

SECRETARIES  
RECEIVED  
DEC 05 1989  
M.R. # ..... \$ .....  
VANCOUVER, B.C.

LOG NO:	1207	RD.
ACTION:		
FILE NO:		

**GEOCHEMICAL AND GEOLOGICAL REPORT  
ON THE  
CAYUSE CLAIM**

**FILMED**

**KAMLOOPS MINING DISTRICT  
N.T.S. 921/15  
35°55'N 120°56'W  
50°**

for

**BU-MAX GOLD CORP.  
#600 - 890 West Pender Street  
Vancouver, B.C. V6C 1K4  
(Operator)**

and

**CONPAK SEAFOODS INC.  
P.O. Box 13008  
2nd Floor - 31 Pippy Place  
St. John's, Newfoundland  
(Owner)**

by

**Gary A. Medford, Ph.D., FGAC  
Consulting Geologist  
3894 West 37th Avenue  
Vancouver, B.C. V6N 2W3**

September, 1989

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**19,595**

## **TABLE OF CONTENTS**

i

	<b>Page</b>
INTRODUCTION	1
LOCATION AND ACCESS	1
PHYSIOGRAPHY AND TOPOGRAPHY	1
WORK PROGRAM	1
CLAIM RECORDS	2
REGIONAL GEOLOGY	2
LOCAL EXPLORATION	2
GEOCHEMICAL SURVEY	4
GEOLOGICAL OBSERVATIONS	4
RECOMMENDATIONS	4
REFERENCES	5
CERTIFICATE	6

## **LIST OF FIGURES**

- Figure 1 - Location Map
- Figure 2 - Claim Map
- Figure 3 - Regional Geology

## **LIST OF MAPS**

- Map 1 - Property Geology, Grid 1
- Map 2 - Soil Geochemistry, Grid 1, Gold Values

## **APPENDICES**

- Appendix 1 - Cost Statement
- Appendix 2 - Geochemical Results Supplied by Acme Analytical Laboratories Ltd.

## **INTRODUCTION**

The Cayuse claim is found within the southern part of the Quesnel trough, a belt well known for its prolific copper, molybdenum, lead, zinc, silver and gold mineral occurrences and deposits. The claim covers ground that has attracted interest since the turn of the century because of the presence of mercury mineralization associated with carbonate veins. Since the late seventies, considerable interest has been focused on this area because of the possibility of the finding of epithermal precious metal mineralization. The anomalous soil mercury, arsenic and antimony geochemistry found on and around this claim presents interesting exploration targets that could lead to epithermal deposits such as have been extensively described and mined in Nevada.

## **LOCATION AND ACCESS (Fig. 1)**

The legal corner post of the Cayuse claim is located at 50° 55.1'N and 120° 55.3'W. It is found north of the Criss Creek road approximately nine kilometres east of the junction with the Deadman Creek road. Both of these roads are in good condition and the latter joins with the Trans Canada Highway six kilometres west of Savona, B.C. where food and lodging is available.

## **PHYSIOGRAPHY AND TOPOGRAPHY**

The highest elevation of the property is about 3,200 feet (975 m) and the lowest is in the Criss Creek valley at about 2,100 feet (640 m). The topography is gently sloping to steep in the creek valley and covered by sparse forest with little brush. The property is located in the dry belt of the province but water is available from Criss Creek year round.

## **WORK PROGRAM**

Fieldwork was carried out by G.A. Medford on August 26 and 27, 1989 and consisted of resampling of several isolated gold solid responses obtained in 1988 grid work (Freeze 1988). Geological observations made during traverses conducted within the grid lines were also recorded.

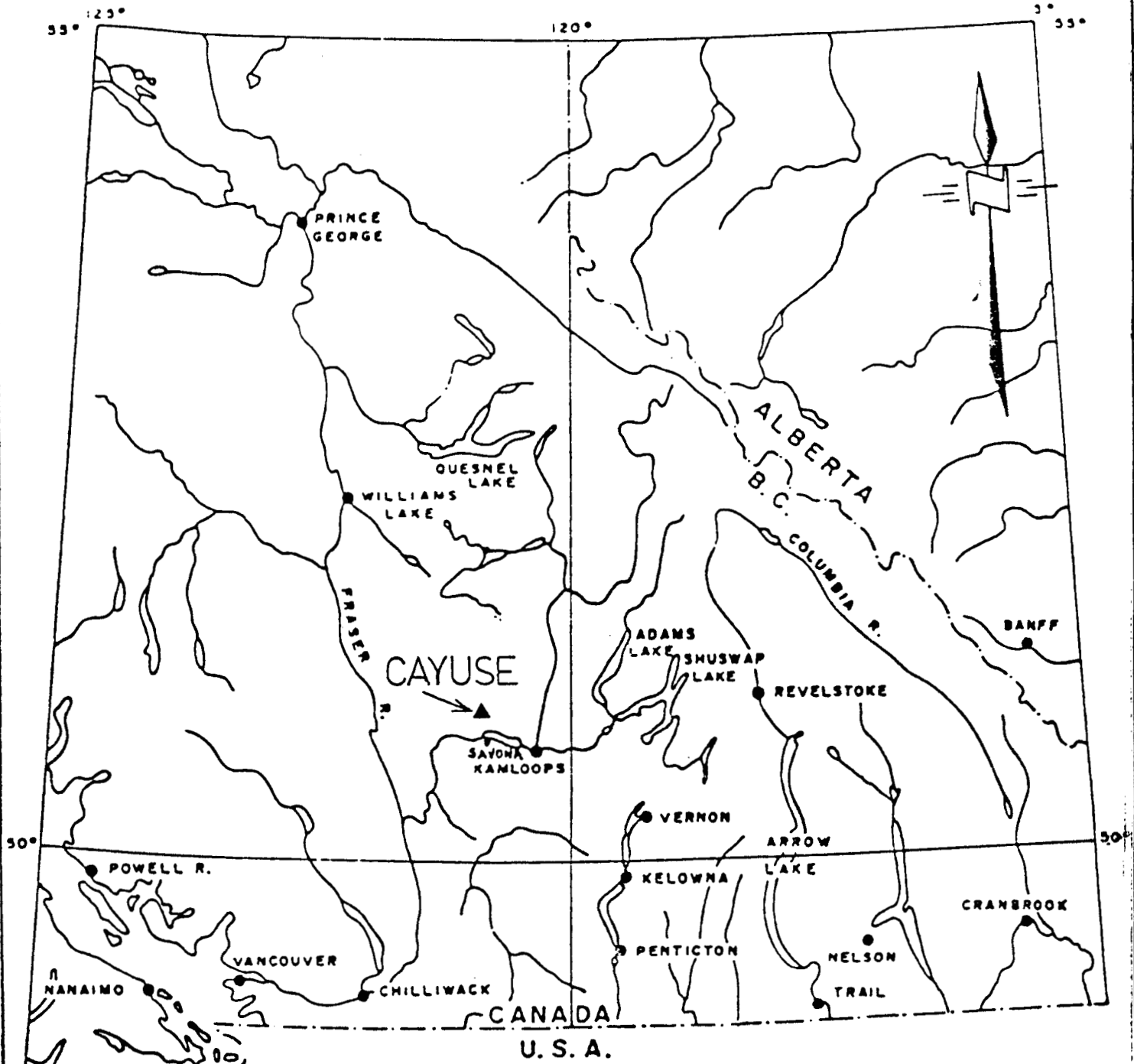


FIG. 1

LOCATION MAP CAYUSE CLAIM Kamloops M.D.
G.A. MEDFORD, Ph.D., FGAC

Soil samples were taken from the B-horizon (10-20 cm) and stored in kraft gusset bags. The samples were sent to Acme Analytical Laboratories Ltd., Vancouver, for gold analysis using acid leach, atomic absorption. Sampling locations were flagged and numbered.

Access to the property was gained from Savona where lodging was obtained.

### CLAIM RECORDS

The Cayuse claim, consisting of 12 unit (Figure 2) and located within the Kamloops Mining Division, is found on Department of Mines claim map 92I 15N. The claim is wholly owned by ConPak Seafoods Inc. Government records show the following:

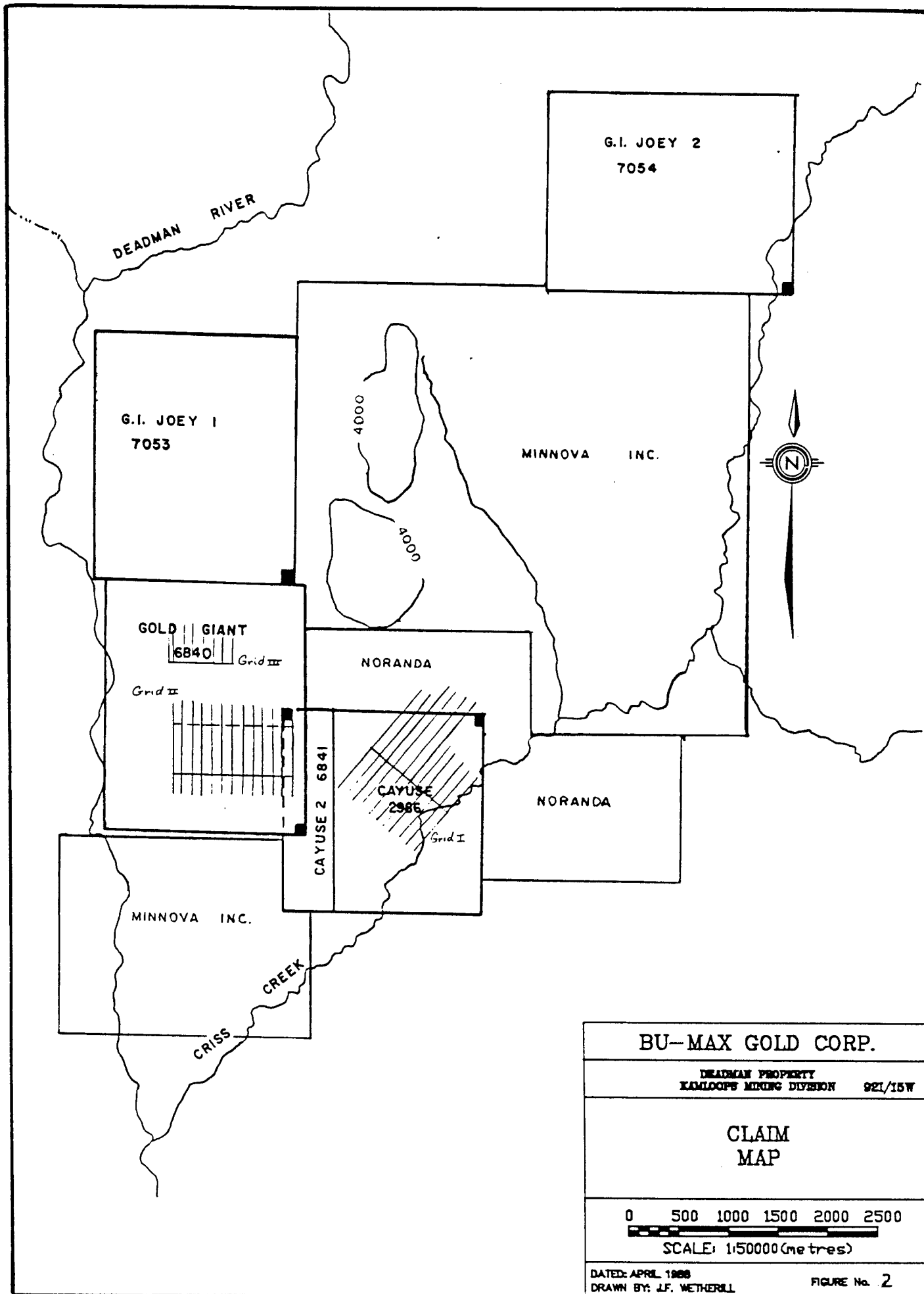
<u>Claim</u>	<u>Record No.</u>	<u>Units</u>	<u>Record Date</u>	<u>Expiry Date</u>
Cayuse	2986	12	Sept. 24/80	Sept. 24/89

### REGIONAL GEOLOGY

The property lies within the area referred to as the Quesnel Trough (Campbell and Tipper, 1970), a narrow northwest trending belt consisting of Upper Triassic and Lower Jurassic volcanoclastic and sedimentary rocks. Broad areas are covered by Eocene volcanics and sediments and by Miocene-Pliocene plateau lavas. The trough hosts many copper-molybdenum deposits mainly associated with granitic intrusions as well as numerous significant copper, gold and copper-gold deposits. The latter are associated with alkaline intrusive or volcanic activity. Locations of several of these deposits are indicated in Figure 3.

### LOCAL AND CLAIM GEOLOGY

The claim is underlain by upper Triassic Nicola group volcanics, grey-green to purple in colour, and often stained rusty brown. To the northwest Kamloops group volcanic and sediments overlie the Nicola but these do not encroach upon the boundary of the Cayuse claim. Regional mapping (GSC O.F. 980) projects a fault northwest-southeast through the property



DEADMAN RIVER

G.I. JOEY 2  
7054

G.I. JOEY 1  
7053

MINNOVA INC.



GOLD GIANT  
6840 Grid III  
Grid II

NORANDA

CAYUSE 2 6841

CAYUSE  
2985  
Grid I

NORANDA

MINNOVA INC.

CRISS CREEK

BU-MAX GOLD CORP.

DEADMAN PROPERTY  
KAMLOOPS MINING DIVISION 921/15W

CLAIM  
MAP

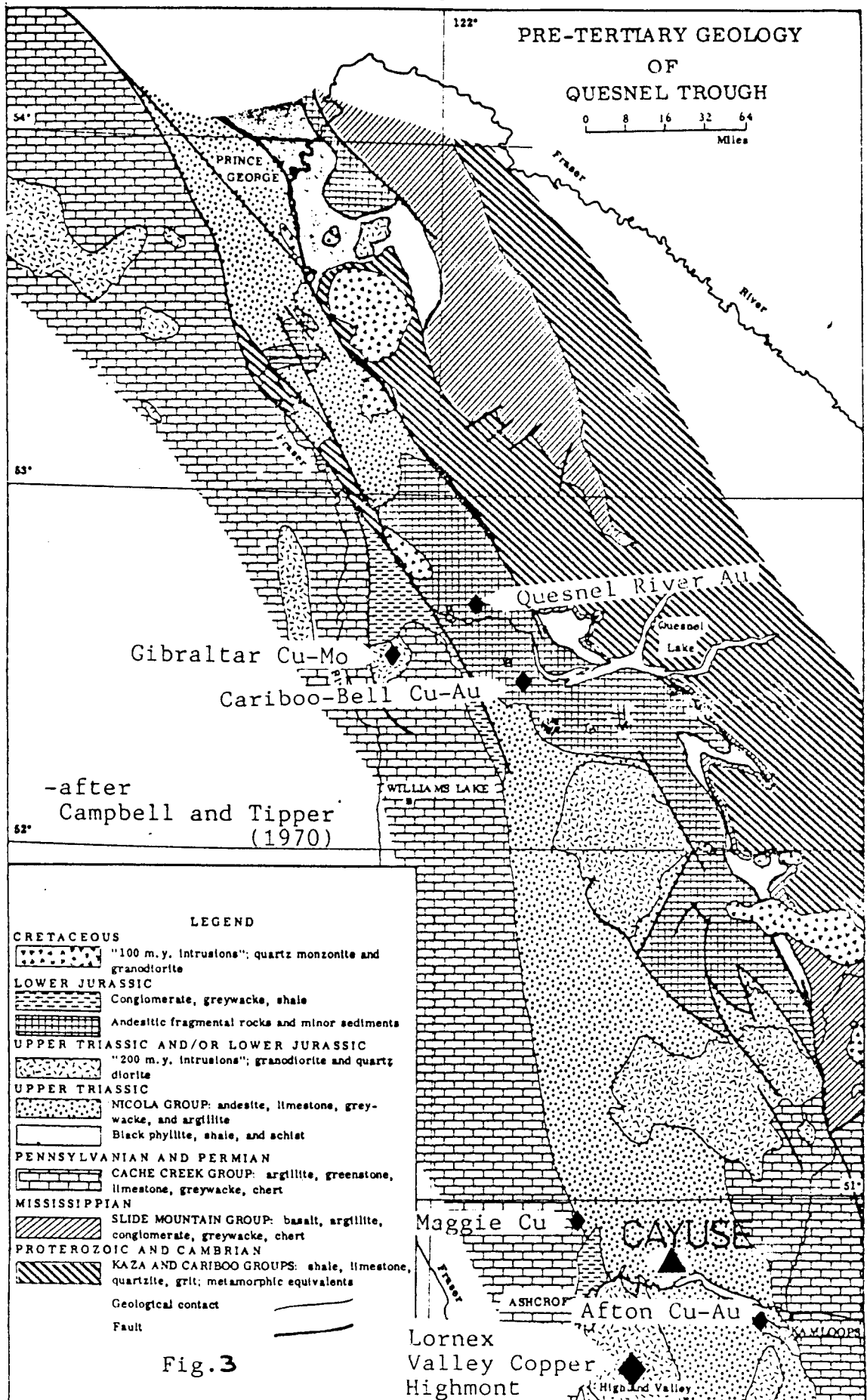
0 500 1000 1500 2000 2500



SCALE: 1:50000 (metres)

DATED: APRIL 1988  
DRAWN BY: J.F. WETHERILL

FIGURE No. 2



— Schematic map of the pre-Tertiary geology of the Quesnel Trough and surroundings. The Trough is defined by the occurrence of Upper Triassic and Lower Jurassic volcanic and sedimentary rocks and is bounded by Paleozoic or older rocks on either side.

with sediments of the Ashcroft formation (argillite, siltstone, sandstone, conglomerate) in fault contact to the east.

In the area extending one kilometre or so southwest along the road from the legal corner post a number of pink to tan colour Tertiary (?) dikes and sills intrude the Nicola. These intrusives exhibit intense argillic alteration and carbonate replacement and are, for the most part, difficult to identify. They are related to the larger stocks shown as unit 3 in Map 1.

### LOCAL EXPLORATION

Historical interest in mercury and related mineralization is referenced in Dickinson (1973) to which the reader is directed. Work on the adjacent D.M. claims (now lapsed) by Guichon Explorco Ltd. (Gamble, 1981) has included detailed grid work immediately to the northwest of the Cayuse claim. Anomalous Au zones and coincident Hg and As anomalies are found proximal to Tertiary intrusions but silver is consistently at or below detection limits (0.1 ppm). Some anomalous Mo values were also detected.

Work on the surrounding Jan claims (now lapsed) by Placer Development Ltd. has also resulted in some anomalous Au, Sb, As, Cu and Zn zones, but Mo has been found to be present in only low concentrations and silver not detectable. An Hg-As anomaly directly north of the Cayuse claim may be the extension of a similar anomaly found on the Cayuse claim. Dickinson (1973) postulated this elongate Hg-As anomaly to define a fault zone running north-south through the Cayuse claim.

In 1972, Andex Mines carried out mapping and widespread geochemical work on the Split I-40 claims which are now contained, in part, by the Cayuse claim (Amendologine, 1972). Substantial Ag anomalies (many greater than 5 ppm) were outlined based on auger sampling to a depth of 18 inches (30 cm), as well as a few weak Cu and Zn anomalies. Subsequent B horizon sampling reported by Dickinson (1983) and Medford (1986) did not reproduce the earlier results but frequently indicated the presence of Ag above the detection limit (i.e. 0.2 to 0.6 ppm). In addition, Hg and As proved highly anomalous but Au was below 10 ppb in all soils.

The D.M. claims were restaked as the Goldgiant I claim and additional detailed grid work was carried out in 1988 (Freeze, J.). Similar elevated Hg, As and some gold results were obtained.



## **GEOCHEMICAL SURVEY**

Two or three samples were collected down slope of selected soil responses as shown on Map 2 obtained in the 1988 program (Freeze, 1988). No resampling was done on those highs obtained along Criss Creek as results here reflect the drainage geochemistry. No encouraging results were obtained and it is probable that the gold geochemical response of this property more reflects glacial dispersion than useful gold anomalies. Most of the highs obtained in the previous survey were located on what appear to be a rather thick glacial deposits and are, hence, unreliable.

Assay certificates are presented in Appendix 2.

## **GEOLOGICAL OBSERVATIONS**

The traverses carried out, indicate that the carbonate-altered felsic intrusions somewhat more extensive than indicated in previous mapping (Freeze, 1988), especially south and downhill from the road. It is probable that the pyritic quartz carbonate veins found north of the road (Freeze, 1988) may be emanating from the unroot portion of the carbonate-altered intrusions and thus a trapping mechanism for gold mineralization may exist at depth in the vicinity of the veins.

## **RECOMMENDATIONS**

Drill testing in the vicinity of the quartz-carbonate veins is recommended as the next phase of exploration.

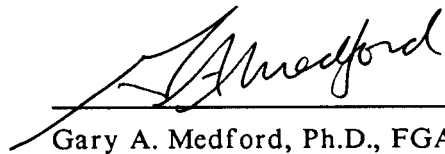
## REFERENCES

- Amendolagine, E. 1972. Workprogress Report on Andex Mines Ltd. Property, Split 1-40, A.R. 4305
- Campbell, R.B. and Tipper, H.W., 1970. Geology and Mineral Deposits of the Quesnel Trough, British Columbia. CIM Trans. Vol. LXXIII pp 174-179.
- Dickinson, R.A., 1983. A Geochemical Report on the Cayuse Claim, Kamloops, M.D.
- Freeze, J.C., 1988. Geological Report on the Deadman Property, Kamloops, M.D., Southern Central, B.C. (filed for assessment).
- Gamble, D., 1981. Geological and Geochemical Surveys of the D.M. Claims, Hoodo Grid, Kamloops M.D. A.R. 9729.
- Medford, G.A., 1984. Geochemical and Geophysical Report on the Cayuse Claim, Kamloops M.D. N.T.S. 921/15.  
1986. Geochemcial Report on the Cayuse Claim, Kamloops M.D.

**CERTIFICATE**

I, Gary A. Medford, with business address at 3894 West 37th Avenue, Vancouver, British Columbia, do hereby certify that:

1. I am a consulting geologist and have been engaged in my profession for over 15 years.
2. I am a graduate of McGill University with B.Sc. Honours (1968) and M.Sc. (1970) degrees in geology, and have graduated from the University of British Columbia with a Ph.D. (1976) in geology.
3. I am a Fellow of the Geological Association of Canada.
4. I certify the work indicated in this report to have been carried out on August 26 and 27, 1989.

  
\_\_\_\_\_  
Gary A. Medford, Ph.D., FGAC

## APPENDIX I

### COST STATEMENT

Geologist, G.A. Medford, Ph.D.	2 Days	\$ 800.00
Mobilization/demob. Van. to Savona, B.C.		725.00
Truck & Fuel	4 days @ \$100	400.00
Lodging/Meals	2 days at \$50	100.00
Field expendable materials		5.00
Geochemistry		75.00
Report, secretarial, reproduction		<u>295.00</u>
<b>TOTAL</b>		<b>\$ <u>2,400.00</u></b>

APPENDIX 2

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: SEP 12 1989

DATE REPORT MAILED: *Sept. 15/1989*

**GEOCHEMICAL ANALYSIS CERTIFICATE**

- SAMPLE TYPE: Soil -80 Mesh  
AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.  
P - pulverized, -40 mesh.

SIGNED BY. *[Signature]* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Medford Geological Survey FILE # 89-3617 Page 1

SAMPLE#

AU\*  
ppb

SAMPLE# AU\*  
ppb

89826-1	4
89826-2	4
89826-3	3
89826-4	4
89826-5	2
89826-6	4

SAMPLE#	AU* ppb
89826-7	8
89826-8	7
89826-9	2
89826-10	2
89826-11	1
89826-12	1
89826-13	1
89826-14	1

