ASSESSMENT REPORT OF THE 1989 TOPOGRAPHIC MAPPING AND AIRBORNE GEOPHYSICAL PROGRAM ON THE

PHIL 13 CLAIM GROUP

(PHIL 13 & 14 and CHUCHI 1 & 2 Claims)

Omineca Mining Division)

NTS 93N/7,8,1,2

Latitude 50 16'N Longitude 124 33'W

BPVR 89-3 R.H. Wong September, 1989.



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ASSESSMENT REPORT OF THE 1989

TOPOGRAPHIC MAPPING AND AIRBORNE GEOPHYSICAL PROGRAM

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PHIL 13 CLAIM GROUP

(PHIL 13 & 14 and CHUCHI 1 & 2 Claims)

Omineca Mining Division NTS 93N/7,8,1,2

Latitude 55°16'N Longitude 124°33'C AL BRANCH GEOLOGICAL BRANCH ASSESSMENT REPORT



R.H. Wong September, 1989

BPVR 89-3

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#### SUMMARY

A program of topographic mapping and airborne geophysics was carried out on the PHIL 13 claim group this year.

The Orthoshop of Calgary, Alberta was contracted to produce an orthophoto map of the entire claim area at a scale of 1:10,000 at a cost of \$3,115.00.

Aerodat Limited of Mississauga, Ontario completed approximately 170 line-kilometres of low-level (60 m) airborne magnetometer and VLF-EM survey over the entire claim area at a cost of \$7,500.00.

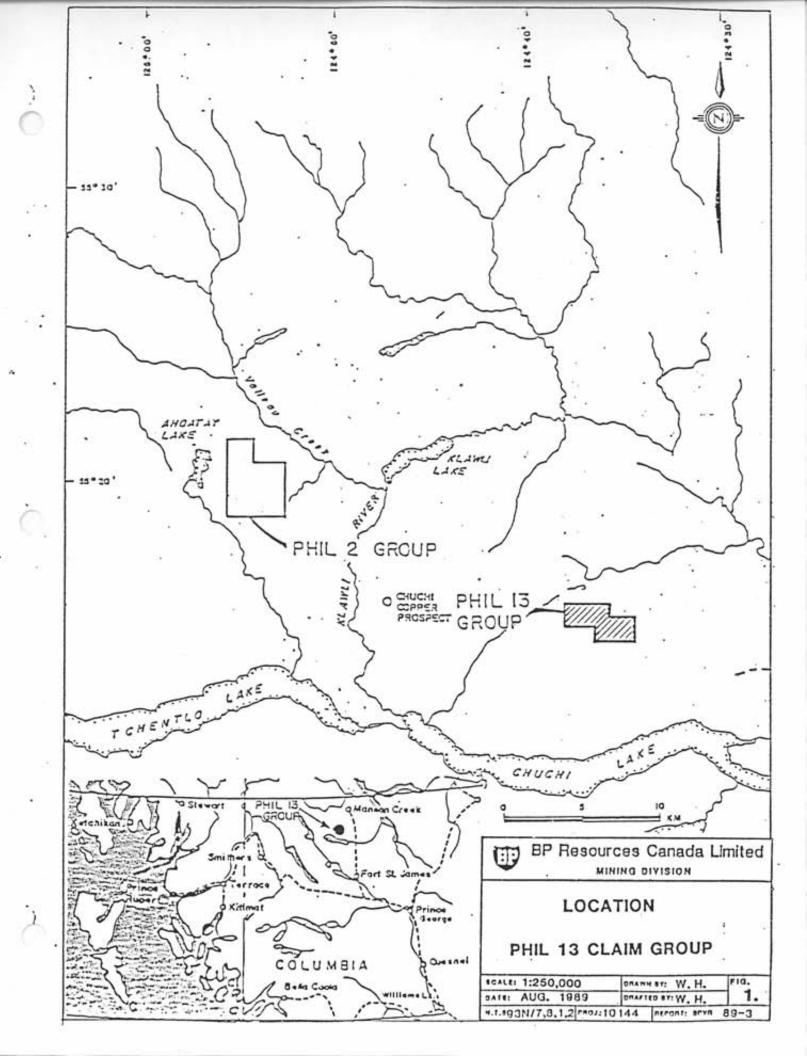
A total of \$11,600.00 has been applied as assessment on the claims.

#### 2. INTRODUCTION

#### A. Location and Access

The PHIL 13 claim group is located at 550°16′ north latitude and 124°33′ west longitude in the Omineca Mining Division, 6 km north of Chuchi Lake and approximately 90 km northwest of Fort St. James (NTS 93N/1,2,7,8 Figure 1).

Access to the claims is by a 4 wheel drive road which extends 5 km beyond the end of a north branch of Germansen-Indata logging road. This branch of the road is approximately 16 km west of mile 65.1 on the Manson Creek Highway.



## B. Topography and Vegetation

The claims enclose an area of rounded forest-covered mountains with U-shaped valleys and elevations ranging from 1275 m to 1654 m. Ridge tops are recessive and slopes rarely exceed 30°. Forest cover consists of spruce, balsam, jack pine and alder in valleys and on lower slopes giving way to scrubby balsam at higher elevations.

### C. Land Status

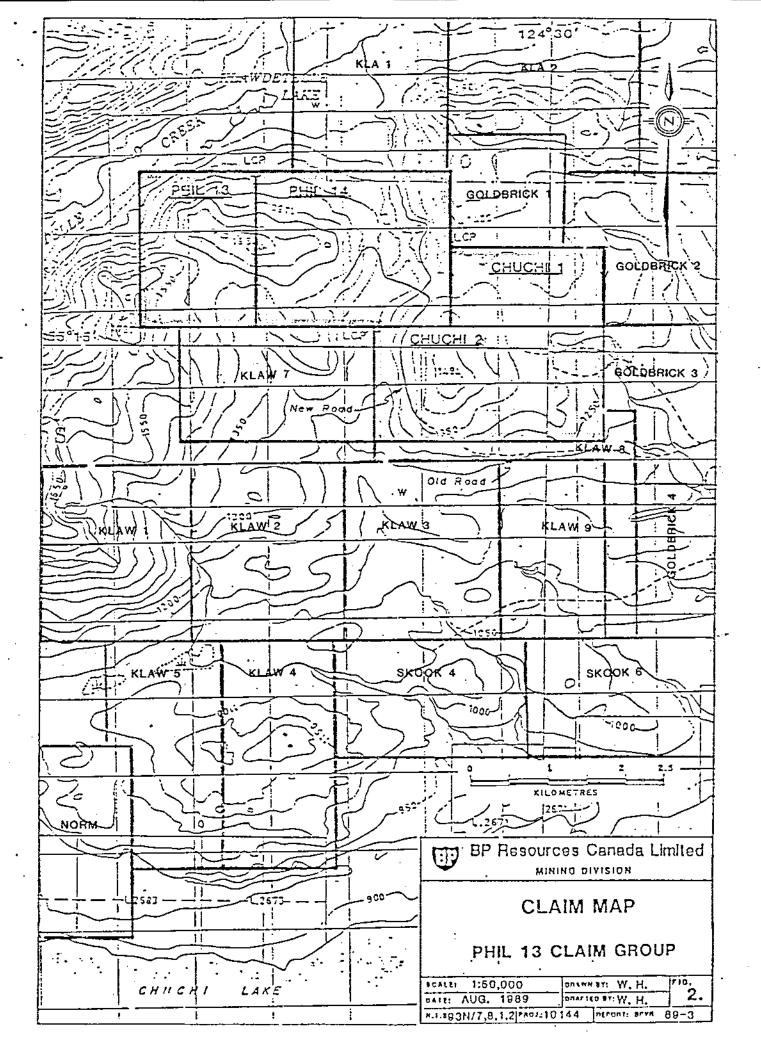
The PHIL 13 claim group (Figure 2) consists of four claims comprising 58 contiguous units, listed as follows:

Claim	Units	Record No.	Recording Date	Expiry Date*
PHIL 13	12	6035	29/12/83	29/12/91
PHIL 14	20	6036	29/12/83	29/12/91
CHUCHI 1	8	7085	16/06/85	13/06/90
CHUCHI 2	18	7086	13/06/85	13/06/90

(\* upon acceptance of applied assessment)

#### D. History

The PHIL 13 claims were staked in December 1983 as a result of the 1983 Takla regional exploration project (Farmer and Rebagliati 1984). A high-contrast gold-copper+arsenic anomaly was located by a soil sampling survey in the area of a historically known copper prospect which was previously untested for gold. In 1984 a property-wide soil sampling survey (100x200 metres) was carried

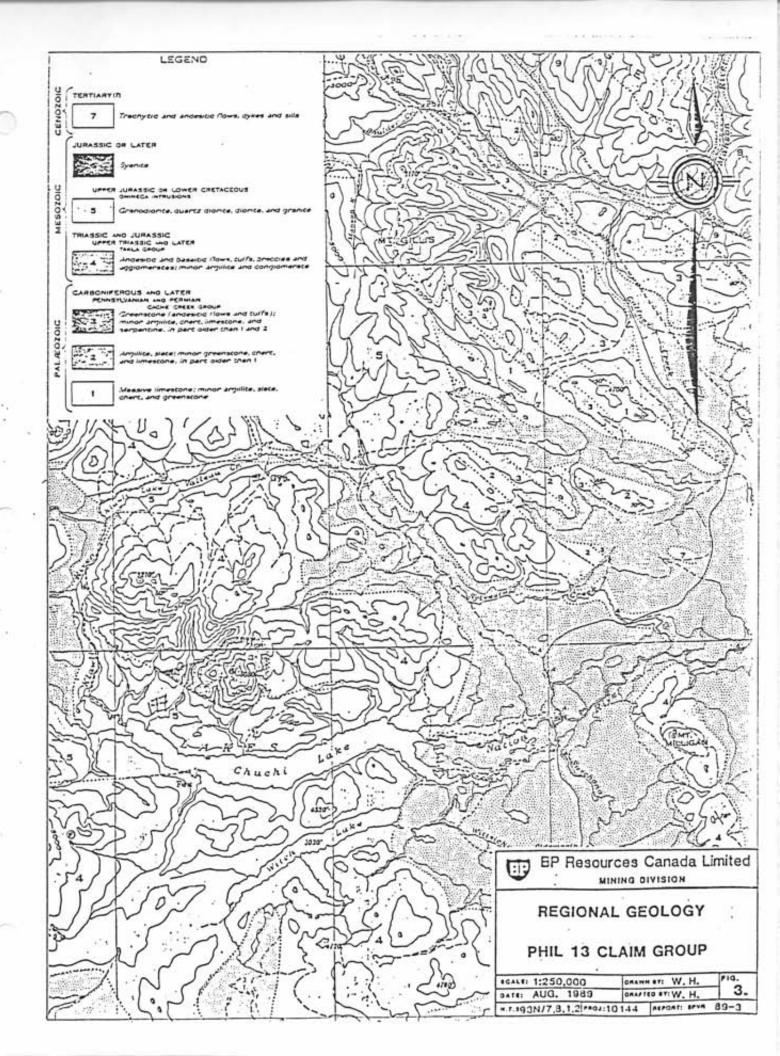


out followed by preliminary geological mapping (1:5,000). The main geochemical anomaly was confirmed and found to be spatially associated with high gold and copper in rock samples. The mineralization is associated with gossanous carbonate and epidote altered Takla augite porphyry andesite intruded by quartz-poor diorite.

A high contrast silver anomaly was also located at the southeast corner of the property in an area of poor outcrop. Additional claims were staked in this area to cover possible extensions of the anomaly. These additional claims are the CHUCHI 1 and 2 claims.

#### 3. REGIONAL GEOLOGY

The PHIL 13 claim group is situated in the central part of the Quesnel Trough, within the Intermontane Tectonic Belt of the Canadian Cordilleran. The Quesnel Trough assemblage consists principally of Upper Triassic Takla Group volcanic and sedimentary rocks which are correlative with the Nicola Group in southern B.C. and the Stuhini Group in northern B.C. (Richards 1976, Monger 1977). The volcanic rocks are island—arc type calc—alkaline to alkaline pyroxene—rich flows and volcaniclastic rocks of predominantly submarine origin. They are interlayered with volcanic—derived greywacke and siltstone, with minor limestone and conglomerate. The assemblage was intruded by the Jura—Cretaceous Omineca intrusions, principally the Hogem Batholith as well as smaller intrusions of acid to alkaline affinity. Northwest and



northeast trending transcurrent and block faults, and minor folding have offset and juxtaposed major sections of the volcanic stratigraphy with the intrusive and sedimentary rocks (Figure 3).

#### 4. TOPOGRAPHIC MAPPING

To serve as a control base for further geologic surveys, an orthophoto mapping project was carried out for the entire claim area by The Orthoshop of Calgary, Alberta. From 1987 aerial photography (1:70,000), the following were produced at a scale of 1:10,0000:

- one screened cronoflex positive showing orthophoto image and
   UTM grid.
- one cronofelx positive showing orthophoto, UTM grid and 20 m
   contour intervals (Figure 4).
- screened cronoflex positive of the digital mapping, planimetric details, topography and UTM grid (Figure 5).

#### 5. AIRBORNE GEOPHYSICS

On June 6, 1989, an airborne magnetometer/VLF-EM survey of approximately 170 line-kilometres was flown over the claim area by Aerodat Limited of Mississauga, Ontario. Details of this survey, including all pertinent maps, are included in Appendix III.

Results of the magnetic survey indicate that the area is characterized by a heterogeneous, intensely complex magnetic signature. The data exhibits regions of extreme magnetic gradient, with several circular to slightly elongated highs and lows. No preferred direction of trending is evident.

VLF-EM data is characterized by a generally low amplitude signature. The only large conductive trend is situated on the west half of the property and trends in a NNW direction.

#### **BIBLIOGRAPHY**

- Farmer, R., Rebagliati, C.M., 1984. Summary of Geological and Geochemical Work - Takla Project 1983 Selco Summary Report.
- Richards, T.A., 1976. McConnell Creek Map Area (94D, East Half), British Columbia, in Report of Activities, Part A. GSC Paper 76-14, p.43-50.
- Monger, J.W.H., 1977. The Triassic Takla Group in McConnell Creek Map Area, North Central, B.C., GSC Paper 76-29.

# APPENDIX I

Statement of Qualifications

### STATEMENT OF QUALIFICATIONS

- I, Russell H. Wong of #700 890 West Pender Street, in Vancouver, in the Province of British Columbia, do hereby state:
- 1. That I am a graduate of the University of British Columbia, Vancouver, B.C., where I obtained a B.Sc., in Geology in 1975.
- 2. That I have been active in mineral exploration since 1973.
- 3. That I have practiced my profession continuously as a staff geologist for BP Resources Canada Limited, since 1979.

Russell H. Wong/

Project Geologist

September, 1989 Vancouver, B.C.

# APPENDIX II

Statement of Costs

The Orthoshop

Suite 104,3016 19th,St.N.E. Calgary, Alberta, Canada, T2E 6Y9 (403) 250-7830 IN VOICE

V 12

AS CKIG

Sold To:

Vancouver

Invoice No. 6056

B.P. Canada Selco Division

CI No.

20133

700, 890 West Pender Street

Dare

May 24, 1989

B.C., Canada V6C 1K5 Attention: Mr. R.H. Wong

EIN

Your Purchase Order Number

Orthoshop Work Onter No.

Area Name

Project 540

2625

Location 10144

## Description of services:

For producing orthophoto mapping at 1:10000 with a 20 metre formline and supply cronoflex positives and paper prints.

\$1,150.00

For producing line mapping at 1:10000 with a 20 metre formline and supplying cronoflex positives.

\$1,365.00

F.S.T.

\$100.00

DATE INVOICE REC'D.	May 189		
CHECKED RO.	APPROV	ED KHU.	
DATE PAID ENTERED	PAID SY CHECUE N VENDCR No.	o.   VQUCHER   No.	
AREA TP ELEM.	LCC. REF.	DOLLAGS	C73
	· 1014.	3 112	100.
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Federal Sales Tax Licence #

Payment Terms

2%10, net 30, 1.5% / Month.

Federal Sales Tax

\$100.00

Invoice Total

Total

\$3,115.00

\$3,015.00

Client 1 & 2 Work order file 3 Invoice file 4 Accounting 5

Invoice No. 6056

Page



3883 NASHUA DRIVE • MISSISSAUGA • ONTARIO • CANADA • L4V 1R3 Telephone: (416) 671-2446 Telex: 06-968872 Fax: (416) 671-8160

Invoice No: 20-8943-0205

Date: June 9, 1989

BP Resources Canada Limited Mining Division Suite 700, 890 West Pender St. Vancouver, B.C. V6C 1K5 HECSIMED JUN 221000

Attention: Mr. C.D.S. Bates

In Account With:

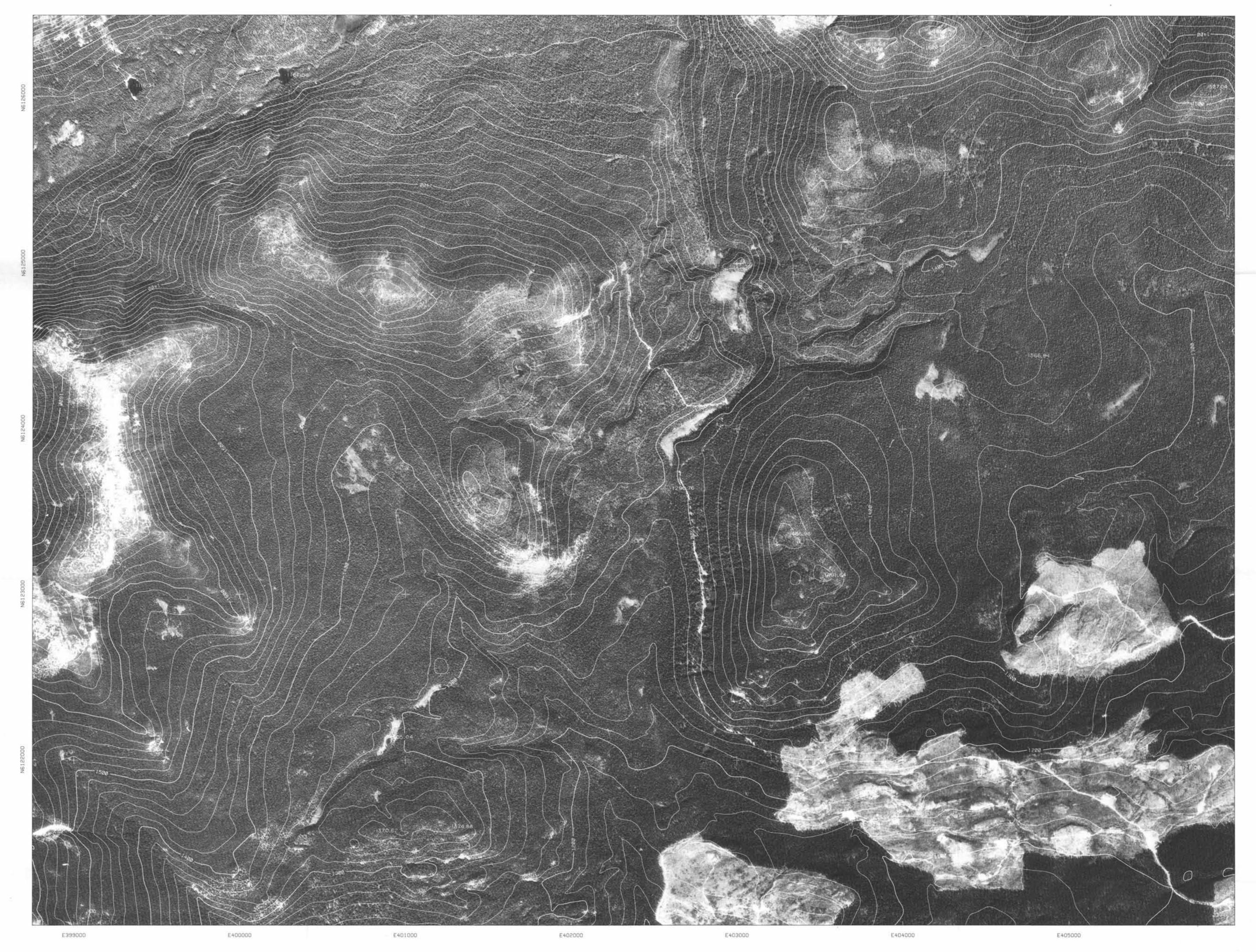
Aerodat Limited 3883 Nashua Drive Mississauga, Ontario L4V 1R3

For Helicopter-borne Mag/VLF Survey Over Chu Chi Lake

150 kilometres @ \$50.00/kilometre

AMOUNT DUE

**\$7,500.00** 



B.P. RESOURCES CANADA LTD.

CHUCHI PROJECT British Columbia

Orthophoto Map Scale 1:10000

200 0 200 400 600 800 10

Formline Interval 20 metres

Date of Photography: 1987

GEOLOGICAL B Control taken from N.T.S. map sheets 93N/1, 2, 7, 8

ASSESSMENT R Compiled June 1989 by: THE ORTHOSHOP

19,024

Part 1

BPVR 89-3 FIGURE 4

