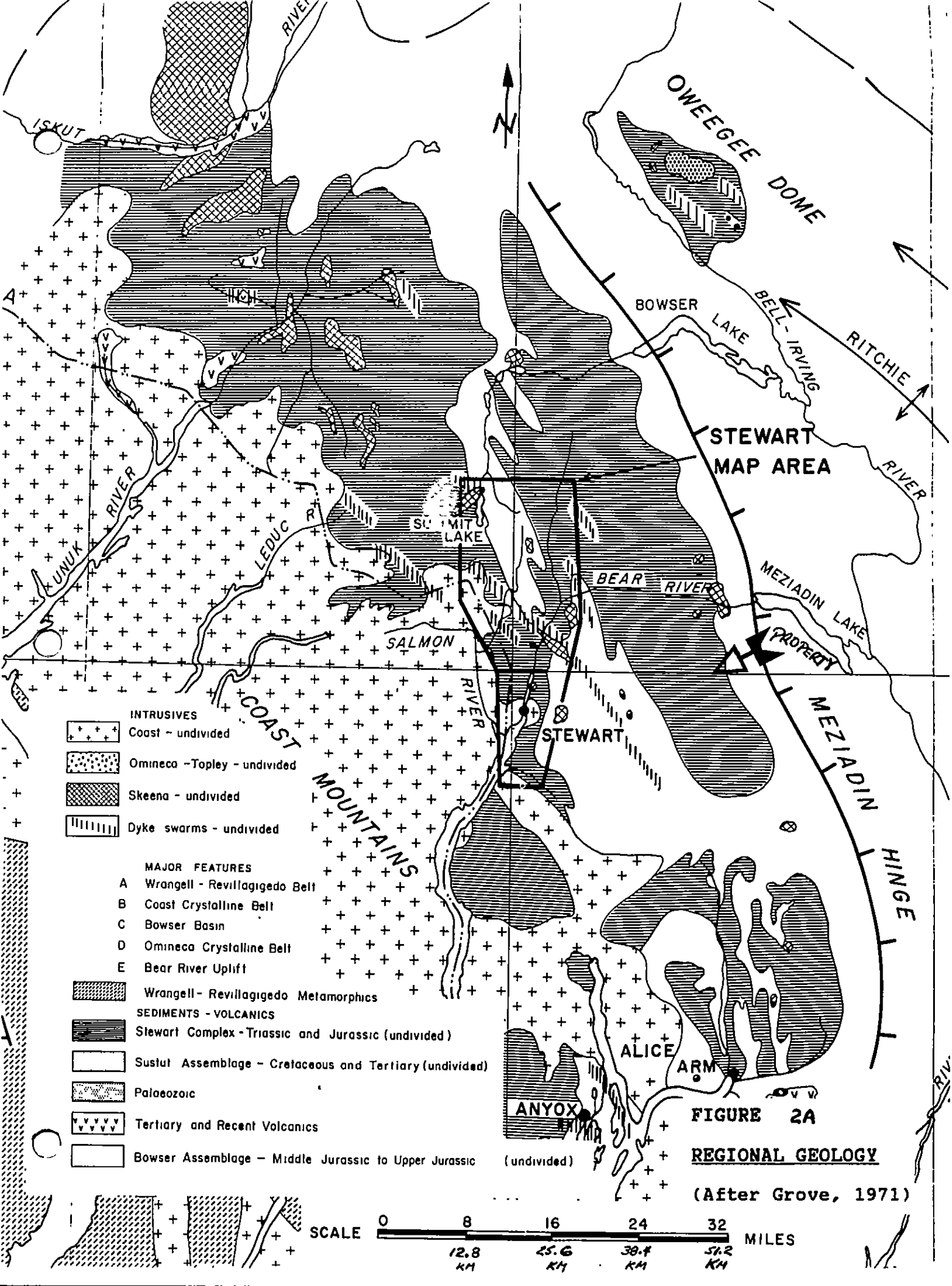



FIGURE 2A

REGIONAL GEOLOGY

(After Grove, 1971)

"Porter") Creek and Willoughby Creek. The source of the placer gold has intrigued Stewart area prospectors for many years but has never been located. Despite the favourable indications for gold mineralization, the area has received little attention from government geologists and the best studies are in private reports. The author was able to locate a good description of regional geology in this area from such a report--a lenghty excerpt from Downing (1983) follows:

"Tectonically, the Bowser-Hazelton contact appears to be a thrust zone with Bowser sediment "slices" occurring within and overlying the Hazelton volcaniclastics to the west. No Hazelton rocks were noted overlying the Bowser sediments to the east. The Bowser sediments include shale, silt-mudstone, wacke and conglomerate while andesitic to rhyolitic tuffs and flows, limestone and argillite make up the Hazelton assemblage. The predominant dip direction of bedding in the Bowser sediments is northeasterly. Along the west fork to Suprise Creek, the Hazelton-Bowser contact is well preserved--tuffs and coarse tuff breccia overlain by a basal conglomerate grading to wacke-silt-mudstone-shale.

Several medium to coarse-grained porphyritic (potash feldspar) quartz monzonite and biotite granodiorite stocks occur along the contact zone. Other intrusives include augite to hornblende plagioclase porphyries of possible volcanic origin and northwest trending lamprophyre and hornblende porphyry dykes which in places form a dyke swarm, all of which occur predominantly south of the Stewart highway (Nelson-Porter-Willoughby Creeks area). [Note: Downing uses "Porter" to describe Del Norte Creek--this is an alternative name].

Metamorphism is predominantly of the greenschist facies on a regional scale. Andalusite occurs in the argillites on the west fork to Surprise Creek. Biotite hornfels zones are associated with a majority of the quartz monzonite-granodiorite stocks.

The east-west flowing Strohn and Bear Creeks (Stewart highway section) occur along a major tectonic break which transects the northerly trending structural fabric in the Stewart area. The sense and amount of displacement along this break (strike slip fault?) is unknown. Displacement along the Bowser-Hazelton contact in the Willoughby-Bowser Lake area is unknown, however, offset along this contact on the Long Lake fault north of Stewart indicates approximately 1500 feet (Grove, 1971). A dominant pyritic shear zone up to ten meters across occurs near the Hazelton-Bowser contact from Willoughby to Porter Creeks."

Property location relative to regional geology is shown on Fig. 2A.

B. Property Geology

The local geology of the property area was sketched by Dr. Mandy, B.C. Department of Mines in 1939 (Ref. 7). Mandy shows the major volcaniclastic-sediment (Hazelton-Bowser) contact running roughly north-south, about 1,000 m or so east of the Legal Post for the Croesus claims. The volcaniclastics are described as a sequence of andesitic breccia (some lava), andesite, andesite tuff and lava locally pyritized and silicified, carbonate tuff locally pryitized and transitional tuffs/argillites.

Mandy also mapped an intrusive described as "basic igneous rock" outcropping west of the pyritized tuffs/Bowser argillites. Based on field observations made during the 1987 survey, geologist W.D. Groves, P.Eng., has classified this unit as "massive, blocky, volcanic flows". This nomenclature has been used in Figs. 3-5. Like Mandy, Groves also noted pervasive carbonate alteration.

According to Downing (1983), massive sulphide boulders containing pyrite-pyrrhotite-sphalerite and occasional galena have been found in Del Norte Creek. Apparently the source of these boulders remains to be located.

## C. Geochemistry - Rock Samples

### a. Introduction

Twenty-three float and character rock geochem samples were collected by geologist W. D. Groves, P.Eng., during reconnaissance surveys over the Croesus 1-4 claims. Sample locations and sample type are shown on Fig. 3; gold (ppb) and silver (ppm) values in Fig. 4; and, copper (ppm), lead (ppm) and zinc (ppm) values in Fig. 5. The maps were drawn at a scale of 1:5000. Sample sites were plotted in the field on a base map prepared from a government topographic map. Sample locations were fixed according to field altimeter readings and by reference to air photos.

### b. Treatment of Data

The 23 rock geochem samples collected during the 1987 work program comprise too small a set to utilize standard statistical methods for determining threshold and anomalous levels. In lieu of such treatment, the author has chosen a simple "rule of thumb" method based on reference to several rock geochem programs of similar character carried out in the Stewart area over the last eight years. Anomalous levels have thus been defined as follows:

| Element | Anomalous Above |
|---|---|
| Gold | 100 ppb |
| Silver | 3.6 ppm |
| Copper | 200 ppm |
| Lead | 160 ppm |
| Zinc | 600 ppm |

c. Discussion

Samples containing anomalous mineral content on the basis indicated above have been described below along with respective assays ("NA" indicates non-anomalous).

6679 Float. Chip from magnetite-pyrrhotite boulder located below toe of Del Norte glacier.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 830 ppb | Copper | - | 823 ppm |
| Silver | - | 26.7 ppm | Lead | - | 202 ppm |
| | | | Zinc | - | 24224 ppm |

6680 Float. Argillite with copper stain (tetrahedrite?).

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 1105 ppb | Copper | - | 13134 ppm |
| Silver | - | 22.4 ppm | Lead | - | 743 ppm |
| | | | Zinc | - | 2495 ppm |

6681 Random chips over area 10 m by 10m, sericite schist.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 215 ppb | Copper | - | 314 ppm |
| Silver | - | NA | Lead | - | NA |
| | | | Zinc | - | NA |

6683 Grab from sulphide-rich zone, 0.3 m thick, in pyritized tuff, N45/steep.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 1210 ppb | Copper | - | 268 ppm |
| Silver | - | NA | Lead | - | NA |
| | | | Zinc | - | NA |

6684 Same site as 6683, a few meters along zone.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 380 ppb | Copper | - | 474 ppm |
| Silver | - | NA | Lead | - | NA |
| | | | Zinc | - | 873 ppm |

6685 Float sample, gossanous material, copper stain.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | NA | Copper | - | 584 ppm |
| Silver | - | NA | Lead | - | NA |
| | | | Zinc | - | NA |

6686 Random chips from gossanous, pyritized tuff.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 595 ppb | Copper | - | 612 ppm |
| Silver | - | 4.5 ppm | Lead | - | NA |
| | | | Zinc | - | 641 ppm |

6688 Grab from gossanous area; hard, silicified, iron-stained glacial surface.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 185 ppb | Copper | - | NA |
| Silver | - | NA | Lead | - | 1209 ppm |
| | | | Zinc | - | 887 ppm |

6689 Random chips from talus fan along 10 meters, gossanous material from pyritized tuff.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 109 ppb | Copper | - | NA |
| Silver | - | 10.1 ppm | Lead | - | NA |
| | | | Zinc | - | 3114 ppm |

D3#1 Random chips along 5m, pyritized tuff, south side of Del Norte Creek.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 113 ppb | Copper | - | 218 ppm |
| Silver | - | NA | Lead | - | 484 ppm |
| | | | Zinc | - | 612 ppm |

D3#3 Same as D3#1

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | NA | Copper | - | NA |
| Silver | - | NA | Lead | - | 268 ppm |
| | | | Zinc | - | NA |

6128 Same as previous two samples; lower elevation

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | NA | Copper | - | 280 ppm |
| Silver | - | NA | Lead | - | NA |
| | | | Zinc | - | NA |

6129 Same again; lower elevation

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 196 ppb | Copper | - | 3541 ppm |
| Silver | - | NA | Lead | - | NA |
| | | | Zinc | - | NA |

6693 Grab from 1.5 m wide quartz-sulphide pod, roughly 30 m long, attitude 50W/65SE, in prominent, yellow-stained gossan lying below cirque basin.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 19200 ppb | Copper | - | 287 ppm |
| Silver | - | 9.3 ppm | Lead | - | NA |
| | | | Zinc | - | NA |

6694 Random chips over 5 m from large yellow-stained gossan

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 460 ppb | Copper | - | 187 ppm (SA*) |
| Silver | - | NA | Lead | - | 165 ppm |
| | | | Zinc | - | 554 ppm SA |

6695 Same as above, higher elevation.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 510 ppb | Copper | - | 177 ppm SA |
| Silver | - | NA | Lead | - | 315 ppm |
| | | | Zinc | - | 587 ppm SA |

6696 Same as above, higher elevation.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 95 ppb SA | Copper | - | 222 ppm SA |
| Silver | - | NA | Lead | - | 163 ppm |
| | | | Zinc | - | NA |

6697 Same as above, higher elevation.

| | | | | | |
|---|---|---|---|---|---|
| Gold | - | 152 ppb | Copper | - | 178 ppm SA |
| Silver | - | NA | Lead | - | NA |
| | | | Zinc | - | 1451 ppm |

*SA indicates Sub-Anomalous

The rock geochemical values indicate a strong gold-copper association, and to a lesser extent a gold-lead/zinc association. Significantly, the highest gold value (#6693) obtained was accompanied by weakly anomalous to sub-anomalous values in base metals. From the sample description it appears that quartz content was the significant factor, although it is possible that the sulfides had been leached out. The high gold sample also featured a gold-silver ratio of more than 2:1.

## D. Geochemistry - Stream Sediment Samples

### a. Introduction

Nine stream sediment samples were collected from a single stream draining south-southeast into Del Norte Creek. The bed of this stream cuts the edge of a pyritized tuff in the upper portions of its course, passing close to the mouth of an old adit.

Locations, marked as circles on Fig. 3, were fixed according to field altimeter readings and reference to airphotos. Gold (ppb) and silver (ppm) values are shown on Fig. 4; copper (ppm), lead (ppm) and zinc (ppm) are shown on Fig. 6.

b. Treatment of data

The silt samples shown on page 3 of the Acme Analytical Certificates accompanying this report have been redesignated S-1 to S-9 for ease of reference.

The sample set is definitely too small to apply standard statistical methods for determining threshold and anomalous levels. However, by referring to many silt geochemical surveys conducted in the Stewart area in the last ten years, it is possible to set "anomalous" levels, regionally speaking, as above the values indicated below:

| Element | Anomalous Above |
|---|---|
| Gold | 50 ppb |
| Silver | 1.2 ppm |
| Copper | 100 ppm |
| Lead | 80 ppm |
| Zinc | 300 ppm |

c. Discussion

With the exception of silver, all of the nine samples taken during the 1987 stream sediment survey returned moderate to highly anomalous levels in the five elements listed in the previous section. Ranges for each of the elements are itemized below.

| | | | |
|---|---|---|---|
| Gold | 85 | to 2040 | ppb |
| Silver | 0.8 | to 2.6 | ppm |
| Copper | 366 | to 5328 | ppm |
| Lead | 101 | to 868 | ppm |
| Zinc | 751 | to 3003 | ppm |

The range of values from Sample S-1 to Sample S-9 does not show the distinct type of "tapering" effect one normally sees with distance downstream from a putative mineralized source. Highs, with the exception of copper/moly, appear to fairly randomly distributed. This suggests that the anomalous metal content in the stream sediments derives from disseminated mineralization in the bordering pyritized tuff. Although this is not a certainty, anomalous rock geochem results from the tuff appear to back this hypothesis.

Copper/moly values appear to peak at Sample S-4, which returned values of 5,328 and 103 ppm, respectively, both extremely anomalous. Below this values taper off somewhat erratically. The presence of moly suggests the proximity of a stock and a possible porphyry situation. Cobalt values to 103 ppm are also unusually anomalous, on a regional basis. Normal cobalt associa-

tions such as with nickel or arsenic are not evident from the stream geochem data.

## E. Field Procedure and Laboratory Technique

Silt samples were taken in the field by sieving fine stream sediments through a -40mesh nylon screen till approximately 300 to 500 grams of material was collected. This was rinsed from a plastic collecting basin into a standard Kraft Bag. The bags were then marked, allowed to dry, and shipped by bus to Vancouver for analysis at the Acme Analytical Laboratories facility on 852 East Hastings Street.

After standard sample preparation, a .500 gram subsample was digested with 3ml of 3-1-2 HCl-HNO3-H20 at 95 degrees Centigrade for one hour, then diluted to 10 ml with water. The resulting solution was tested by Inductively Coupled Argon Plasma to yield quantatitive results for 30 elements. Gold was analysed by standard atomic absorption methods from a 10 gram subsample.

Rock geochem and character samples were analysed in the same manner as described above.

## F. Conclusions

The 1987 geochem survey located several anomalous gold sample sites within a band of pyritized tuffs cutting north-south across the Croesus 1 and 2 claims. A quartz-sulphide pod outcropping in a gossanous area in the pyritized tuff band on the Croesus 2 claim returned a highly anomalous gold value of 19,200 ppb. The anomalous gold values obtained in rock geochemistry were often accompanied by anomalous copper values, and to a lesser extent, lead, zinc and occasionally silver values.

Limited stream sediment sampling on the Croesus 1 claim indicated highly anomalous values in gold, copper (moly), lead and zinc. The strength of the anomalies, in conjunction with historic reports of massive sulphide float boulders in Del Norte Creek, suggests that further work may uncover mineralization of economic importance.

Detailed follow-up of all anomalous areas is warranted. A closely-spaced rock geochem grid survey should be undertaken to test the pyritized tuff exposures. Promising areas should be trenched, sampled and geologically mapped.

SIGNED:
July 30, 1988

D. Cremonese, P.Eng.

# APPENDIX I -- WORK COST STATEMENT

| | |
|---|---|
| **Field Personnel: Contractor -- Amphora Resources** | |
| W.D. Groves, Ph.D., P.Eng., Geologist | |
| Sept. 6, 7, 8, 9, 10 5 days @ $400/day | $ 2,000 |
| Dale Sloan, Assistant | |
| Sept. 6, 7, 8, 9, 10 5 days @ $150/day | $ 750 |
| **Helicopter -- Vancouver Island Hel. (Stewart Base)** | |
| Mob/demob, crew drop-offs/pick-ups | |
| 1.2 hrs. @ $571.50 | 686 |
| **Food -- 10 man-days @ $25/man-day** | 250 |
| **Personnel: mob/demob (home base to Stewart, return)** | |
| 50% of $980 (split with other project) | 490 |
| **Field Supplies, radio and camp rental, etc.** | 160 |
| **Sample transport: Stewart-Vancouver** | 40 |
| **Assays -- Acme Analytical** | |
| Geochem Au, I.C.P. and silt sample preparation | |
| 9 @ $11 | 99 |
| Geochem Au, I.C.P. and rock sample preparation | |
| 23 @ $13.25/sample | 305 |
| **Report Costs** | |
| Report and map preparation, compilation and research | |
| D. Cremonese, P.Eng., 2 days @ $300/day | 600 |
| Draughting -- F & L Chong | 223 |
| Word Processor - 4 hrs. @ $25/hr. | 100 |
| Copies, report, jackets, maps, etc. | 70 |
| TOTAL..... | $ 5,773 |

## APPENDIX II - CERTIFICATE

I, Dino M. Cremonese, do hereby certify that:

1. I am a mineral property consultant with an office at Suite 200-675 W. Hastings, Vancouver, B.C.

2. I am a graduate of the University of British Columbia (B.A.Sc. in metallurgical engineering, 1972, and L.L.B., 1979).

3. I am a Professional Engineer registered with the Association of Professional Engineers of the Province of British Columbia as a resident member, #13876.

4. I have practiced my profession since 1979.

5. This report is based upon work carried out on the Croesus 1-4 mineral claims, Skeena Mining Division in September of 1987. Reference to field notes and maps made by geologist W.D. Groves, Ph.D., P.Eng. I have full confidence in the abilities of all samplers used in the 1987 geochemical program and am satisfied that all samples were taken properly and with care.

6. I am a principal of Teuton Resources Corp., beneficial owner of the Croesus 1-4 claims: this report was prepared solely for satisfying assessment work requirements in accordance with government regulations.

Dated at Vancouver, B.C. this 30th day of July, 1988.

D. Cremonese

D. Cremonese, P.Eng.

# APPENDIX III

## ASSAY CERTIFICATES

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

# GEOCHEMICAL ICP ANALYSIS

.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 MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-2 ROCK P3-SILT AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 12 1987 DATE REPORT MAILED: Sept 25/87 ASSAYER. D. Toye. .DEAN TOYE. CERTIFIED B.C. ASSAYER

TEUTON RES. File # 87-4163 Page 1

| SAMPLE# | MO PPM | CU PPM | PB PPM | ZN PPM | AG PPM | NI PPM | CO PPM | MN PPM | FE % | AS PPM | U PPM | AU PPM | TH PPM | SR PPM | CD PPM | SB PPM | BI PPM | V PPM | CA % | P % | LA PPM | CR PPM | MG % | BA PPM | TI % | B PPM | AL % | NA % | K % | W PPM | AU* PPB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONCAMP D1-2 R 6651 | 2 | 649 | 62 | 126 | 1.3 | 3 | 13 | 891 | 4.63 | 8 | 5 | ND | 1 | 38 | 1 | 3 | 2 | 30 | 1.51 | .035 | 2 | 3 | .70 | 17 | .08 | 2 | 1.13 | .03 | .06 | 1 | 10 |
| CONCAMP D1-2 R 6653 | 2 | 34 | 99 | 372 | .7 | 4 | 16 | 1351 | 5.73 | 14 | 5 | ND | 2 | 51 | 5 | 5 | 2 | 40 | 1.87 | .058 | 4 | 3 | .93 | 21 | .17 | 2 | 1.22 | .04 | .12 | 1 | 19 |
| CONCAMP D1-2 R 6654 | 2 | 473 | 17 | 74 | 1.0 | 2 | 8 | 511 | 3.58 | 6 | 5 | ND | 3 | 55 | 1 | 2 | 2 | 29 | 2.34 | .068 | 5 | 3 | .51 | 33 | .15 | 3 | 1.05 | .05 | .16 | 1 | 10 |
| CONCAMP D1-2 R 6655 | 1 | 10 | 10 | 61 | .3 | 1 | 5 | 559 | 2.38 | 4 | 5 | ND | 3 | 54 | 1 | 2 | 2 | 24 | 1.36 | .072 | 10 | 1 | .39 | 105 | .16 | 4 | 1.08 | .05 | .14 | 1 | 1 |
| CONCAMP D1-2 R 6656 | 4 | 21 | 28 | 70 | .3 | 2 | 6 | 99 | 9.03 | 16 | 5 | ND | 2 | 53 | 1 | 2 | 2 | 13 | .29 | .040 | 4 | 1 | .12 | 6 | .16 | 4 | .53 | .05 | .17 | 1 | 1 |
| CONCAMP D1-2 R 6657 | 2 | 21 | 25 | 156 | .3 | 3 | 11 | 192 | 3.26 | 6 | 5 | ND | 3 | 39 | 3 | 2 | 2 | 27 | .58 | .064 | 6 | 4 | .39 | 25 | .20 | 6 | 1.10 | .10 | .20 | 1 | 1 |
| CONCAMP D1-2 R 6658 | 4 | 5 | 14 | 15 | .8 | 2 | 6 | 108 | 3.21 | 6 | 5 | ND | 6 | 14 | 1 | 2 | 2 | 13 | .10 | .030 | 7 | 3 | .28 | 20 | .10 | 5 | .50 | .03 | .19 | 1 | 2 |
| CONCAMP D1-2 R 6659 | 7 | 4 | 14 | 19 | .7 | 1 | 5 | 232 | 3.08 | 8 | 5 | ND | 5 | 22 | 1 | 2 | 2 | 33 | .50 | .037 | 8 | 1 | .39 | 28 | .18 | 4 | .48 | .05 | .13 | 2 | 4 |
| CONCAMP D1-2 R 6660 | 8 | 46 | 11 | 47 | .2 | 3 | 3 | 386 | 3.34 | 7 | 5 | ND | 8 | 11 | 1 | 2 | 2 | 17 | .06 | .035 | 12 | 4 | .92 | 72 | .01 | 3 | 1.18 | .04 | .19 | 2 | 2 |
| CONCAMP D1-2 R 6661 | 22 | 4 | 8 | 6 | .6 | 2 | 3 | 44 | 2.08 | 3 | 5 | ND | 9 | 26 | 1 | 2 | 2 | 4 | .04 | .026 | 17 | 2 | .04 | 23 | .01 | 4 | .35 | .05 | .19 | 1 | 1 |
| CONCAMP D-3 R 6662 | 8 | 153 | 27 | 75 | 1.3 | 5 | 20 | 903 | 6.16 | 11 | 5 | ND | 2 | 57 | 1 | 4 | 3 | 33 | 3.70 | .038 | 2 | 5 | .73 | 18 | .12 | 8 | 1.21 | .02 | .07 | 86 | 16 |
| CONCAMP D-3 R 6663 | 1 | 20 | 7 | 54 | .2 | 3 | 6 | 1160 | 1.91 | 2 | 5 | ND | 1 | 188 | 1 | 2 | 2 | 28 | 8.91 | .027 | 3 | 2 | .84 | 1437 | .08 | 4 | 1.05 | .01 | .10 | 1 | 1 |
| CONCAMP D-3 R 6664 | 9 | 14 | 19 | 221 | .2 | 5 | 19 | 3161 | 7.02 | 6 | 5 | ND | 2 | 112 | 1 | 2 | 2 | 22 | 13.85 | .030 | 3 | 1 | 1.38 | 1339 | .01 | 2 | .22 | .01 | .13 | 1 | 1 |
| CONCAMP D-3 R 6665 | 8 | 295 | 334 | 227 | 1.9 | 7 | 23 | 2328 | 7.03 | 15 | 5 | ND | 2 | 80 | 1 | 2 | 2 | 47 | 5.80 | .058 | 6 | 7 | 1.37 | 18 | .02 | 2 | 1.32 | .01 | .17 | 1 | 19 |
| CONCAMP D-3 R 6666 | 20 | 10361 | 21047 | 21027 | 18.2 | 3 | 26 | 1661 | 7.79 | 53 | 5 | ND | 1 | 53 | 108 | 30 | 2 | 49 | 5.35 | .017 | 2 | 3 | .89 | 7 | .01 | 11 | 1.78 | .02 | .31 | 11 | 64 |
| CONCAMP D-3 R 6667 | 2 | 25998 | 38 | 136 | 21.6 | 1 | 30 | 1525 | 12.99 | 96 | 5 | 25 | 2 | 10 | 2 | 2 | 2 | 24 | .83 | .008 | 3 | 1 | .52 | 7 | .01 | 4 | .92 | .03 | .07 | 1 | 27930 |
| CONCAMP D-3 R 6668 | 28 | 336 | 414 | 716 | 2.6 | 7 | 29 | 1315 | 9.98 | 388 | 5 | ND | 3 | 60 | 12 | 2 | 2 | 38 | 2.56 | .048 | 21 | 5 | .49 | 11 | .06 | 2 | .97 | .02 | .19 | 1 | 147 |
| CONCAMP D-4 R 6669 | 1 | 1913 | 62 | 86 | 20.1 | 2 | 10 | 471 | 3.88 | 26 | 5 | ND | 1 | 20 | 1 | 2 | 82 | 8 | .28 | .001 | 2 | 2 | .82 | 32 | .01 | 6 | .82 | .03 | .02 | 1 | 140 |
| CONCAMP D-4 R 6670 | 1 | 17 | 21 | 33 | .2 | 2 | 2 | 294 | 1.65 | 5 | 5 | ND | 4 | 29 | 1 | 2 | 2 | 5 | .23 | .048 | 14 | 2 | .29 | 192 | .12 | 9 | .70 | .03 | .14 | 1 | 4 |
| CONCAMP D-4 R 6671 | 1 | 33 | 16 | 53 | .4 | 2 | 5 | 371 | 3.20 | 7 | 5 | ND | 4 | 20 | 1 | 2 | 2 | 17 | .47 | .070 | 10 | 2 | .59 | 71 | .20 | 8 | 1.15 | .04 | .17 | 1 | 3 |
| CONCAMP D-4 R 6672 | 2 | 54 | 22 | 99 | .2 | 17 | 21 | 2028 | 6.93 | 9 | 5 | ND | 2 | 36 | 1 | 2 | 2 | 90 | 3.27 | .108 | 5 | 34 | 1.98 | 40 | .15 | 2 | 2.81 | .04 | .06 | 1 | 6 |
| CONCAMP D-5 R 6673 | 6 | 11 | 24 | 37 | .2 | 1 | 9 | 97 | 3.98 | 7 | 5 | ND | 2 | 42 | 1 | 2 | 2 | 19 | .45 | .063 | 3 | 1 | .21 | 21 | .17 | 5 | .89 | .08 | .20 | 2 | 4 |
| CONCAMP D-5 R 6674 | 3 | 26 | 21 | 91 | .2 | 2 | 9 | 578 | 3.58 | 6 | 5 | ND | 2 | 40 | 1 | 2 | 2 | 34 | 4.60 | .051 | 5 | 2 | .68 | 28 | .17 | 11 | 1.74 | .05 | .14 | 1 | 1 |
| CONCAMP D-5 R 6675 | 7 | 1761 | 22 | 126 | 3.3 | 3 | 9 | 23371 | 12.38 | 21 | 18 | ND | 2 | 47 | 1 | 2 | 2 | 20 | .15 | .011 | 2 | 1 | .26 | 265 | .01 | 2 | .38 | .02 | .05 | 2 | 52 |
| CONCAMP D-5 R 6676 | 1 | 4 | 6 | 4 | .4 | 1 | 1 | 334 | .54 | 2 | 6 | ND | 16 | 71 | 1 | 2 | 2 | 2 | 1.64 | .002 | 17 | 3 | .02 | 826 | .01 | 3 | .24 | .02 | .15 | 1 | 2 |
| CONCAMP D-5 R 6677 | 1 | 29 | 17 | 94 | .7 | 12 | 13 | 2705 | 4.39 | 2 | 5 | ND | 2 | 350 | 1 | 2 | 2 | 43 | 13.61 | .046 | 7 | 8 | 2.00 | 685 | .01 | 2 | .61 | .01 | .15 | 1 | 38 |
| CONCAMP D-5 R 6678 | 1 | 113 | 49 | 95 | .5 | 4 | 12 | 2158 | 4.55 | 4 | 5 | ND | 3 | 389 | 1 | 2 | 2 | 55 | 12.46 | .045 | 9 | 1 | 2.35 | 1224 | .01 | 2 | .96 | .01 | .12 | 1 | 5 |
| DEL NORTE D-2 R 6679 | 9 | 823 | 202 | 24224 | 26.7 | 2 | 5 | 4834 | 12.79 | 1544 | 5 | ND | 2 | 360 | 374 | 5 | 10 | 14 | 6.01 | .059 | 2 | 1 | 1.34 | 35 | .01 | 4 | .48 | .01 | .15 | 32 | 830 |
| DEL NORTE D-2 R 6680 | 6 | 13134 | 743 | 2495 | 22.4 | 1 | 14 | 6535 | 10.31 | 42 | 5 | ND | 3 | 19 | 14 | 2 | 20 | 22 | 1.08 | .089 | 2 | 1 | .84 | 12 | .01 | 3 | 1.32 | .04 | .20 | 2 | 1105 |
| DEL NORTE D-2 R 6681 | 3 | 314 | 31 | 269 | .5 | 3 | 12 | 779 | 2.72 | 8 | 5 | ND | 2 | 56 | 3 | 2 | 2 | 4 | 3.28 | .070 | 2 | 2 | .16 | 43 | .01 | 13 | .30 | .02 | .19 | 1 | 215 |
| DEL NORTE D-2 R 6682 | 404 | 88 | 27 | 30 | .5 | 2 | 19 | 69 | 3.39 | 2 | 5 | ND | 3 | 6 | 1 | 5 | 2 | 3 | .04 | .016 | 8 | 1 | .02 | 27 | .01 | 2 | .23 | .01 | .15 | 2 | 19 |
| DEL NORTE D-2 R 6683 | 18 | 268 | 80 | 429 | 2.9 | 1 | 5 | 77 | 2.03 | 2 | 5 | 2 | 1 | 14 | 3 | 2 | 4 | 3 | .80 | .008 | 2 | 1 | .02 | 40 | .01 | 2 | .25 | .02 | .18 | 1 | 1210 |
| DEL NORTE D-2 R 6684 | 26 | 474 | 79 | 873 | 2.6 | 1 | 9 | 99 | 2.65 | 4 | 5 | ND | 1 | 29 | 5 | 2 | 4 | 2 | 1.68 | .026 | 2 | 1 | .02 | 29 | .01 | 2 | .21 | .02 | .14 | 1 | 380 |
| DEL NORTE D-2 R 6685 | 7 | 584 | 18 | 389 | .7 | 3 | 7 | 624 | 4.84 | 4 | 5 | ND | 2 | 28 | 3 | 2 | 2 | 22 | .89 | .123 | 5 | 7 | .27 | 116 | .01 | 2 | .38 | .03 | .26 | 1 | 62 |
| DEL NORTE D-2 R 6686 | 19 | 612 | 86 | 641 | 4.5 | 6 | 8 | 185 | 6.08 | 8 | 5 | ND | 3 | 46 | 3 | 4 | 4 | 26 | .12 | .104 | 5 | 26 | .65 | 19 | .01 | 2 | 1.00 | .02 | .25 | 2 | 595 |
| DEL NORTE D-2 R 6687 | 5 | 80 | 9 | 152 | .5 | 5 | 3 | 188 | 4.00 | 2 | 5 | ND | 4 | 118 | 1 | 4 | 2 | 33 | .10 | .151 | 11 | 23 | .83 | 558 | .01 | 3 | 1.16 | .03 | .23 | 2 | 55 |
| STD C/AU-R | 18 | 58 | 40 | 132 | 7.1 | 67 | 26 | 1027 | 3.88 | 38 | 19 | 7 | 38 | 49 | 18 | 17 | 20 | 55 | .47 | .085 | 36 | 59 | .86 | 175 | .08 | 36 | 1.79 | .08 | .12 | 12 | 515 |

OFF PROPERTY

SAMPLE #'S ON FIGS. 3 to 5

ASSAY REQUIRED FOR Cu Pb > 10,000 ppm
Zn > 20,000 ppm

| SAMPLE# | MO PPM | CU PPM | PB PPM | ZN PPM | AG PPM | NI PPM | CO PPM | MN PPM | FE % | AS PPM | U PPM | AU PPM | TH PPM | SR PPM | CD PPM | SB PPM | BI PPM | V PPM | CA % | P % | LA PPM | CR PPM | MG % | BA PPM | TI % | B PPM | AL % | NA % | K % | W PPM | AU* PPB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEL NORTE D-2 R 6688 | 4 | 88 | 1209 | 897 | 3.3 | 3 | 10 | 1019 | 5.02 | 82 | 5 | ND | 1 | 75 | 4 | 2 | 11 | 6 | .53 | .045 | 3 | 1 | .17 | 9 | .01 | 4 | .31 | .02 | .20 | 3 | 185 |
| DEL NORTE D-2 P 6689 | 4 | 60 | 45 | 3114 | 10.1 | 13 | 8 | 1883 | 4.92 | 178 | 5 | ND | 2 | 322 | 19 | 11 | 2 | 11 | 5.15 | .068 | 5 | 3 | .59 | 36 | .01 | 5 | .48 | .02 | .14 | 2 | 109 |
| DEL NORTE D-2 R 6690 | 1 | 42 | 57 | 147 | .8 | 10 | 7 | 745 | 3.55 | 43 | 5 | ND | 1 | 309 | 1 | 4 | 2 | 26 | 5.41 | .076 | 4 | 3 | .65 | 36 | .01 | 3 | .88 | .01 | .17 | 1 | 11 |
| LAST DAY D-3 #1 | 9 | 218 | 484 | 612 | 1.0 | 1 | 7 | 892 | 4.68 | 12 | 5 | ND | 6 | 18 | 4 | 2 | 8 | 9 | .11 | .132 | 13 | 1 | .08 | 211 | .01 | 3 | .53 | .01 | .20 | 1 | 113 |
| LAST DAY D-3 #2 | 3 | 105 | 23 | 160 | .6 | 4 | 10 | 1901 | 4.57 | 9 | 7 | ND | 1 | 968 | 1 | 4 | 2 | 8 | 4.02 | .084 | 2 | 1 | 1.20 | 31 | .01 | 4 | .28 | .02 | .20 | 1 | 50 |
| LAST DAY D-3 #3 | 12 | 66 | 268 | 382 | .3 | 2 | 6 | 630 | 3.97 | 5 | 5 | ND | 5 | 11 | 1 | 2 | 6 | 7 | .04 | .116 | 18 | 1 | .14 | 104 | .01 | 8 | .54 | .02 | .18 | 1 | 78 |
| LAST DAY D-3 6128 | 8 | 280 | 28 | 164 | .8 | 2 | 7 | 186 | 4.06 | 3 | 5 | ND | 4 | 8 | 1 | 2 | 6 | 5 | .09 | .091 | 5 | 3 | .03 | 46 | .01 | 5 | .36 | .02 | .18 | 1 | 89 |
| LAST DAY D-3 6129 | 8 | 3541 | 26 | 264 | 2.5 | 1 | 8 | 422 | 3.29 | 3 | 5 | ND | 3 | 13 | 2 | 2 | 3 | 6 | .32 | .115 | 6 | 1 | .17 | 52 | .01 | 2 | .49 | .03 | .19 | 2 | 196 |
| LAST DAY D-3 R 6691 | 1 | 122 | 2 | 72 | .4 | 9 | 11 | 1495 | 5.72 | 2 | 6 | ND | 2 | 795 | 1 | 2 | 2 | 34 | 9.69 | .108 | 6 | 1 | 1.41 | 38 | .01 | 6 | 1.42 | .01 | .06 | 1 | 1 |
| LAST DAY D-3 R 6693 | 8 | 287 | 148 | 554 | 9.3 | 1 | 5 | 111 | 15.26 | 69 | 5 | 17 | 4 | 17 | 1 | 3 | 90 | 10 | .04 | .226 | 3 | 1 | .04 | 165 | .01 | 10 | .26 | .01 | .17 | 7 | 19200 |
| LAST DAY D-3 R 6694 | 13 | 187 | 165 | 390 | 2.4 | 1 | 2 | 78 | 3.65 | 6 | 5 | ND | 2 | 15 | 1 | 2 | 11 | 5 | .10 | .107 | 8 | 1 | .04 | 137 | .01 | 2 | .36 | .02 | .17 | 2 | 440 |
| LAST DAY D-3 R 6695 | 7 | 177 | 315 | 547 | 2.8 | 1 | 1 | 41 | 3.30 | 8 | 5 | ND | 2 | 19 | 1 | 2 | 8 | 4 | .01 | .084 | 8 | 3 | .03 | 257 | .01 | 2 | .26 | .01 | .16 | 1 | 310 |
| LAST DAY D-3 R 6696 | 41 | 222 | 163 | 204 | .3 | 1 | 5 | 157 | 7.73 | 9 | 5 | ND | 3 | 46 | 1 | 4 | 8 | 10 | .07 | .232 | 7 | 1 | .10 | 49 | .01 | 3 | .47 | .02 | .18 | 1 | 95 |
| LAST DAY D-3 R 6697 | 18 | 178 | 23 | 1451 | .5 | 2 | 5 | 83 | 2.41 | 6 | 5 | ND | 4 | 12 | 12 | 2 | 6 | 3 | .11 | .092 | 12 | 1 | .03 | 136 | .01 | 6 | .45 | .02 | .17 | 4 | 152 |
| STD C/AU-R | 18 | 57 | 35 | 132 | 7.2 | 68 | 27 | 1028 | 3.86 | 37 | 18 | 7 | 39 | 50 | 18 | 19 | 24 | 56 | .46 | .084 | 37 | 63 | .85 | 178 | .08 | 31 | 1.80 | .08 | .12 | 13 | 485 |

SILT SAMPLES / DC

TEUTON RES. FILE # 87-4163



| SAMPLE# | | MO PPM | CU PPM | PB PPM | ZN PPM | AG PPM | NI PPM | CO PPM | MN PPM | FE % | AS PPM | U PPM | AU PPM | TH PPM | SR PPM | CD PPM | SB PPM | BI PPM | V PPM | CA % | P % | LA PPM | CR PPM | MG % | BA PPM | TI % | B PPM | AL % | NA % | K % | W PPM | AU* PPB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DIRT 1 | S-1 | 75 | 431 | 435 | 2241 | 1.3 | 5 | 57 | 7202 | 10.91 | 34 | 5 | ND | 7 | 39 | 7 | 8 | 2 | 26 | .08 | .344 | 16 | 1 | .30 | 965 | .02 | 2 | .95 | .02 | .15 | 5 | 220 |
| DIRT 2 | S-2 | 43 | 1247 | 319 | 751 | 2.6 | 2 | 71 | 3929 | 17.59 | 27 | 5 | 2 | 9 | 377 | 5 | 6 | 3 | 13 | .04 | .527 | 15 | 1 | .11 | 532 | .01 | 3 | 1.27 | .02 | .09 | 1 | 840 |
| DIRT 3 | S-3 | 52 | 3125 | 322 | 1398 | 1.7 | 10 | 95 | 7022 | 19.11 | 27 | 9 | ND | 13 | 617 | 5 | 10 | 2 | 22 | .04 | .419 | 15 | 5 | .26 | 537 | .01 | 2 | 1.84 | .02 | .09 | 5 | 1430 |
| 1 | S-4 | 103 | 5328 | 172 | 3003 | 1.5 | 18 | 64 | 3819 | 18.38 | 21 | 5 | ND | 5 | 249 | 12 | 17 | 2 | 97 | .13 | .309 | 32 | 8 | .04 | 505 | .01 | 2 | .49 | .01 | .08 | 5 | 630 |
| 4 | S-5 | 9 | 346 | 575 | 1832 | .8 | 5 | 20 | 3861 | 5.82 | 18 | 5 | ND | 5 | 52 | 11 | 3 | 3 | 20 | .23 | .154 | 15 | 9 | .50 | 507 | .01 | 2 | .98 | .02 | .14 | 3 | 85 |
| 5 | S-6 | 20 | 1620 | 167 | 648 | 1.0 | 5 | 49 | 2671 | 31.48 | 19 | 9 | ND | 7 | 43 | 1 | 6 | 2 | 29 | .01 | .175 | 5 | 11 | .45 | 167 | .02 | 2 | 1.30 | .02 | .09 | 1 | 470 |
| 6 | S-7 | 6 | 1072 | 101 | 993 | 1.0 | 12 | 103 | 3999 | 24.46 | 120 | 5 | ND | 4 | 7 | 3 | 7 | 2 | 22 | .01 | .368 | 5 | 12 | .71 | 312 | .01 | 3 | 1.70 | .02 | .05 | 2 | 137 |
| 7 | S-8 | 10 | 406 | 868 | 2021 | 1.4 | 6 | 26 | 5198 | 6.99 | 31 | 5 | ND | 4 | 64 | 12 | 3 | 2 | 35 | .21 | .171 | 16 | 2 | .51 | 600 | .02 | 5 | 1.41 | .03 | .12 | 3 | 242 |
| 8 | S-9 | 11 | 395 | 639 | 1842 | 1.0 | 5 | 22 | 4099 | 6.08 | 17 | 5 | ND | 5 | 53 | 11 | 2 | 2 | 21 | .19 | .157 | 15 | 8 | .48 | 477 | .01 | 3 | .94 | .03 | .15 | 3 | 2040 |
| STD C/AU-S | | 19 | 57 | 38 | 132 | 7.4 | 67 | 27 | 1028 | 3.82 | 36 | 14 | 7 | 39 | 50 | 18 | 16 | 20 | 57 | .46 | .086 | 38 | 41 | .84 | 181 | .08 | 31 | 1.77 | .08 | .14 | 11 | 51 |

5000'

4000'

3000'

5000'

4000'

3000'

MASSIVE FLOWS

DEL NORTE GLACIER

barren rhyodacite

50°

⊕6691

CROESUS CLAIMS

4 1

3 2

Legal corner post

□6679

Old adit

Shear in sericite schist

⊕6687

S1

S2

S3

S4

S5

S6

S7

S8

S9

⊕6686

□6685

PYRITIZED TUFF

ARGILLITES

N45/steep sulphide rich zone

⊕6683,6684

□6682

⊕6681

5m. intense shear sericite schist

□6680

⊕6688

□6689

△6690

DEL NORTE CREEK

GRAVEL & OVERBURDEN

MASSIVE, BLOCKY VOLCANIC FLOWS

⊕6129

⊕6128

⊕D3-3

⊕D3-2

⊕D3-1

⊕6693

PYRITIZED TUFF

⊕6694

⊕6695

⊕6696

⊕6697

ARGILLITES

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,660

N

LEGEND

SAMPLE LOCATIONS
- □ ROCK (FLOAT)
- ● " (IN PLACE)
- △ " (TALUS)
- ○ SILT

GLACIER

CONTOUR AT 200' INTERVAL

GEOLOGICAL CONTACT

TEUTON RESOURCES CORP.

CROESUS CLAIMS D.C.

# GEOCHEMISTRY SURVEY
# SAMPLE LOCATION MAP

N.T.S. 103P-13,14, 104A-3,4 SKEENA M.D., B.C.

0 100 200 300 METRES

| | |
|---|---|
| SCALE 1:5000 | DATE JULY 1988 |
| | FIGURE Nº. 3 |

CHONG

5000'

4000'

3000'

MASSIVE FLOWS

DEL NORTE GLACIER

barren rhyodacite

50°

1, .4

CROESUS CLAIMS

4 1

3 2

Legal corner post

830, 26.7

Old adit

Shear in sericite schist

55, .5

220, 1.3

595, 4.5

62, .7

840, 2.6

1430, 1.7

630, 1.5

85, .8

470, 1.0

137, 1.0

242, 1.4

2040, 1.0

185, 3.3

PYRITIZED TUFF

ARGILLITES

N45°/steep sulphide rich zone

1210, 2.9

380, 2.6

215, .5

5m. intense shear sericite schist

19, .5

1105, 22.4

DEL NORTE CREEK

GRAVEL & OVERBURDEN

109, 10.1

11, .8

MASSIVE, BLOCKY VOLCANIC FLOWS

196, 2.5

89, .8

78, .3

19200, 9.3

PYRITIZED TUFF

460, 2.4

510, 2.8

95, .3

152, .5

50, .6

113, 1.0

ARGILLITES

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,660

N

LEGEND

SAMPLE LOCATIONS
- □ ROCK (FLOAT)
- ● " (IN PLACE)
- △ " (TALUS)
- ○ SILT

GLACIER

CONTOUR AT 200' INTERVAL

GEOLOGICAL CONTACT

152, .5 Au ppb, Ag ppm

TEUTON RESOURCES CORP.

CROESUS CLAIMS

GEOCHEMISTRY SURVEY
Au & Ag

N.T.S. 103P-13,14, 104A-3,4 SKEENA M.D., B.C.

0 100 200 300 METRES

| SCALE 1:6000 | DATE : JULY 1988 |
|---|---|
| | FIGURE Nº. : 4 |

CHONG

5000'

4000'

3000'

MASSIVE FLOWS

DEL NORTE GLACIER

barren rhyodacite

50°

287, 148, 554

CROESUS CLAIMS

4 1

Legal corner post

3 2

823, 202, 24224

Old adit

Shear in sericite schist

80, 9, 152

431, 435, 2241

612, 86, 641

584, 18, 389

1247, 319, 751

ARGILLITES

PYRITIZED TUFF

3125, 322, 1398

5328, 172, 30030

366, 575, 18320

1620, 167, 648

88, 27, 30

N45°/steep sulphide rich zone
268, 80, 429
474, 79, 873
314, 31, 269
5m. intense shear sericite schist

13134, 743, 2496

1872, 101, 893

406, 868, 2021

395, 639, 1842

88, 1209, 887

60, 45, 3114

42, 57, 147

DEL NORTE CREEK

GRAVEL & OVERBURDEN

MASSIVE, BLOCKY VOLCANIC FLOWS

3541, 26, 264

280, 28, 164

66, 268, 382

287, 148, 554

PYRITIZED TUFF

105, 23, 160

187, 165, 390

177, 315, 587

28, 484, 612

ARGILLITES

222, 163, 204

178, 23, 1451

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,660

LEGEND

SAMPLE LOCATIONS

- □ ROCK (FLOAT)
- ● " (IN PLACE)
- △ " (TALUS)
- ○ SILT

GLACIER

CONTOUR AT 200' INTERVAL

GEOLOGICAL CONTACT

178, 23, 1451 Cu, Pb, Zn ppm

TEUTON RESOURCES CORP.

CROESUS CLAIMS

GEOCHEMISTRY SURVEY

Cu, Pb & Zn

N.T.S. 103P-13,14, 104A-3,4 SKEENA M.D., B.C.

0 100 200 300 METRES

| SCALE 1:5000 | DATE: JULY 1988 |
|---|---|
| | FIGURE No.: 5 |

CHONG