COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS: 104K/12E

ASSESSMENT REPORT

GEOCHEMICAL, GEOPHYSICAL & GEOLOGICAL REPORT FOR GOAT I CLAIM ATLIN MINING DIVISION TAKU RIVER AREA, B.C.

Latitude: 58°40'N Longitude: 133°30'W

Work Performed

August 20, 1983 - September 3, 1983

Owner and Operator: Cominco Ltd.

8 December 1983

J. Paul Sorbara

GEOLOGICAL BRANCH ASSESSMENT REPORT

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FOR GOAT I CLAIM

ATLIN MINING DIVISION

TAKU RIVER AREA, B.C.

INTRODUCTION

The Goat I mineral claim is located on the north side of the Taku River Valley, east of the peak of Mt. Manville, and is centered at 58°40'N and 133°30'W. Access to the property is by helicopter, usually from Atlin, B.C. The property was staked in July 1982 and is 100% owned by Cominco Ltd.

During the period of August 20 to September 3, 1983 a program of geology, geophysics, soil geochemistry and line cutting was conducted on the Goat claim. This program was supervised by the author who also performed the geological mapping. The linecutting was contracted to McCrory Holdings (Yukon) Ltd. and the geophysical work was done by Ingo Jackisch, assisted by Ted Wong (both Cominco geophysicists). The soil sampling was done by Chris Parisien, a local resident, under the supervision of the author.

GEOPHYSICAL SURVEY

Geophysical work conducted on the Goat claim in 1983 consisted of 2.8 km of Max.-Min. II (HLEM) with a 50 m coil separation and total field MAG done over the entire grid (2.8 km). The HLEM survey defined 4 conductive zones trending parallel to the stratigraphy (Plate 3). The three easterly conductors are underlain by graphitic argillite and, hence, are not of interest. The westernmost conductor is mostly underlain by andesitic tuff and breccias, but the northern tip of this conductor is underlain by minor amounts of rhyolitic tuff (no obvious geological explanation).

The MAG survey defined three small areas of increased magnetic field strengths (Plate 4). One of these 3 zones (the southernmost one) is partly coincident with one of the EM conductors, and the other 2 MAG highs are not coincident with conductors. Regardless of their positions, the MAG highs are not extreme and are not believed to be significant.

GEOLOGY

The Goat property is underlain by interbedded rhyolitic tuffs, tuffs and breccias of andesitic composition and graphitic argillite, with minor volcanic sandstone and sub-volcanic intrusive andesite. These units strike roughly 230° with vertical-to-steep dips (Plate 2). Minor amounts of disseminated chalcopyrite and sphalerite were found in rhyolitic rocks along the western edge of the survey area. Rhyolitic rocks also contained some sericite and carbonate and were in places slightly schistose. Andesitic rocks to the east are calcareous and in places contain coral fragments. The argillaceous rocks contain graphitic material and minor pyrite.

SOIL GEOCHEMISTRY

The soil sampling was done on the grid at 25 metre intervals with 120 samples collected, of which 55 were analyzed. These were analyzed for Cu, Pb and Zn in the Cominco Exploration laboratory in Vancouver. The analytical process involved sieving to -80 mesh followed by decomposition by 20% HNO, and atomic absorption spectrophotometry.

The highest values of Cu, Pb and Zn (81, 83 and 329 ppm respectively) were located at the northwest corner of the grid (see Plate 5). These results are restricted to a very small area and appear to result from minor disseminated sphalerite and chalcopyrite in rhyolitic tuffs. No other anomalous values were found within the grid area.

INTERPRETATION

The Goat property is underlain by a northwest striking, steeply dipping sequence of interbedded rhyolitic to andesitic tuff, graphitic argillite and minor volcanic sandstone. The EM conductors found on the property are underlain by graphitic argillite or andesitic tuff and hence, are of little apparent value. Minor mineralization in the form of disseminated chalcopyrite and sphalerite was found in an area of the property. The grade and size of this mineralization, however, makes it of little economic significance.

Report By:

Sorbara

Geologist

Endorsed By:

Assistant Manager

Exploration, Western District

Approved for Release By:

G. Harden

Exploration, Western District

Distribution: Mining Recorder (2) W.D. Files (1)

APPENDIX I

STATEMENT OF EXPENDITURES

SALARIES

J. Paul Sorbara	15 days @ 155.76/day	\$ 2,336.40
Chris Parisien	12 days @ 130.41/day	\$ 1,565.00
Linecutting		\$ 5,442.00
Geophysics		\$ 7,821.00
Geochemistry	55 samples @ \$3.95	\$ 217.25
Mobilization & Demob	\$ 8,632.00	
Food & Lodging	*	\$ 4,023.00
	TOTAL EXPENDITURES	\$30,036.65

Signed:

J.P. Sorbara

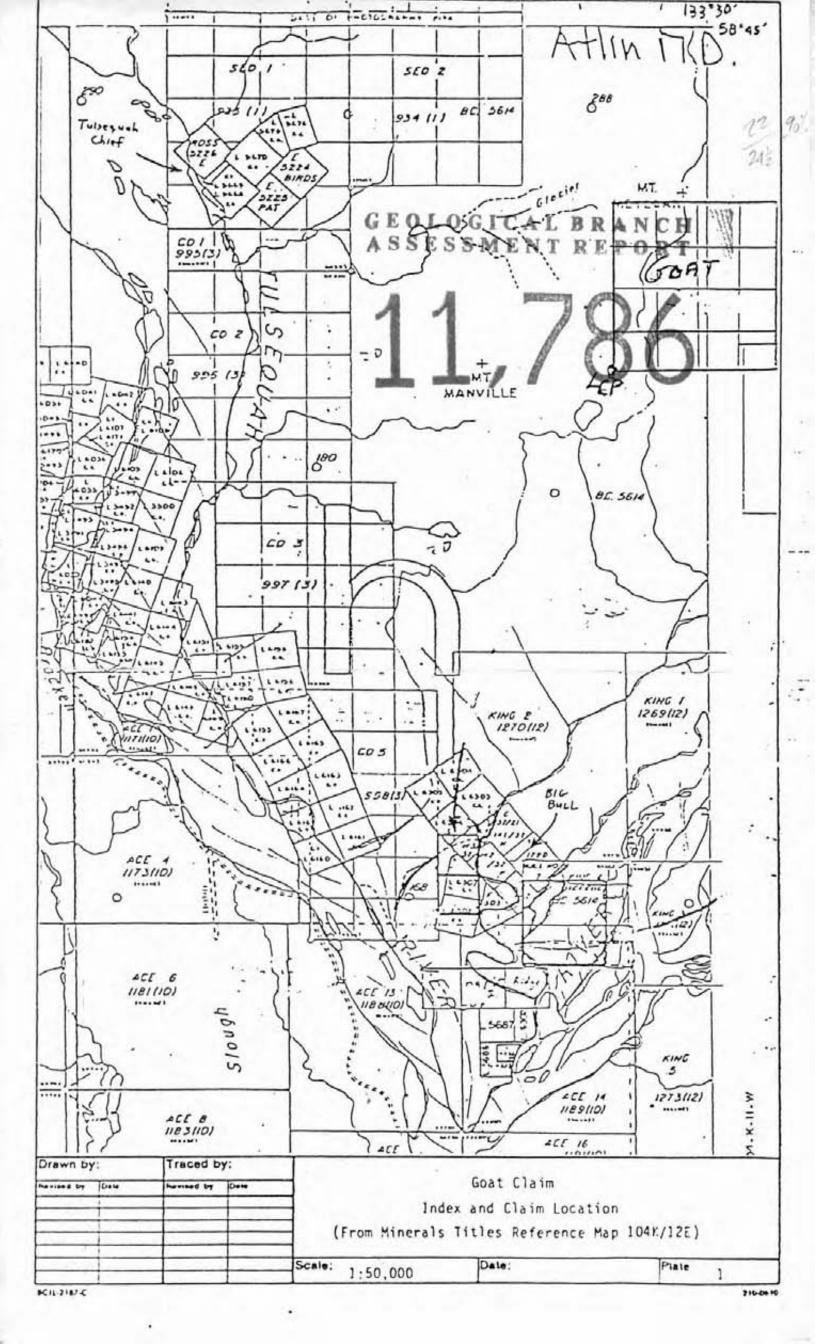
APPENDIX II

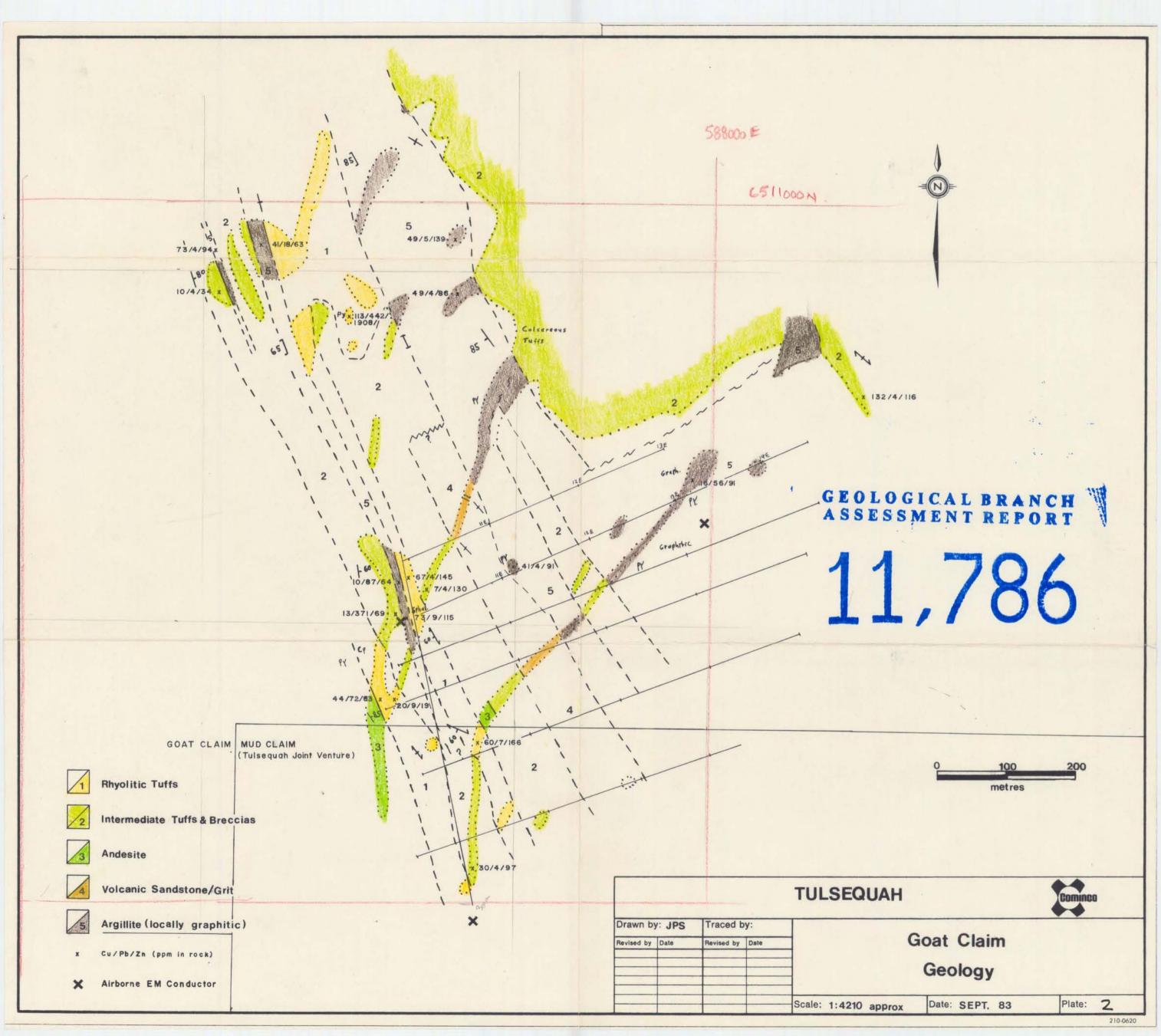
STATEMENT OF QUALIFICATIONS

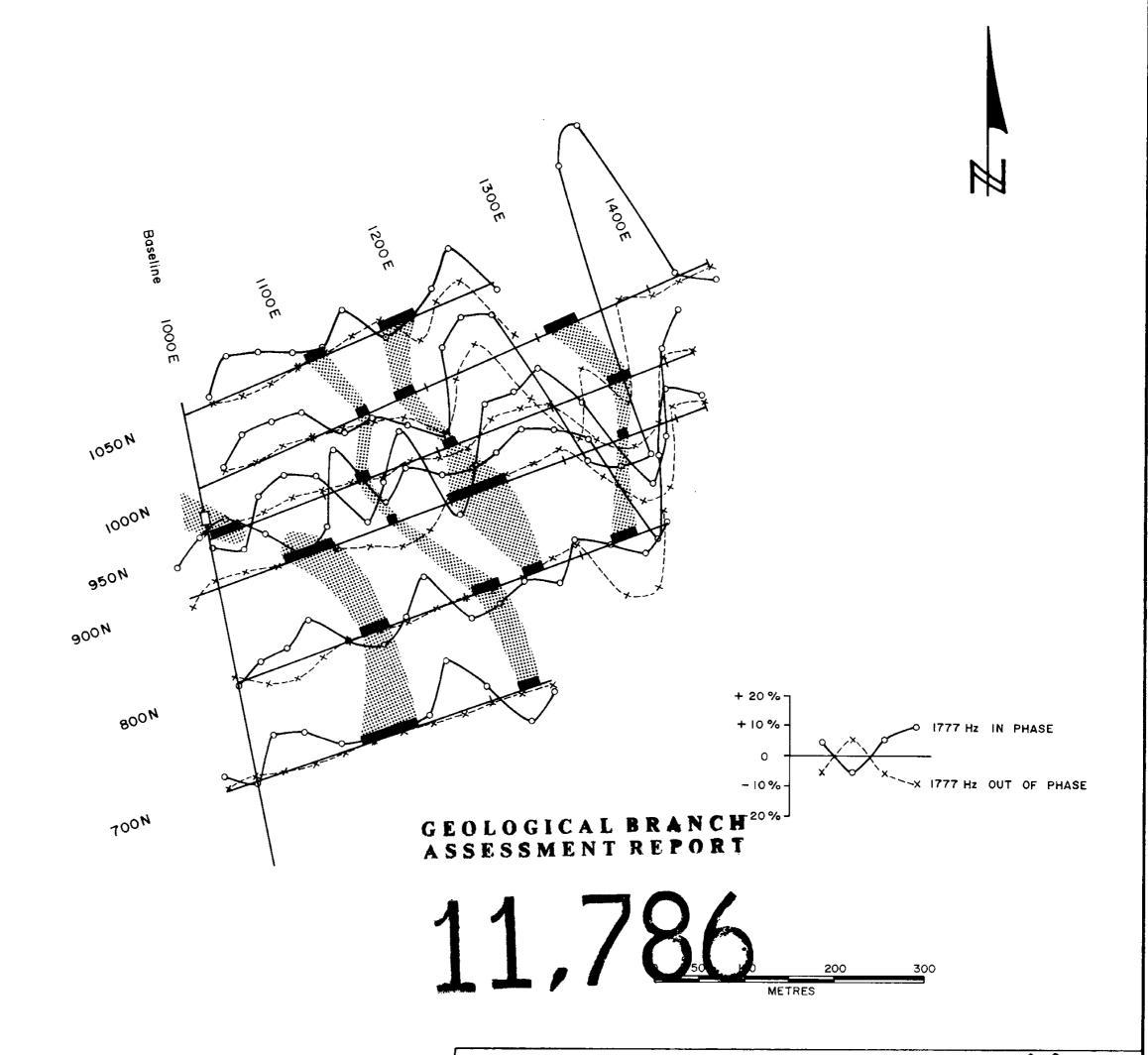
- I, J. PAUL SORBARA, OF THE CITY OF NORTH VANCOUVER, IN THE PROVINCE OF BRITISH COLUMBIA, HEREBY CERTIFY:-
- THAT I am a geologist residing at 1209 2012 Fullerton Avenue, North Vancouver, British Columbia, with a business address at 409 Granville Street, Vancouver, British Columbia;
- THAT I graduated with a B.Sc. in geology from the University of Toronto, Toronto, Ontario in 1976, and with a M.Sc. in geology from the University of Toronto in 1979.
- 3. THAT I have practised geology with Cominco Ltd. from 1979 to 1983.

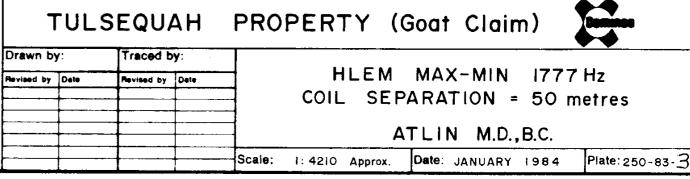
Signed:

J. Paul Sorbara, M.Sc. Geologist, Cominco Ltd.









1050N 40001 950N 9001 800N GEOLOGICAL BRANCH ASSESSMENT REPORT 700N 11,786

BASE LEVEL: 57,000 Gammas

CONTOUR INTERVAL : 100 Gammas

