

GEOPHYSICAL SURVEYS

GAM I - IV CLAIMS

BRIAN BORU AREA

KILLARNEY AND JONES SHOWINGS

OMINECA M.D. 93 M/4

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
<b>9587</b>
NO. _____

part 3 of 3

## INTRODUCTION

During the period June 24 to July 5th 1981 a 4 man crew head by E. W. Perkins - Geologist-Geophysicist under the supervision of R. E. Gale, P. Eng. carried out geophysical surveys of 2 showings, Killarney and Jones on the GAM I - IV claims.

## LOCATION

The claims are located in the Omineca Mining Division approximately 12 kilometers south of South Hazelton, and 3 kilometers west of Brian Boru Peak.

## GENERAL GEOLOGY

The geology of the area is described in B.C. Department of Mines Bulletin No. 43, by A. Sutherland Brown. The host rocks for the Jones and Killarney Showings are andesitic flows of the Upper Jurassic to Lower Cretaceous Brian Boru Formation.

The Killarney Zone of mineralization consisting of disseminated pyrite, pyrrhotite sphalerite, galena and an unidentified tin-bearing mineral in bleached and altered andesite is located along the west side of the steep-dipping Cap Fault in contact with older shales of the underlying Red Rose formation.

The Jones showing, located about 1 kilometer due east of the Killarney showing, occurs as irregular veinlets of pyrite-magnetite, sphalerite chalcopyrite and arsenopyrite in brecciated andesite just east of the contact with the underlying conglomerate member of the older Red Rose Formation.

PURPOSE OF WORK - RESULTS

The geophysical surveys were carried out in order to test the possibility that the sulfides exposed in the showings extended under adjoining covered areas.

As discussed by Mr. Perkins in the accompanying reports, the I.P. surveys indicate that disseminated sulfides do extend out from the showings under overburden.

The results suggest further work is warranted.



Robert E. Gale

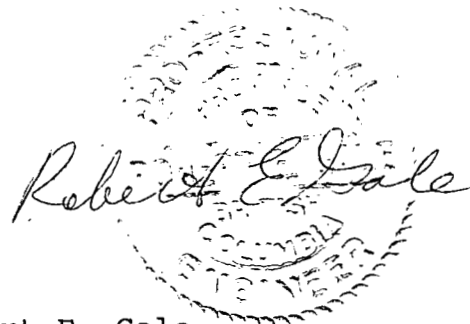
Robert E. Gale

October 20, 1981

APPENDIX ONE

STATEMENT OF COSTS

<u>Helicopter charges</u>	\$ 1,400.00
<u>Food and other camp supplies</u>	340.00
<u>Wages - 4 men for 12 days</u>	
E. Perkins - Geologist-Geophysicist	1,200.00
F. Blackham - Geophysical Technician	800.00
G. Arseneau - Geologist	600.00
C. Robertson - Field Assistant	360.00
<u>Truck Transportation</u>	200.00
<u>Report Writing and Drafting</u>	500.00
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	\$5,400.00
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A handwritten signature in cursive script, "Robert E. Gale", is written over a circular official seal. The seal is partially obscured by the signature and contains some illegible text and a central emblem.

Robert E. Gale

October 20, 1981

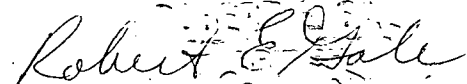
APPENDIX TWO

CERTIFICATE

I, Robert E. Gale of 4338 Ruth Crescent, North Vancouver, B.C. hereby certify:

I am a registered Professional Engineer in the Province of British Columbia. I am a graduate of the University of Alberta (BSc - 1955), the University of British Columbia (MSc - 1957) and Stanford University (PhD - 1965).

I have practised my profession for the past 26 years and am presently employed by ASARCO Exploration Company as Manager - Western Canada.



Robert E. Gale

Robert E. Gale

October 20, 1981