

Victoria / GP

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Middle Vein Prospect
92F/2

THIS PROSPECTUS CONSTITUTES A PUBLIC OFFERING OF THESE SECURITIES ONLY IN THOSE JURISDICTIONS WHERE THEY MAY BE LAWFULLY OFFERED FOR SALE AND THEREIN ONLY BY PERSONS PERMITTED TO SELL SUCH SECURITIES. NO SECURITIES COMMISSION OR SIMILAR AUTHORITY IN CANADA HAS IN ANY WAY PASSED UPON THE MERITS OF THE SECURITIES OFFERED FOR SALE BY THIS PROSPECTUS AND ANY REPRESENTATION TO THE CONTRARY IS AN OFFENCE.

NEW ISSUE

~~PROSPECTUS~~

CANADIAN IMPERIAL MINES INC.
(the "Issuer")
(Incorporated in British Columbia)

DEC 17 1991

Geological Survey Branch
MEMPR

COMMON SHARE OFFERING: 600,000 COMMON SHARES

	Price to Public	Commission ⁽¹⁾	Net Proceeds to the Issuer ⁽²⁾
Per Share	\$0.40	\$0.04	\$0.36
Total	\$240,000	\$24,000	\$216,000

FLOW-THROUGH COMMON SHARE OFFERING: 200,000 COMMON SHARES

	Price to Public	Commission ⁽¹⁾⁽³⁾	Net Proceeds to the Issuer
Per Share	\$0.40	Nil	\$0.40
Total	\$80,000	Nil	\$80,000

- (1) In addition, the Agent will be granted Agent's Warrants as described in the section captioned "Plan of Distribution".
- (2) Before deduction of the balance of costs of this Prospectus estimated at \$30,000.
- (3) The Issuer will pay a fee of \$8,000 to the Agent, from general working capital, in respect of the sale of the Flow-Through Common Shares.

THE PRICE TO THE PUBLIC WAS ESTABLISHED PURSUANT TO NEGOTIATIONS BETWEEN THE ISSUER AND THE AGENT.

THERE IS PRESENTLY NO MARKET THROUGH WHICH THE SECURITIES OF THE ISSUER MAY BE SOLD AND A PURCHASE OF THE SHARES OFFERED BY THIS PROSPECTUS MUST BE CONSIDERED A SPECULATION. THE ISSUER'S MINERAL PROPERTY IS IN THE PRELIMINARY STAGES OF EXPLORATION AND DEVELOPMENT AND THERE IS NO KNOWN BODY OF COMMERCIAL ORE PRESENT ON THE PROPERTY. REFERENCE IS MADE TO THE SECTIONS CAPTIONED "RISK FACTORS" AND "DILUTION".

NO PERSON IS AUTHORIZED BY THE ISSUER TO PROVIDE ANY INFORMATION OR TO MAKE ANY REPRESENTATION OTHER THAN THOSE CONTAINED IN THIS PROSPECTUS OR IN CONNECTION WITH THE ISSUE AND SALE OF THE SECURITIES OFFERED BY THE ISSUER.

LOG NO: 500 12 1002	VAN 4
ACTION:	
FILE NO:	

THE OFFERING OF FLOW-THROUGH COMMON SHARES IS INTENDED TO ALLOW INVESTORS TO ACHIEVE CERTAIN TAX BENEFITS IN THE YEAR OF SUBSCRIPTION. THE ACHIEVING OF SUCH BENEFITS BY THE INVESTORS AND THE INCURRING OF EXPENDITURES BY THE ISSUER ON BEHALF OF THE INVESTORS ARE SUBJECT TO RISK AND UNCERTAINTY WHICH ARE DESCRIBED IN THE SECTIONS CAPTIONED "CANADIAN INCOME TAX CONSIDERATIONS OF FLOW-THROUGH SHARES" AND "RISK FACTORS".

ONE OR MORE OF THE DIRECTORS OF THE ISSUER ARE DIRECTORS OF OTHER NATURAL RESOURCE COMPANIES AND HAVE POTENTIAL CONFLICTS OF INTERESTS WHEN SERVING IN SUCH CAPACITIES. REFERENCE IS MADE TO THE SECTION CAPTIONED "DIRECTORS AND OFFICERS".

FOR COMPARISON OF THE SHARES BEING OFFERED TO THE PUBLIC FOR CASH AND THOSE ISSUED TO PROMOTERS, DIRECTORS AND OTHER INSIDERS, REFERENCE IS MADE TO THE SECTION CAPTIONED "PRINCIPAL SHAREHOLDERS". UPON COMPLETION OF THIS OFFERING, THE SECURITIES OFFERED HEREUNDER WILL REPRESENT 29.244% OF THE ISSUED SHARES OF THE ISSUER THEN OUTSTANDING WHILE THE DIRECTORS AND SENIOR OFFICERS OF THE ISSUER WILL HOLD 49.323% OF THE ISSUED SHARES THEN OUTSTANDING. THE PUBLIC WILL EXPERIENCE DILUTION OF \$0.28 PER SHARE OR 70%. REFERENCE IS MADE TO THE SECTIONS CAPTIONED "DILUTION" AND "PRINCIPAL SHAREHOLDERS".

THE AGENT'S WARRANTS HAVE BEEN DISTRIBUTED UNDER THIS PROSPECTUS. ANY SHARES ACQUIRED BY THE AGENT UNDER THE GUARANTEE WILL ALSO BE DISTRIBUTED UNDER THIS PROSPECTUS THROUGH THE FACILITIES OF THE VANCOUVER STOCK EXCHANGE AT THE MARKET PRICE AT THE TIME OF SALE. REFERENCE IS MADE TO THE SECTION CAPTIONED "PLAN OF DISTRIBUTION".

THE VANCOUVER STOCK EXCHANGE HAS CONDITIONALLY LISTED THE SECURITIES OFFERED PURSUANT TO THIS PROSPECTUS. LISTING IS SUBJECT TO THE ISSUER FULFILLING ALL THE LISTING REQUIREMENTS OF THE EXCHANGE ON OR BEFORE DECEMBER 11, 1991 INCLUDING PRESCRIBED DISTRIBUTION AND FINANCIAL REQUIREMENTS.

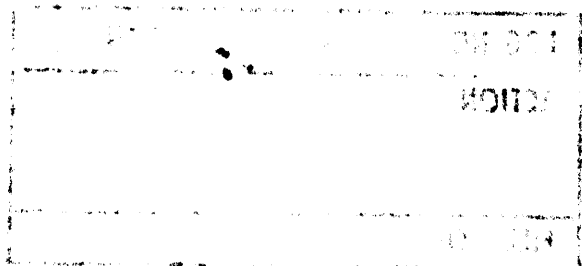
WE, AS AGENT, CONDITIONALLY OFFER THESE SECURITIES SUBJECT TO PRIOR SALE, IF, AS AND WHEN ISSUED BY THE ISSUER AND ACCEPTED BY US IN ACCORDANCE WITH THE CONDITIONS CONTAINED IN THE AGENCY AGREEMENT REFERRED TO IN THE SECTION CAPTIONED "PLAN OF DISTRIBUTION".

THIS PROSPECTUS IS DATED THE 4TH DAY OF NOVEMBER, 1991.

A G E N T

BRINK HUDSON & LEFEVER LTD.
1200 - 595 Burrard Street
Vancouver, B.C.
V7X 1J1

EFFECTIVE DATE: NOVEMBER 5, 1991



PROSPECTUS SUMMARY

The Offering

Issuer: CANADIAN IMPERIAL MINES INC. is in the business of acquiring, exploring and developing natural resource properties. Reference is made to the section captioned "Business and Property of the Issuer".

Securities Offered: 600,000 Common Shares
200,000 Flow-Through Common Shares

Gross Proceeds: \$320,000

Net Proceeds: \$296,000

Price: \$0.40 per common share

Commission: \$0.04 per common share

The Agent has also been granted a non-transferable warrant entitling it to purchase up to 200,000 common shares of the Issuer at \$0.40 per common share, which shares are also qualified by this Prospectus for sale to the public, at any time up to the close of business one year following the date on which the shares of the Issuer are listed and called for trading on the Vancouver Stock Exchange.

Use of Proceeds: The sum of \$75,000 derived from net proceeds of this Offering will be used to conduct an exploration program on the Middle Vein Prospect recommended in the report of Dr. Richard E. Kucera, dated September 20, 1991; the balance will be used to pay the estimated costs of this Prospectus, the property payments as they become due and the remainder will be added to the Issuer's working capital.

Key Personnel: The Directors and Officers who are key to the success of the Issuer are Mr. Tom K.T. Cheng, Mr. Michael I-Kuo Terng and Mr. Peter Tsaparas.

Dividend Policy: All dividends paid by the Issuer on shares of any class shall be declared and paid according to the number of such shares held.

Risk Factors: Investment in the common shares must be considered a speculation due to the nature of the Issuer's business and the present stage of its development. Exploration for minerals is speculative. There is no known body of commercial ore on the natural resource

properties of the Issuer and the marketability of any minerals which may be found by the Issuer may be affected by numerous factors beyond the Issuer's control. The Issuer has no history of earnings or dividend record. Reference is made to the sections captioned "Risk Factors" and "Dilution".

THE FOREGOING IS A SUMMARY ONLY AND SHOULD BE READ IN CONJUNCTION WITH THE MORE DETAILED INFORMATION CONTAINED ELSEWHERE IN THIS PROSPECTUS.

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NAME AND INCORPORATION OF THE ISSUER

The Issuer, Canadian Imperial Mines Inc., was incorporated on September 18, 1987 as a limited company pursuant to the laws of British Columbia by the registration of memorandum and articles with the British Columbia Registrar of Companies.

The head office of the Issuer is located at No. 120, 13751 Mayfield Place, Richmond, British Columbia, V6V 2G9. The registered and records office of the Issuer is located at #100, 200 Granville Street, Vancouver, British Columbia, V6C 1S4.

PLAN OF DISTRIBUTION

Offering

The Issuer by its Agent hereby offers (the "Offering") to the public through the facilities of the Vancouver Stock Exchange (the "Exchange") 600,000 common shares (the "Common Shares") of the Issuer and 200,000 flow-through common shares (the "Flow-Through Common Shares") of the Issuer (the Common Shares and the Flow-Through Common Shares collectively referred to as the "Shares") at a price of \$0.40 per Share (the "Offering Price"), which price was established pursuant to negotiations between the Issuer and the Agent.

The Offering will be made in accordance with the rules and policies of the Exchange on a day (the "Offering Day") determined by the Agent and the Issuer, with the consent of the Exchange, within a period of 180 days from the date on which the Shares are conditionally listed on the Exchange.

Those Directors and other insiders of the Issuer who are residents of British Columbia may purchase Shares from the Offering.

Appointment of Agent

By Agreement dated August 2, 1991 (the "Agency Agreement") the Issuer appointed its agent, Brink Hudson & Lefever Ltd. (the "Agent") to offer the Shares to the public through the facilities of the Exchange.

The Agent will receive a commission of \$0.04 per Common Share sold under the Offering and a cash fee of \$8,000 in the event all of the Flow-Through Common Shares are sold, which cash fee shall be paid from the Issuer's general working capital.

The Agent reserves the right to offer selling group participation, in the normal course of the brokerage business, to selling groups of licensed broker-dealers, brokers and investment dealers, who may or may not be offered part of the commissions or bonuses derived from the Offering.

The obligations of the Agent under the Agency Agreement may be terminated prior to the opening of the market on the Offering Day at the Agent's discretion on the basis of its assessment of the state of the financial markets and may also be terminated upon the occurrence of certain stated events.

The Issuer has granted the Agent a right of first refusal to provide further public equity financing to the Issuer for a period of twelve months from the date on which the Superintendent of Brokers for British Columbia issues a receipt for a final Prospectus of the Issuer with respect to the Offering (the "Effective Date").

There are no payments in cash, securities or other consideration being made, or to be made, to a promoter, finder or any other person or company in connection with the Offering.

Flow-Through Common Share Offering

The Flow-Through Common Shares being offered to the public hereunder on a first come first served basis are common shares of the Issuer which will be issued to investors in the denominations and in the names provided by the Agent.

Pursuant to the Flow-Through Share Subscription Agreement included in this Prospectus as Schedule "A", the Issuer has agreed to:

- (a) incur a specified amount of Canadian Exploration Expenses ("CEE") as defined under the Income Tax Act (Canada) (the "Act") within a period of 18 months from the Offering Day; and
- (b) within the said 18 month period (or up to 30 days thereafter) renounce the CEE to the investors.

The persons whose names appear on the list of investors provided to the Issuer by the Agent will be required to execute the Power of Attorney attached to this Prospectus as Schedule "B", which appoints a Director or Senior Officer of the Issuer as attorney for the purpose of executing the Flow-Through Share Subscription Agreement on their behalf. Failure to execute and deliver the Power of Attorney to the Issuer will preclude the investor from deducting any CEE incurred by the Issuer pursuant to the terms of the Flow-Through Share Subscription Agreement.

The Flow-Through Common Shares will entitle the investors to CEE as defined under the Act.

The gross proceeds from the sale of the Flow-Through Common Shares will constitute exploration funds (the "Exploration Funds"). Until expended, the Issuer will hold the Exploration Funds in an interest-bearing account with a Canadian chartered

bank separate from the Issuer's other funds. Any interest accruing to this account will be solely for the benefit of the Issuer and will be added to working capital. The Issuer will expend the Exploration Funds to incur expenditures which will qualify as CEE.

Please refer to the section captioned "Canadian Income Tax Considerations of Flow-Through Shares" for particulars of the income tax treatment of the Exploration Funds.

It is the Issuer's intention to expend the Exploration Funds by February 29, 1992 and any funds not expended by that date will be expended by February 28, 1993. Investors will be advised by the Issuer of the amount of the Exploration Funds expended on their behalf by not later than March 31, 1992 or March 31, 1993, as the case may be. At the same time the Issuer will advise investors of the amount of CEE incurred on their behalf.

The Issuer has previously issued flow-through common shares; reference is made to the sections captioned "Prior Sales" and "Interest of Management and Others in Material Transactions" for particulars thereof.

Agent's Guarantee

The Agent has agreed to purchase up to 800,000 Shares not sold at the conclusion of the Offering. In consideration therefor, the Agent has been granted non-transferable share purchase warrants (the "Agent's Warrants") entitling it to purchase up to 200,000 common shares of the Issuer at any time up to the close of business one year from the date on which the Issuer's common shares are listed, posted and called for trading on the Exchange, at a price of \$0.40 per share.

The Agent's Warrants will contain, among other things, anti-dilution provisions and provision for appropriate adjustment of the class, number and price of shares issuable pursuant to any exercise thereof upon the occurrence of certain events, including any subdivision, consolidation or reclassification of the shares or the payment of stock dividends.

Additional Offering

This Prospectus also qualifies the issuance of the Agent's Warrants and the sale to the public, at the market price for the shares at the time of sale, of any shares purchased by the Agent hereunder. The Issuer will not receive any proceeds from the sale of any such shares by the Agent, all of which proceeds will accrue to the Agent.

Conditional Listing on the Exchange

The Vancouver Stock Exchange has conditionally listed the securities offered pursuant to this Prospectus. Listing is subject to the Issuer fulfilling all the listing requirements of the Exchange on or before December 11, 1991 including prescribed distribution and financial requirements.

USE OF PROCEEDS

If all the Shares offered pursuant to this Prospectus are sold, the net proceeds to the Issuer will be \$296,000 which, after deducting the Issuer's working capital deficit of \$86,703 as at September 30, 1991, will total approximately \$209,297. The total available funds, in order of priority, will be expended as follows:

1. To pay the balance of the estimated costs of this Prospectus \$ 30,000
 2. To pay the Agent's fee with respect to the Flow-Through Common Share Offering \$ 8,000
 3. To pay the estimated costs of the exploration program on the Issuer's Middle Vein Property recommended in the report of Dr. Richard E. Kucera dated September 20, 1991 \$ 75,000*
 4. To pay property payments on the Issuer's Middle Vein Property \$ 35,000
 5. Reserve for working capital \$ 61,297
- Total: \$209,297

* This estimated amount will be paid from the proceeds of the sale of the Flow-Through Common Shares forming part of this Offering.

Any proceeds from the exercise of the Agent's Warrants will be added to working capital.

The foregoing represents the Issuer's best estimate as to how the proceeds of the Offering will be expended. The Issuer intends to use the proceeds for the purposes set out in the above table. The Issuer has retained Dr. Richard Kucera to act as its consultant in regard to the exploration and development of the Middle Vein Property. The Issuer will not discontinue or depart from the recommended exploration program on the Middle Vein Property unless advised in writing to do so by its consultant.

An amendment to this Prospectus will be filed if changes or departures to the recommended exploration program are contemplated during the primary distribution of the Issuer's securities.

No part of the proceeds will be used to invest, underwrite or trade in securities other than those that qualify as investments in which trust funds may be invested under the laws of the jurisdictions in which the Shares offered by this Prospectus may be lawfully sold except as may be permitted by the policies of the Superintendent of Brokers for British Columbia (the "Superintendent") and/or the Exchange should the shares of the Issuer become listed on the Exchange. Should the Issuer propose to use the proceeds to acquire other than trustee-type securities after the distribution of the Shares offered by this Prospectus, shareholder approval must be obtained and the consent of the Superintendent or the Exchange, as the case may be, and any other regulatory authority having jurisdiction over the sale of the Shares offered by this Prospectus, will be obtained.

An amendment to this Prospectus will be filed in the event of any material change in the affairs of the Issuer during the primary distribution of its securities; following completion of the primary distribution, notice of any such material change will be given to the Issuer's shareholders, in accordance with the requirements of the appropriate regulatory authorities.

DILUTION

Based upon the balance sheet of the Issuer as at June 30, 1991, the following table reflects the dilution which will result from the purchase of the Shares offered pursuant to this Prospectus:

Dilution per Share

Offering price per share	\$0.40
Net tangible book value before the Offering	\$0.04
Increase of net tangible book value attributable to the Offering	\$0.08(1)
Net tangible book value after the Offering	\$0.12
Dilution to the public	\$0.28(2)
Percentage of dilution in relation to the Offering price	70%

- (1) After deduction of the Agent's commission and the balance of the estimated costs of this Prospectus.
- (2) Does not give effect to the exercise of the Agent's Warrants or the incentive stock options granted to the directors.

RISK FACTORS

The Shares offered hereby are considered speculative due to the nature of the Issuer's business and the present stage of its development. A prospective investor should consider carefully the following factors:

1. There is no current market for the shares of the Issuer and there can be no assurances given that one will develop.
2. Exploration for minerals is a speculative venture involving risk. Expenditures made on mineral properties may not result in the discovery of commercial quantities of ore. Based on the speculative nature of mineral exploration, the Issuer cannot predict if or when mining operations would be profitable and dividends paid to shareholders.
3. There is no known body of commercial ore present on the property of the Issuer.
4. The marketability of the minerals acquired by the Issuer may be affected by numerous factors beyond the control of the Issuer. The exact effect of these factors, which include mineral market fluctuations, cost and availability of processing equipment and government regulation (including regulations pertaining to royalties, importing, exporting and environmental protections) cannot be accurately determined.
5. Five of the seven reverted crown grant two post claims comprising the Middle Vein Property have not been surveyed and, in accordance with the mining laws of the Province of British Columbia, their precise location and area may be in doubt. The existence of a title report should not be construed as suggesting that the Issuer will be able to obtain good and marketable title to the property described in this Prospectus. The Issuer follows the usual industry practice in obtaining title reports with respect to its properties.
6. The Issuer has no history of earnings and has not paid and does not expect, for the foreseeable future, to pay any dividends on its common shares.
7. The 800,000 Shares offered by this Prospectus represent 29.244% of the total common shares which will be issued and outstanding if all Shares are sold pursuant to this Offering. In the event that all Shares are sold, 49.323% of the Issuer's common shares will be held by Officers and Directors and 50.768% of the common shares will be held by the public.

DIRECTORS AND OFFICERS

The names and municipality of residence of all the Directors and Officers of the Issuer, as well as their respective principal occupations within the five preceding years, are as follows:

**Name, Municipality of Residence
and Position with the Issuer**

Principal Occupations

TOM K.T. CHENG
Richmond, B.C.

President and
Director

Businessman; President of
Innotrend Investments Ltd.,
a private investment
holding company.

STEPHEN KHEE VUN YAP
Vancouver, B.C.

Director

Independent Real Estate De-
veloper, President of Winner
Land Inc., 1985 to present.

MICHAEL I-KUO TERNG
Montebello, California

Director

Businessman, hotelier and
investor; Chairman of Lida
(Canada) Holding Ltd.;
President of the Winpeace
International Group, 1985
to present.

LIAN THYE FONG
North Vancouver, B.C.

Director and Secretary

Self-employed; managing
director of Low Cost
Pharmacy Ltd. at Main
and Pender, Vancouver, B.C.,
1985 to present.

PETER TSAPARAS
Burnaby, B.C.

Vice-President,
Explorations

Professional Geological
Engineer since 1974; Chief
Geologist for Bethlehem Copper
from 1969 to 1974; Exploration
Manager for Cominco Europe
from 1974 to 1976; Independent
Consultant for past 10 years.
Director of Briana Resources
Ltd., 1986 to 1988; Director
of Moche Resources Inc.,
1986 to 1988; President and
Director of Minera Rayrock Inc.
(formerly Westlake Industries
Ltd.), 1984 to 1990; Vice-
President of St. Philips
Resources Ltd., 1990 to
early 1991; Director of
Moondust Ventures Inc. until
May, 1991; Presently President
and Director of San Andreas
Resources Corp. (formerly Pizza
Patio Management Ltd.)

The Directors will devote all necessary time and effort to the affairs of the Issuer to ensure that the affairs of the Issuer are properly carried out.

Certain of the Directors may also serve as directors of other public companies and, to the extent that such other companies may participate in ventures in which the Issuer may participate, the Directors of the Issuer may have a conflict of interest in negotiating and concluding terms respecting the extent of such participation. From time to time several companies may participate in the acquisition, exploration and development of natural resource properties thereby allowing for their participation in larger programs, permitting involvement in a greater number of programs and reducing financial exposure in respect of any program. It may also occur that a particular company will assign all or a portion of its interest in a particular program to another of these companies due to the financial position of the company making the assignment.

In accordance with the laws of British Columbia, the Directors of the Issuer are required to act honestly, in good faith and in the best interests of the Issuer. In determining whether or not the Issuer will participate in a particular program and the interest therein to be acquired by it, the Directors will primarily consider the degree of risk to which the Issuer may be exposed and its financial position at that time.

PROMOTERS

Michael I-Kuo Terng, a Director of the Issuer, is the promoter of the Issuer as that term is defined by the British Columbia Securities Act (the "Act").

Mr. Terng has entered into transactions with the Issuer as disclosed in the sections captioned "Escrowed Shares" and "Options to Purchase Shares".

BUSINESS AND PROPERTY OF THE ISSUER

The Issuer is engaged in the acquisition, exploration and development of natural resource properties. The Issuer owns an interest in the mining property described hereunder and intends to seek and acquire additional properties worthy of exploration and development.

Middle Vein Property, Victoria Mining
Division, British Columbia

The Option

By Option Agreement dated October 16, 1989, as amended by Amending Agreement dated July 15, 1991, with Edward Clive

Ashworth of 4491 Marine Drive, West Vancouver, British Columbia ("Ashworth"), the Issuer was granted the sole and exclusive option (the "Option") to acquire a 100% interest in and to seven reverted crown grant mineral claims located in the Victoria Mining Division, British Columbia, more particularly described as follows:

<u>Name</u>	<u>Lot No.</u>	<u>Tenure No.</u>	<u>Expiry Date</u>
Apex	99G	260731	September 9, 1994
Skyline	100G	260732	September 9, 1994
War Lion	152G	260710	July 4, 1994
Conqueror	153G	260711	July 4, 1994
Majestic	154G	260712	July 4, 1994
Empress of India	155G	260713	July 4, 1994
IXL	156G	260714	July 4, 1994

(the "Middle Vein Property")

In order to exercise the Option, the Issuer must pay to Ashworth the sum of \$90,000 (of which \$20,000 has been paid) as follows: the sum of \$25,000 within 10 days of the listing of the shares of the Issuer on the Vancouver Stock Exchange, \$10,000 on or before January 1, 1992, \$10,000 on or before January 1, 1993 and the balance of \$25,000 on or before September 1, 1993. In addition, the Issuer must issue to Ashworth 100,000 shares in its capital stock in four equal installments of 25,000 shares each, the first installment to be issued within 10 days of the listing of the shares of the Issuer on the Vancouver Stock Exchange and thereafter, upon the completion of each of the first, second and third phases of a program of exploration of the Middle Vein Property but, in any event, on or before January 1, 1992, January 1, 1993 and September 1, 1993, respectively. Neither an insider nor a promoter of the Issuer has held any interest in the Middle Vein Property during the past three years.

The Property

The Middle Vein Property is located about 20km southeast of Port Alberni, British Columbia and is accessible by helicopter or by foot. There are no roads, surface or underground plants, equipment or developments on the Middle Vein Property.

The Middle Vein Property is underlain by the lower part of the Sicker Group rocks, represented by the Duck Lake Formation, composed of grey to greenish andesite, dacite tuffs and breccias. Mineralization on the Middle Vein Property consists of lenticular quartz-carbonate veins up to 5 metres long and 20 cm wide, associated with a very strong and persistent NNE trending shear zone 2 to 3 metres wide that cuts light to dark brown weathered andesite. The shear zone, although obscured in places by overburden, is exposed for a distance of 350 metres on the northern portion of the property. The veins strike N10° - 18°E and dip 78° - 85° E and some are found associated with light-

coloured feldspar-hornblende dykes that are as much as 2 metres wide. One 20 cm. channel sample assayed 0.88 oz/ton Au.

Exploration by the Issuer during 1989 and 1991 included establishing grid lines, collecting chip and channel samples, geological mapping and geophysical surveying. Individual quartz veins assayed up to 1.4 oz Au/ton across widths of up to 10 cm.

The Report

The report of Dr. Richard E. Kucera, Ph.D., F.G.A.C., dated September 20, 1991 (the "Report"), a copy of which is annexed to and forms part of this Prospectus, reviews the recent exploration work conducted on the Middle Vein Property.

As stated by Dr. Kucera at page 25 of his Report:

"The 1980 and 1983 program by Lode Resources, the 1989 work program by Ashworth Explorations Limited and the 1991 program by Hi-Tec Resource Management on the Middle Vein Prospect have demonstrated the presence of gold. Gold values range up to 2900 ppb across 100 cm. of the shear zone whereas individual quartz-carbonate veins assay up to 1.4 oz Au/ton across widths of up to 10 cm."

He concludes that:

"(the) Exploration potential of the Middle Vein Prospect is judged to be good. Further development of this property is justified."

Dr. Kucera recommends that the Issuer conduct a two-stage program of exploration and development of the Middle Vein Property; the first stage of such program is to consist of aerial photo coverage, stereo-photo interpretation, detailed geological mapping, legal surveying, compilation of a topographic base map and extensive sampling and surface trenching and is estimated to cost \$75,000.

The Issuer intends to undertake such recommended program of exploration with the proceeds from the sale of the Flow-Through Common Shares forming part of this Offering.

As at September 30, 1991, the Issuer had incurred exploration expenditures aggregating \$111,369 in respect of the Middle Vein Property.

TO THE KNOWLEDGE OF THE ISSUER THE MIDDLE VEIN PROSPECT IS WITHOUT A KNOWN BODY OF COMMERCIAL ORE AND ANY PROGRAM CONDUCTED THEREON MUST BE CONSIDERED AN EXPLORATORY SEARCH FOR ORE.

ACQUISITIONS

The only material acquisitions made by the Issuer during the past two years were pursuant to the Option Agreement dated October 16, 1989, as amended by Amending Agreement dated July 15, 1991, between Edward Clive Ashworth and the Issuer (the "Middle Vein Agreement"), and the Option Agreement dated for reference October 16, 1989, between Edward Clive Ashworth and the Issuer (the "Plat/Census Agreement"). The Middle Vein Agreement provides for the acquisition by the Issuer of a 100% interest in the Middle Vein Property and the Plat/Census Agreement provided for the acquisition by the Issuer of a 100% interest in the Plat/Census Property. The Issuer has since abandoned the Plat/Census Property and the Plat/Census Agreement has been terminated.

Reference is made to the section captioned "Business and Property of the Issuer" for particulars of the Middle Vein Agreement.

SHARE AND LOAN CAPITAL STRUCTURE

The authorized capital of the Issuer consists of 25,000,000 common shares without par value of which 1,935,570 shares have been issued as fully paid and non-assessable.

The common shares of the Issuer rank equally as to dividends, voting rights and as to any distribution of assets on winding-up or liquidation.

The share and loan capital structure of the Issuer is as follows:

<u>Designation of Security</u>	<u>Authorized</u>	<u>Outstanding as of 30th September 1991</u>	<u>Outstanding as of the date of this Prospectus</u>	<u>Outstanding on Completion of Offering</u>
common shares	25,000,000	1,935,570	1,935,570	2,735,570 ⁽¹⁾ (2)

(1) Does not give effect to the exercise of the Agent's Warrants or the incentive stock options granted to directors of the Issuer.

(2) Does not include the 100,000 common shares of the Issuer that may be issued pursuant to the terms of the Option Agreement described in the section captioned "Business and Property of the Issuer".

The Issuer had an accumulated deficit of \$266,701 as at September 30, 1991.

PRIOR SALES

Since incorporation to the date of this Prospectus, the Issuer has sold 1,935,570 common shares for cash as follows:

<u>Designation of Class</u>	<u>Number of Shares</u>	<u>Price Per Share</u>	<u>Commissions Paid</u>	<u>Net Proceeds to Issuer</u>
common shares	750,000(1)	\$0.01	Nil	\$ 7,500
common shares	1,077,000	\$0.25	Nil	\$269,250
common shares	15,000	\$0.35	Nil	\$ 5,250
common shares	5,000	\$0.40	Nil	\$ 2,000
common shares	88,570(2)	\$0.35	Nil	<u>\$ 31,000</u>
			TOTAL:	<u>\$315,000</u>

- (1) These shares are held in escrow and reference is made to the section captioned "Escrowed Shares" for further details.
- (2) These shares were issued as flow-through common shares; reference is made to the section captioned "Interest of Management and Others in Material Transactions".

POOLED SHARES

There are no shares of the Issuer held in pool.

ESCROWED SHARES

There are a total of 750,000 common shares of the Issuer held in escrow as follows:

<u>Designation of Class</u>	<u>Number of Shares Held in Escrow</u>	<u>Percentage of Class</u>
common shares	750,000	38.748%

The 750,000 common shares of the Issuer (the "Principals' Shares") were issued for cash at \$0.01 per share to the persons ("Principals") as follows:

EXECUTIVE COMPENSATION

The Issuer has one executive officer: Tom K.T. Cheng, President and a Director of the Issuer.

Since incorporation, Mr. Cheng has received no remuneration from the Issuer.

Mr. Cheng has been granted an incentive stock option to purchase 100,000 shares of the Issuer, the particulars of which are disclosed in the section captioned "Options to Purchase Shares".

OPTIONS TO PURCHASE SHARES

The Issuer has granted incentive stock options as follows:

<u>Optionee</u>	<u>Number of Common Shares under Option</u>	<u>Exercise Price and Term</u>
2 Directors who are Senior Officers	120,000) \$0.45 per share exercisable at any time up to and inclusive of the fifth anniversary of the date of the receipt for the Prospectus.
2 Directors who are not Senior Officers	150,000	

AUDITORS, TRANSFER AGENT AND REGISTRAR

The Auditors of the Issuer are Ellis Foster, Chartered Accountants, of #304, 1867 West Broadway, Vancouver, British Columbia, V6J 4W1.

The Registrar and Transfer Agent for the Issuer is Montreal Trust Company of Canada, 510 Burrard Street, Vancouver, British Columbia, V6C 3B9.

CANADIAN INCOME TAX CONSIDERATIONS OF FLOW-THROUGH SHARES

The following is a summary of the principal federal income tax consequences arising under the Income Tax Act of Canada (the "Act"), the Regulations thereunder and any proposed amendments to the Act or Regulations announced by the Federal Minister of Finance as of the date hereof, and throughout this subheading, reference to "Flow-Through Shares" and "Shares" is reference to the Shares offered under this Offering.

In the opinion of Thorsteinssons, tax lawyers, the following is, as of the date hereof, a fair and accurate summary of the principal federal income tax consequences arising under the Act to an investor who is resident in Canada, who acquires Flow-Through Shares of the Issuer under this Offering, to whom such shares represent capital property and to whom resource expenses are renounced by the Issuer in accordance with the terms of the Flow-Through Share Subscription Agreement annexed hereto as Schedule "A", and the renunciation provisions of the Act.

The income tax consequences will not be the same for all investors but may vary depending on a number of factors, including the province of residence of the investor, whether the shares of the Issuer acquired by him will be characterized as capital property and the amount that his taxable income would be but for his participation in this Offering. THE FOLLOWING DISCUSSION OF THE CANADIAN INCOME TAX CONSEQUENCES IS, THEREFORE, OF A GENERAL NATURE ONLY AND IS NOT INTENDED TO CONSTITUTE A COMPLETE ANALYSIS OF THE INCOME TAX CONSEQUENCES AND SHOULD NOT BE INTERPRETED AS LEGAL OR TAX ADVICE TO ANY PARTICULAR INVESTOR. EACH PROSPECTIVE INVESTOR SHOULD OBTAIN ADVICE FROM HIS OWN TAX ADVISOR AS TO BOTH THE FEDERAL AND PROVINCIAL INCOME TAX CONSEQUENCES OF HIS PARTICIPATION IN THIS OFFERING.

This summary does not address the federal income tax consequences of investors who are:

- (a) not residents of Canada;
- (b) corporations, whose principal business is related to the exploitation of natural resources (referred to in paragraph 66(15)(h) of the Act as "principal business corporations");
- (c) traders or dealers in resource properties referred to in subsection 66(5) of the Act;
- (d) agents acting on behalf of the Issuer in completing a flow-through share offering; or
- (e) partnerships or trusts.

Canadian Exploration Expenses

Any eligible Canadian Exploration Expense ("CEE") incurred by the Issuer and renounced by it to an investor in Flow-Through Shares in accordance with the terms of the Flow-Through Share Subscription Agreement and pursuant to the Act will, at the effective date of such renunciation, be considered as CEE incurred by the investor and a corresponding amount will be added to the investor's cumulative CEE pool. Subject to certain restrictions imposed by the Act, it is possible for the Issuer to renounce, with an effective date of December 31 of a particular year, CEE (to the extent that it was an expense described in

paragraph 66.1(6)(a)(iii) of the Act, i.e. a "grass roots" exploration expense as opposed to a preproduction expense) incurred by it under a flow-through share arrangement within the first 60 days of the year following the particular year.

Under the Act, the Issuer will be precluded from renouncing any amount of CEE which constitutes Canadian Exploration and Development Overhead Expenses ("CEDOE") as prescribed under the Regulations to the Act. In addition, the amount of CEE that the Issuer can renounce must be net of the amount of any assistance the Issuer receives, is entitled to receive or may reasonable be expected to receive, at any time, in respect of the exploration activities to which the CEE relates.

The cumulative CEE pool of an investor will be reduced by the amount of any assistance which he becomes entitled to receive in respect of CEE that has been incurred. An investor will be entitled to deduct, in computing his income from all sources for a taxation year, any amount that he may claim, not exceeding 100% of the balance of his cumulative CEE pool at the end of that taxation year. Deductions claimed by an investor will reduce his cumulative CEE pool by a corresponding amount. To the extent that an investor does not deduct the balance of his cumulative CEE pool at the end of a taxation year, the balance will be carried forward indefinitely and deductions may be made therefrom by the investor in subsequent taxation years in accordance with the provisions of the Act.

In the event that the balance of an investor's cumulative CEE pool is negative at the end of a taxation year, which may occur should any person receive or become entitled to receive assistance payments in the taxation year which relate to CEE incurred in a prior year or through unrelated adjustments to his CEE, the negative amount must be included in the investor's income for that taxation year and the balance of his cumulative CEE will thereupon become nil.

Adjusted Cost Base of Common Shares

Each Flow-Through Share issued to an investor under the Flow-Through Share Subscription Agreement will initially be deemed to have a cost to that investor of nil.

Any non-flow-through shares acquired pursuant to this Offering will initially have a cost to that investor of the price that such share is acquired or offered at hereunder as determined by the Issuer and the Agent in accordance with the rules and policies of the Exchange.

The adjusted cost base of each share of the Issuer owned by an investor at any particular time, including Flow-Through Shares and shares of the same class, will be the average of the adjusted cost base to him of all shares of the Issuer owned by him at that time.

Disposition of Shares

The characterization of the Flow-Through Shares issued under this Offering as capital property or as inventory to any particular investor will be determined according to the rules ordinarily applicable to the characterization of shares of a corporation.

Generally, the disposition of a share held as capital property will result in a taxable capital gain (or an allowable capital loss) equal to three-quarters of that amount by which the proceeds of disposition exceed (or are exceeded by) the adjusted cost base of the investor for that share and his costs of disposition. The disposition of a share which is not held as capital property will result in an income gain (or loss), the full amount of which is to be included in computing an investor's income.

Under the Act, individuals resident in Canada, other than trusts, are entitled to a special deduction when computing federal income in respect of capital gains realized up to a lifetime limit of \$100,000 of capital gains.

All or part of the capital gain that may be realized by an investor from the disposition of shares held as capital property may not be subject to tax under the Act if the investor has not, by reason of other dispositions, exceeded his cumulative capital gains exemption limit and if he is also not subject to tax under the alternative minimum tax provisions of the Act. The alternative minimum tax provisions are discussed below. An investor's entitlement to claim a special deduction in respect of a specific capital gain and hence his ability to shelter taxable capital gains may be affected by his cumulative capital gains exemption limit, which takes into account the amount of special deductions previously claimed, the amount of any net capital losses and any allowable business investment losses deducted in a taxation year ending after 1984. In addition, the investor's entitlement to claim such a deduction will be restricted to the extent that certain defined cumulative investment expenses after 1987 exceed defined cumulative investment income after 1987. An investor's investment expenses for the year will include, among other things, the following items to the extent that they have been deducted in computing his income:

- (a) interest expense incurred to acquire income producing property; and
- (b) 50% of resource expenses, including CEE, attributed to the investor under the Flow-Through Share Subscription Agreement.

Any balance in an investor's cumulative CEE account at the time he disposes of a share will remain with the Investor and will not be transferred to the purchaser of the share.

THIS IS SCHEDULE "A" TO THE PROSPECTUS OF CANADIAN IMPERIAL MINES INC. DATED THE 4TH DAY OF NOVEMBER, 1991.

THIS AGREEMENT IS TO BE EXECUTED ONLY BY INVESTORS WISHING TO PARTICIPATE IN THE FLOW-THROUGH OFFERING OF 200,000 FLOW-THROUGH COMMON SHARES PURSUANT TO THE PROSPECTUS OF CANADIAN IMPERIAL MINES INC. DATED NOVEMBER 4, 1991.

FLOW-THROUGH SHARE SUBSCRIPTION AGREEMENT

THIS FLOW-THROUGH SHARE SUBSCRIPTION AGREEMENT MUST BE DULY EXECUTED AND RETURNED BY THE INVESTOR, OR HIS DULY APPOINTED ATTORNEY, TO THE ISSUER, THE AGENT OR A SELLING PARTICIPANT WITHIN 28 DAYS AFTER THE OFFERING DAY AS DEFINED IN THE PROSPECTUS, OR THE INVESTOR WILL NOT BE ENTITLED TO RECEIVE ANY "FLOW-THROUGH" TAX TREATMENT FOR HIS SUBSCRIPTION.

THIS AGREEMENT is made and dated for reference the _____ day of _____, 199_.

BETWEEN:

CANADIAN IMPERIAL MINES INC., a company incorporated pursuant to the laws of the Province of British Columbia and having a business office at No. 120, 13751 Mayfield Place, Richmond, B.C., V6V 2G9

(hereinafter called the "Issuer")

OF THE FIRST PART

AND:

EACH OF THE PERSONS LISTED IN APPENDIX I HERETO WHO HAVE SUBSCRIBED FOR FLOW-THROUGH COMMON SHARES IN THE CAPITAL OF THE ISSUER PURSUANT TO THE PROSPECTUS OF THE ISSUER DATED NOVEMBER 4, 1991

(each of such persons being referred to herein as an "Investor" and collectively referred to as the "Investors")

OF THE SECOND PART

W H E R E A S:

A. The Issuer has certain interests in mining resource property situated in Canada (the "Property");

B. The principal business of the Issuer is mining or exploring for minerals;

C. The Issuer intends to carry out one or more exploration programs on the Property that may include geophysical surveying, seismic testing, underground and surface diamond drilling, metallurgical studies and underground drifting to determine the existence, location, extent and quality of the mineral resources located thereon (the "Exploration Program");

D. The expenses incurred in performing the Exploration Program will constitute Canadian Exploration Expense within the meaning of subparagraph 66.1(6)(a)(iii) of the Income Tax Act of Canada (the "ITA"), other than expenses which constitute "Canadian Exploration and Development Overhead Expenses" ("CEDOE") as prescribed for the purposes of paragraph 66.12(6)(b) of the ITA (such expenditures are hereinafter referred to as "CEE");

E. Pursuant to a Prospectus of the Issuer dated the 4th day of November, 1991 (the "Prospectus"), the Investor has agreed to subscribe for flow-through common shares (the "Flow-Through Common Shares") at a price of \$0.40 (the "Offering Price") per Flow-Through Common Shares and the Issuer has agreed to issue the Flow-Through Common Shares to the Investor;

F. The Flow-Through Common Shares will constitute "flow-through" shares for the purposes of the ITA, all as more particularly described in the Prospectus;

G. The Issuer has agreed to apply the subscription funds allocable to the Flow-Through Common Shares to be provided by the Investor towards carrying out the Exploration Program and to renounce the expenditures associated therewith to the Investor in accordance with the terms of this Agreement;

NOW THEREFORE THIS AGREEMENT WITNESSETH that in consideration of the foregoing and of the mutual covenants and agreements herein contained, the parties agree as follows:

Subscription

1. Each Investor hereby subscribes, at the Offering Price (as defined in the Prospectus), for that number of Flow-Through Common Shares as is indicated beside his name in Appendix I hereto and concurrently with the execution of this Agreement agrees to pay to the Issuer the proceeds of such subscription (hereinafter referred to as the "Subscriber's Proceeds" and collectively as the "Subscribers' Proceeds"), as indicated beside each Investor's name in Appendix I hereto.

Deposit of Subscribers' Proceeds
and Issuance of the Common Shares

3. The Issuer will:
- (a) following receipt of the Subscribers' Proceeds, deposit into a separate bank account (the "Exploration Fund") established by the Issuer for the purpose of financing the Exploration Program; and
 - (b) upon receipt of all necessary securities regulatory approvals, issue the Flow-Through Common Shares to the Investor and deliver a share certificate representing the Flow-Through Common Shares to the Investor.

Additional Investors to Participate
in Exploration Program

4. The Investor acknowledges that the Issuer has entered into and will be entering into agreements similar to this Agreement with other persons. Such agreements shall be made and dated for reference the same date as this Agreement. The funds paid to the Issuer pursuant to this Agreement shall also be deposited in the Exploration Fund. Should the Issuer intend, however, to issue additional "flow-through" common shares pursuant to a private placement or pursuant to a different public offering, any subscription funds received from such private placement or public offering shall be deposited into a bank account separate from the Exploration Fund and shall not be commingled with the funds comprising the Exploration Fund, it being the intention of the parties that a separate subscribers' exploration account be established for each such private placement or public offering. The Issuer shall expend such subscriber's exploration accounts in chronological order with reference to:

- (a) the reference date of the flow-through common share funding and renunciation agreements entered into for such private placement; and
- (b) the date of closing such public offering,

such that the subscription funds from the oldest "flow-through" financing shall always be spent first and renunciation made in respect of such expenditures before any renunciations are made in respect of any exploration expenditures that are financed from subsequent "flow-through" financings.

Application of Exploration Fund

5. Subject to the Issuer's right to revise the Exploration Program as provided for in this Agreement, the Issuer shall apply all funds deposited in the Exploration Fund exclusively for the

purpose of performing the Exploration Program and the Issuer will only apply such funds to incur expenses ("Exploration Expenditures") which qualify as CEE .

Accrued Interest on Exploration Fund

6. The Investor acknowledges that any interest accruing on funds in the Exploration Fund shall accrue to the sole benefit of the Issuer and may be applied by the Issuer for general corporate purposes.

Schedule for Incurring Exploration Expenditures

7. The Issuer shall use its best efforts to expend the Exploration Fund between the date of this Agreement and February 29, 1992.

In the event that any balance remains in the Exploration Fund at that date, such balance will be expended by the Issuer to fund Exploration Expenditures as soon as it is practical in the circumstances but, in any event, on or before February 28, 1993.

Exploration Benefits

8. The Investor shall not acquire any rights in the properties of the Issuer, including property acquired with the Exploration Fund.

Filing of Agreement

9. The Issuer shall file with Revenue Canada, Taxation together with a copy of this Agreement, the prescribed form referred to in subsection 66(12.68) of the ITA on or before the last day of the month following the earlier of:

- (a) the month in which this Agreement is entered into; and
- (b) the month in which any "selling instrument" as that term is defined in paragraph 66(15)(h.1) of the ITA, relating to this Agreement is first delivered to an Investor or other potential investors of the Issuer.

Issuer to Renounce CEE

10. The Issuer will renounce by March 31, 1992 in favour of each Investor in accordance with the provisions of subsections 66(12.6) and 66(12.66) of the ITA, with an effective date of December 31, 1991, the amount of CEE incurred by the Issuer on or before March 1, 1992 from the Subscriber's Proceeds for that Investor as shown in Appendix I hereto. If CEE is incurred after March 1, 1992, the Issuer will renounce such CEE to the

Investor as soon as practicable, but in any event no later than March 1, 1993 with an effective date no later than December 31, 1992. The Issuer shall have no right to claim any deduction for CEE or depletion of any sort in respect of the Exploration Expenditures. The Issuer will file with Revenue Canada in respect of each renunciation before the last day of the month following the date of such renunciation, an information return in the form prescribed in subsection 66(12.7) of the ITA.

Allocation of Exploration Expenditures

11. For the purposes of determining the extent to which the Subscribers' Proceeds have been the subject of renunciation, the total amount expended from the Exploration Fund on Exploration Expenditures shall be allocated among all Investors who have contributed to the Exploration Fund on a basis pro-rata to the relative amounts of their respective Subscriber's Proceeds.

Issuer to Account to Investor

12. The Issuer will maintain proper accounting books and records relating to the Exploration Expenditures. On the completion of the Exploration Program, the Issuer shall account to the Investor in respect of the application of the Exploration Fund.

No Dissemination of Confidential Information

13. The Issuer shall be entitled to hold confidential all exploration information relating to any program on which any portion of the Exploration Fund is expended pursuant to this Agreement and it shall not be obligated to make such information available to any Investor except in the manner and at such time as it makes any such information available to its shareholders or to the public pursuant to the rules and policies of any stock exchange or laws, regulations or policies of any province.

Execution of Additional Documents

14. The parties hereto each covenant and agree to execute and deliver such further agreements, documents and writings and provide such further assurances as may be required by the parties to give effect to this Agreement and, without limiting the generality of the foregoing, to do all acts and things, execute and deliver all documents, agreements and writings and provide such assurances, undertakings, information, pooling agreements and investment letters as may be required from time to time by all regulatory or governmental bodies or stock exchanges having jurisdiction over the Issuer's affairs or as may be required from time to time under the ITA and the Regulations thereunder.

Force Majeure

15. Subject to paragraph 7, if the Issuer is prevented or delayed from performing any of its obligations hereunder or from incurring Exploration Expenditures or in carrying out any programs contemplated hereby by reason of any act of God, strike, labour dispute, lockout, threat of imminent strike, fire, flood, interruption or delay in transportation, war, insurrection or mob violence, requirements or regulation of government or statute, unavoidable casualties, shortage of labour, equipment or materials, plant breakdown or failure of operating equipment, or any disabling cause without regard to the foregoing enumeration beyond its control, or which cannot be overcome by the means normally employed in performance, then and in every such event, any such prevention or delay will not constitute a breach of this Agreement but subject to the requirements of the ITA concerning renunciation of CEE to the Investor of "flow-through shares", performance of any of the said obligations or requirements to incur Exploration Expenditures on behalf of the Investor or to perform any such program shall be suspended during such period of disability and the period of all such delays resulting from any such causes will be excluded in computing the time within which anything required to be permitted by the Issuer is to be done hereunder, it being understood that the time within which anything is to be done, or made pursuant thereto, shall be extended by the total period of all such delays.

Governing Laws

16. This Agreement is deemed to have been made in British Columbia and will be governed by and construed exclusively in accordance with the laws of British Columbia.

Time of the Essence

17. Time is of the essence of this Agreement.

Interpretation

18. Whenever the singular or neuter are used throughout this Agreement, the same shall be construed as meaning the plural or feminine or masculine or a body corporate where the context of the parties so require.

Entire Agreement

19. This Agreement supercedes all prior negotiations between the parties with respect to the matters herein referred to and contains the entire agreement between the parties hereto and may be modified only by an instrument in writing signed by the party against whom modification is asserted.

Enurement

20. This Agreement shall enure to the benefit of and be binding upon the parties hereto and each of their heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF the parties hereto have executed this Agreement as of the day and year first above written.

THE COMMON SEAL of CANADIAN)
IMPERIAL MINES INC. was hereto)
affixed in the presence of:)
)
)
_____)
)
)
_____)
)
)
)

c/s

SIGNED, SEALED and DELIVERED)
by _____ or)
by _____, as)
Attorney for each of the)
Investors listed in Appendix I)
attached hereto, in the)
presence of:)
)
)
_____)
Signature)
)
)
_____)
Address)
)
)
_____)
)
)
_____)
Occupation)

APPENDIX I

Name, Address and
Social Insurance No.
of Investor

No. of Flow-Through
Common Shares Subscribed

Subscriber's
Proceeds

THIS IS SCHEDULE "B" TO THE PROSPECTUS OF CANADIAN IMPERIAL MINES INC. DATED THE 4TH DAY OF NOVEMBER, 1991.

THIS POWER OF ATTORNEY FORM IS TO BE EXECUTED ONLY BY INVESTORS WISHING TO PARTICIPATE IN THE OFFERING OF 200,000 FLOW-THROUGH COMMON SHARES PURSUANT TO THE PROSPECTUS OF CANADIAN IMPERIAL MINES INC. DATED NOVEMBER 4, 1991.

POWER OF ATTORNEY FORM

THIS POWER OF ATTORNEY MUST BE DULY EXECUTED AND RETURNED BY THE UNDERSIGNED TO THE AGENT OR SELLING PARTICIPANT WITHIN 28 DAYS AFTER THE OFFERING DAY, OR THE UNDERSIGNED WILL NOT BE ENTITLED TO RECEIVE ANY "FLOW-THROUGH" TAX TREATMENT FOR HIS SUBSCRIPTION.

TO: CANADIAN IMPERIAL MINES INC. (the "Issuer")

No. 120, 13751 Mayfield Place,
(Suite No., Street)

Richmond, British Columbia, V6V 2G9
(City, Province and Postal Code)

RE: Flow-Through Share Subscription Agreement and Participation in the Offering of Flow-Through Common Shares pursuant to the Issuer's Prospectus dated the 4th day of November, 1991. (the "Prospectus")

The undersigned investor hereby irrevocably nominates, constitutes and appoints Tom K.T. Cheng, or failing him, any other director or senior officer of the Issuer (the "Attorney"), with full power of substitution, as his agent and true and lawful attorney to act on behalf of the undersigned with full power and authority in his name, place and stead to execute, acknowledge, date, deliver, file and record as and where the Attorney considers it appropriate, the Flow-Through Share Subscription Agreement in the form which accompanies the Prospectus as Schedule "A" thereto, and any amendment, change or modification of that agreement.

The undersigned agrees to be bound by any representation and action of the Attorney made or taken in conformity with this Power of Attorney. This Power of Attorney shall be irrevocable and shall bind the undersigned, his heirs, executors, administrators, successors and assigns, as the case may be, notwithstanding the death, incapacity or bankruptcy of the undersigned.

The Attorney shall have the power to execute the Flow-Through Share Subscription Agreement in the name of the undersigned pursuant to this Power of Attorney by affixing the Attorney's signature thereto with the indication that the Attorney is acting on behalf of the undersigned.

DATED this day of , 199_.

IF THE UNDERSIGNED IS AN INDIVIDUAL:

SIGNED, SEALED and DELIVERED by the Undersigned in the presence of:)	_____
)	Signature of Undersigned
_____)	_____
Signature of Witness)	Name of Undersigned
_____)	_____
Name of Witness)	Address
_____)	_____
Address of Witness)	
_____)	
Occupation of Witness)	

IF THE UNDERSIGNED IS A CORPORATION:

THE COMMON SEAL of Undersigned was hereto affixed in the presence of:)	
_____)	
Authorized Signatory)	
_____)	
Name of Signatory (Print))	
_____)	
Position)	C/S
_____)	
Name of Corporation)	
_____)	
Address of Corporation)	
_____)	
City)	
Province)	
_____)	
Postal Code)	

CANADIAN IMPERIAL MINES INC.
FINANCIAL STATEMENTS
JUNE 30, 1991

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	Auditors' Report
Exhibit A	Balance Sheet
Exhibit B	Statement of Loss and Deficit
Exhibit C	Statement of Changes in Financial Position
	Notes to Financial Statements
Schedule 1	Schedule of Deferred Exploration Costs

AUDITORS' REPORT

TO THE SHAREHOLDERS OF CANADIAN IMPERIAL MINES INC.

We have audited the balance sheets of **Canadian Imperial Mines Inc.** as at June 30, 1991, 1990, 1989 and 1988 and the statements of loss and deficit and changes in financial position for the periods then ended. These financial statements are the responsibility of the company's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In our opinion, these financial statements present fairly, in all material respects, the financial position of the company as at June 30, 1991, 1990, 1989 and 1988 and the results of its operations and the changes in its financial position for the periods then ended in accordance with generally accepted accounting principles. As required by the Company Act of British Columbia, we report that, in our opinion, these principles have been consistently applied.

Vancouver, Canada
July 3, 1991


Chartered Accountants

CANADIAN IMPERIAL MINES INC.

Balance Sheet

Exhibit A

June 30,

Assets

	<u>1991</u>	<u>1990</u>	<u>1989</u>	<u>1988</u>
Current				
Cash and term deposit	\$ 18,033	\$ 18,661	\$ 32,885	\$121,525
Accounts receivable	<u>2,064</u>	<u>-</u>	<u>-</u>	<u>3,895</u>
	<u>20,097</u>	<u>18,661</u>	<u>32,885</u>	<u>125,420</u>
Resource Properties (Note 3)	<u>131,369</u>	<u>99,843</u>	<u>116,560</u>	<u>40,000</u>
Fixed, at cost				
Equipment	2,120	2,120	2,120	-
Furniture	<u>4,781</u>	<u>4,781</u>	<u>2,519</u>	<u>-</u>
	6,901	6,901	4,639	-
Accumulated depreciation	<u>3,078</u>	<u>2,122</u>	<u>928</u>	<u>-</u>
	<u>3,823</u>	<u>4,779</u>	<u>3,711</u>	<u>-</u>
	<u>\$155,289</u>	<u>\$123,283</u>	<u>\$153,156</u>	<u>\$165,420</u>

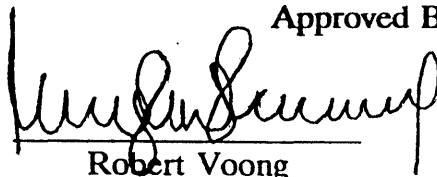
Liabilities

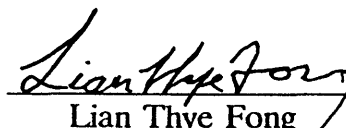
Current				
Accounts payable and accrued liabilities	<u>\$ 82,165</u>	<u>\$ 60,481</u>	<u>\$ 3,447</u>	<u>\$ 2,000</u>

Shareholders' Equity

Share Capital (Note 4)	315,000	244,000	244,000	173,500
Deficit - Exhibit B	<u>(241,876)</u>	<u>(181,198)</u>	<u>(94,291)</u>	<u>(10,080)</u>
	<u>73,124</u>	<u>62,802</u>	<u>149,709</u>	<u>163,420</u>
	<u>\$155,289</u>	<u>\$123,283</u>	<u>\$153,156</u>	<u>\$165,420</u>

Approved By The Directors


Robert Voong


Lian Thye Fong

The accompanying notes form an integral part of these financial statements.

CANADIAN IMPERIAL MINES INC.

Statement of Loss and Deficit

Exhibit B

	Year Ended June 30, <u>1991</u>	Year Ended June 30, <u>1990</u>	Year Ended June 30, <u>1989</u>	Sept. 18, 1987 to June 30, <u>1988</u>
Administrative Expenses				
Accounting and audit	\$ 4,165	\$ 5,439	\$ 2,686	\$ 2,000
Automobile	12,310	8,012	-	-
Bank charges and interest	125	66	101	-
Depreciation	956	1,195	928	-
Legal	15,969	8,080	21,124	1,105
Listing and filing fees	3,985	180	6,026	-
Management fees	21,600	21,600	21,600	3,600
Office	62	447	4,822	45
Printing	-	-	1,425	-
Rent	-	5,000	12,000	2,000
Secretarial	-	3,200	9,600	1,600
Telephone	-	29	1,267	-
Transfer agent	-	-	500	-
Travel and promotion	2,641	4,189	7,379	-
Interest income	<u>(1,135)</u>	<u>(2,508)</u>	<u>(5,247)</u>	<u>(270)</u>
	60,678	54,929	84,211	10,080
Loss On Abandonment Of Plat/Census Properties	<u>-</u>	<u>31,978</u>	<u>-</u>	<u>-</u>
Loss For The Period	60,678	86,907	84,211	10,080
Deficit, beginning of period	<u>181,198</u>	<u>94,291</u>	<u>10,080</u>	<u>-</u>
Deficit, end of period - Exhibit A	<u>\$241,876</u>	<u>\$181,198</u>	<u>\$94,291</u>	<u>\$10,080</u>
Loss Per Share	<u>\$0.03</u>	<u>\$0.05</u>	<u>\$0.01</u>	<u>\$0.01</u>

The accompanying notes form an integral part of these financial statements.

CANADIAN IMPERIAL MINES INC.

Statement of Changes in Financial Position

Exhibit C

	Year Ended June 30, <u>1991</u>	Year Ended June 30, <u>1990</u>	Year Ended June 30, <u>1989</u>	Sept. 18, 1987 to June 30, <u>1988</u>
Cash Provided By (Used For) Operating Activities				
Operations				
Loss for the period - Exhibit B	\$(60,678)	\$(86,907)	\$(84,211)	\$(10,080)
Items not involving cash:				
- depreciation	956	1,195	928	-
- loss on abandonment of resource property	<u>-</u>	<u>31,978</u>	<u>-</u>	<u>-</u>
	(59,722)	(53,734)	(83,283)	(10,080)
Cash provided by non-cash working capital	<u>19,620</u>	<u>57,034</u>	<u>5,342</u>	<u>(1,895)</u>
	<u>(40,102)</u>	<u>3,300</u>	<u>(77,941)</u>	<u>(11,975)</u>
Cash Provided By Financing Activities				
Proceeds from share capital	<u>71,000</u>	<u>-</u>	<u>70,500</u>	<u>173,500</u>
Cash Provided By (Used For) Investing Activities				
Acquisition and exploration of resource properties	(31,526)	(15,262)	(76,560)	(40,000)
Acquisition of fixed assets	<u>-</u>	<u>(2,262)</u>	<u>(4,639)</u>	<u>-</u>
	<u>(31,526)</u>	<u>(17,524)</u>	<u>(81,199)</u>	<u>(40,000)</u>
Increase (Decrease) In Cash Position	(628)	(14,224)	(88,640)	121,525
Cash Position, beginning of period	<u>18,661</u>	<u>32,885</u>	<u>121,525</u>	<u>-</u>
Cash Position, end of period	<u>\$ 18,033</u>	<u>\$ 18,661</u>	<u>\$ 32,885</u>	<u>\$121,525</u>

The accompanying notes form an integral part of these financial statements.

CANADIAN IMPERIAL MINES INC.

Notes to Financial Statements

June 30, 1991

Note 1: Nature of Operations

These financial statements have been prepared on a going concern basis which assumes that the Company will be able to realize assets and discharge liabilities in the normal course of business for the foreseeable future. As at June 30, 1991, the Company has a working capital deficiency of \$62,068. The continued operations of the Company and the recoverability of the amounts shown for resource properties and related deferred costs are dependent upon the existence of economically recoverable reserves, the ability of the Company to obtain necessary financing to complete the development, and upon future profitable production (see Note 7).

Note 2: Significant Accounting Policies

a) Resource Properties

The Company follows the policy of deferring all acquisition, exploration and development costs relating to the resource properties. These costs are either amortized against revenue from future production or written off if the property is abandoned or sold. At the present time, management has determined each project to be a cost centre. The amounts shown under resource properties represent costs incurred to date and are not intended to reflect present or future values.

Depletion of costs capitalized on projects put into commercial production will be recorded using the unit-of-production method when estimated proven reserves are determined.

The Company does not accrue the estimated costs of maintaining its mineral properties in good standing.

b) Option Agreements

From time to time, the Company acquires or disposes of properties pursuant to the terms of option agreements. Due to the fact that options are exercisable entirely at the discretion of the optionee, the amounts payable or receivable are not recorded. Option payments are recorded as resource property costs or recoveries when the payments are made or received.

CANADIAN IMPERIAL MINES INC.

Notes to Financial Statements

June 30, 1991

Note 2: Significant Accounting Policies

c) Fixed Assets

Depreciation is provided on a declining-balance basis as follows:

Office furniture and equipment	20% per annum
--------------------------------	---------------

Note 3: Resource Properties

a) The Company has incurred the following costs on its resource properties:

	Property Acquisition Costs	Deferred Exploration Costs (Schedule 1)	Abandoned	Balance 1991
Middle Vein Properties	\$20,000	\$111,369	\$ -	\$131,369
Plat/Census Properties	<u>10,000</u>	<u>21,978</u>	<u>(31,978)</u>	<u>-</u>
	<u>\$30,000</u>	<u>\$133,347</u>	<u>\$(31,978)</u>	<u>\$131,369</u>

b) Middle Vein Properties - An option to acquire a 100% interest in seven claims located in the Victoria Mining Division, British Columbia, Canada.

The option agreement requires the Company to issue a total of 100,000 shares and to pay \$90,000 to the optionor as follows:

	<u>Amount Paid</u>
i) \$10,000 on or before December 31, 1988	\$10,000
ii) \$10,000 on or before February 15, 1989	\$10,000
iii) \$25,000 and 25,000 common shares within 10 days following the approval date of the Company's prospectus	

CANADIAN IMPERIAL MINES INC.

Notes to Financial Statements

June 30, 1991

Note 3: Resource Properties (continued)

- iv) \$10,000 and 25,000 free trading common shares before January 1, 1992, subject to the completion of the first phase of a program of exploration and development of the Properties and the recommendation of a duly qualified engineer that a further work program should be undertaken.
- v) \$10,000 and 25,000 free trading common shares on or before January 1, 1993, subject to the completion of the second phase of a program of exploration and development of the Properties and the recommendation of a duly qualified engineer that a further work program should be undertaken.
- vi) \$25,000 and 25,000 free trading common shares on or before September 1, 1993, subject to the completion of a subsequent phase of a program of exploration and development of the Properties and the recommendation of a duly qualified engineer that a further work program should be undertaken.

Note 4: Share Capital

- a) Authorized: 25,000,000 common shares with no par value.
- b) Subscribed:

	<u>Shares</u>	<u>Amount</u>
At \$0.01 per share	750,000	\$ 7,500
At \$0.25 per share	635,000	158,750
At \$0.35 per share	15,000	5,250
At \$0.40 per share	<u>5,000</u>	<u>2,000</u>
Balance, June 30, 1988	1,405,000	173,500
At \$0.25 per share	<u>282,000</u>	<u>70,500</u>
Balance June 30, 1989 and June 30, 1990	1,687,000	244,000
At \$0.25 per share	160,000	40,000
At \$0.35 per share, "flow-through shares"	<u>88,570</u>	<u>31,000</u>
Balance, June 30, 1991	<u>1,935,570</u>	<u>\$315,000</u>

CANADIAN IMPERIAL MINES INC.

Notes to Financial Statements

June 30, 1991

Note 4: Share Capital (continued)

c) The 750,000 shares subscribed for at \$0.01 per share will be held in escrow; the release of the shares is subject to the direction of the regulatory authorities.

d) **Flow-through Share Funding**

Pursuant to flow-through share funding agreements with investors, the Company is committed to incur \$31,000 in Canadian Exploration Expenditures on its resource property. The shares are flow-through shares and as such the Company is required to renounce as income tax deduction of \$31,000 of exploration and development expenses.

Note 5: Remuneration of Directors and Senior Officers

Management fees were paid or accrued to a corporation owned by a director of the Company.

Note 6: Lease Commitment

The Company has commitments under operating lease for an automobile which call for future lease payments as follows:

1992	\$9,720
1993	\$2,431

Note 7: Subsequent Event

The Company has entered into an agency agreement to offer a total of 800,000 common shares to the public for estimated net proceeds after commission of \$296,000.

CANADIAN IMPERIAL MINES INC.

Schedule of Deferred Exploration Costs

Schedule 1

	Year Ended June 30, 1991	Year Ended June 30, 1990	Year Ended June 30, 1989	Sept. 18, 1987 to June 30, 1988
Accommodation and supplies	\$ 2,991	\$ -	\$ 4,860	\$ -
Assessment and assays	561	10,383	-	-
Project preparation and mobilization	2,804	-	6,245	-
Rentals and transportation	9,112	950	8,295	-
Report and database	3,455	3,487	2,000	30,000
Supervision and report	888	-	3,500	-
Survey	-	-	5,000	-
Wages and fees	<u>11,715</u>	<u>441</u>	<u>26,660</u>	<u>-</u>
Deferred Costs For The Period	31,526	15,261	56,560	30,000
Deferred Costs, beginning of period	<u>79,843</u>	<u>86,560</u>	<u>30,000</u>	<u>-</u>
	111,369	101,821	86,560	30,000
Deferred Costs, written off	<u>-</u>	<u>(21,978)</u>	<u>-</u>	<u>-</u>
Deferred Costs, end of period	<u>\$111,369</u>	<u>\$79,843</u>	<u>\$86,560</u>	<u>\$30,000</u>
Allocated As Follows:-				
Middle Vein Properties	\$111,369	\$79,843	\$76,000	\$30,000
Plat/Census Properties	<u>-</u>	<u>-</u>	<u>10,560</u>	<u>-</u>
	<u>\$111,369</u>	<u>\$79,843</u>	<u>\$86,560</u>	<u>\$30,000</u>

CANADIAN IMPERIAL MINES INC.

FINANCIAL STATEMENTS

SEPTEMBER 30, 1991

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INDEX

	Review Engagement Report
Exhibit A	Balance Sheet
Exhibit B	Statement of Loss and Deficit
Exhibit C	Statement of Changes in Financial Position
	Notes to Financial Statements

REVIEW ENGAGEMENT REPORT

**TO THE SHAREHOLDERS OF
CANADIAN IMPERIAL MINES INC.**

We have reviewed the balance sheet of **Canadian Imperial Mines Inc.** as at September 30, 1991 and the statements of loss and deficit and changes in financial position for the period then ended. Our review was made in accordance with generally accepted standards for review engagements and accordingly consisted primarily of enquiry, analytical procedures and discussion related to information supplied to us by the company.

A review does not constitute an audit and consequently we do not express an audit opinion on these financial statements.

Based on our review, nothing has come to our attention that causes us to believe that these financial statements are not, in all material respects, in accordance with generally accepted accounting principles.

Vancouver, Canada
October 31, 1991


Chartered Accountants

CANADIAN IMPERIAL MINES INC.

Balance Sheet

Exhibit A

September 30, 1991

(Unaudited)

Assets

Current

Cash and term deposit	\$ 11,581
Accounts receivable	<u>2,094</u>

13,675

Resource Properties (Note 3)

131,369

Office Furniture and Equipment, less
accumulated depreciation of \$3,268

3,633

\$ 148,677

Liabilities

Current

Accounts payable and accrued liabilities	\$ 93,378
Advances from a director	<u>7,000</u>

100,378

Shareholders' Equity

Share Capital (Note 4)

315,000

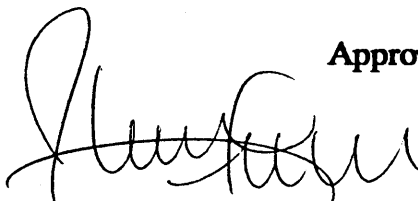
Deficit - Exhibit B

(266,701)

48,299

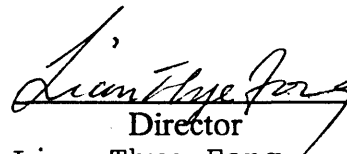
\$ 148,677

Approved By The Directors



Director

Tom K.T. Cheng



Director

Lian Thye Fong

The accompanying notes form an integral part of these financial statements.

CANADIAN IMPERIAL MINES INC.

Statement of Loss and Deficit

Exhibit B

Three Months Ended September 30, 1991

(Unaudited)

Administrative Expenses	
Accounting and audit	\$ 2,600
Automobile	2,430
Bank charges and interest	52
Depreciation	190
Legal	15,053
Listing and filing fees	3,300
Office	1,337
Interest income	<u>(137)</u>
Loss For The Period	24,825
Deficit, beginning of period	<u>241,876</u>
Deficit, end of period - Exhibit A	<u>\$ 266,701</u>
Loss Per Share	<u>\$0.01</u>

The accompanying notes form an integral part of these financial statements.

CANADIAN IMPERIAL MINES INC.
Statement of Changes in Financial Position
Three Months Ended September 30, 1991
(Unaudited)

Exhibit C

Cash Provided By (Used For) Operating Activities

Operations	
Loss for the period - Exhibit B	\$ (24,825)
Item not involving cash:	
- depreciation	<u>190</u>
	(24,635)
Cash provided by non-cash working capital	<u>18,183</u>
Decrease In Cash Position	(6,452)
Cash Position, beginning of period	<u>18,033</u>
Cash Position, end of period	<u>\$ 11,581</u>

The accompanying notes form an integral part of these financial statements.

CANADIAN IMPERIAL MINES INC.

Notes to Financial Statements

September 30, 1991

(Unaudited)

Note 1: Nature of Operations

These financial statements have been prepared on a going concern basis which assumes that the Company will be able to realize assets and discharge liabilities in the normal course of business for the foreseeable future. As at September 30, 1991, the Company has a working capital deficiency of \$86,703. The continued operations of the Company and the recoverability of the amounts shown for resource properties and related deferred costs are dependent upon the existence of economically recoverable reserves, the ability of the Company to obtain necessary financing to complete the development, and upon future profitable production (see Note 7).

Note 2: Significant Accounting Policies

a) Resource Properties

The Company follows the policy of deferring all acquisition, exploration and development costs relating to the resource properties. These costs are either amortized against revenue from future production or written off if the property is abandoned or sold. At the present time, management has determined each project to be a cost centre. The amounts shown under resource properties represent costs incurred to date and are not intended to reflect present or future values.

Depletion of costs capitalized on projects put into commercial production will be recorded using the unit-of-production method when estimated proven reserves are determined.

The Company does not accrue the estimated costs of maintaining its mineral properties in good standing.

b) Option Agreements

From time to time, the Company acquires or disposes of properties pursuant to the terms of option agreements. Due to the fact that options are exercisable entirely at the discretion of the optionee, the amounts payable or receivable are not recorded. Option payments are recorded as resource property costs or recoveries when the payments are made or received.

CANADIAN IMPERIAL MINES INC.

Notes to Financial Statements

September 30, 1991

(Unaudited)

Note 2: Significant Accounting Policies (continued)

c) Fixed Assets

Depreciation is provided on a declining-balance basis as follows:

Office furniture and equipment	20% per annum
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Note 3: Resource Properties

a) The Company has incurred the following costs on its resource properties:

	<u>Property Acquisition Costs</u>	<u>Deferred Exploration Costs</u>	<u>Total</u>
Middle Vein Properties	\$20,000	\$111,369	\$131,369

b) Middle Vein Properties - An option to acquire a 100% interest in seven claims located in the Victoria Mining Division, British Columbia, Canada.

The option agreement requires the Company to issue a total of 100,000 shares and to pay \$90,000 to the optionor as follows:

- i) \$10,000 on or before December 31, 1988, which was paid.
- ii) \$10,000 on or before February 15, 1989, which was paid.
- iii) \$25,000 and 25,000 common shares within 10 days following the approval date of the Company's prospectus.
- iv) \$10,000 and 25,000 free trading common shares before January 1, 1992, subject to the completion of the first phase of a program of exploration and development of the Properties and the recommendation of a duly qualified engineer that a further work program should be undertaken.
- v) \$10,000 and 25,000 free trading common shares on or before January 1, 1993, subject to the completion of the second phase of a program of exploration and development of the Properties and the recommendation of a duly qualified engineer that a further work program should be undertaken.

CANADIAN IMPERIAL MINES INC.

Notes to Financial Statements

September 30, 1991

(Unaudited)

Note 3: Resource Properties (continued)

- vi) \$25,000 and 25,000 free trading common shares on or before September 1, 1993, subject to the completion of a third phase of a program of exploration and development of the Properties and the recommendation of a duly qualified engineer that a further work program should be undertaken.

Note 4: Share Capital

- a) Authorized: 25,000,000 common shares with no par value.
- b) Subscribed: 1,935,570 shares.

There had been no change in the share capital during the period.

- c) The 750,000 shares subscribed for at \$0.01 per share will be held in escrow; the release of the shares is subject to the direction of the regulatory authorities.
- d) The Company has granted its directors stock options to purchase 270,000 shares at \$0.45 per share for a period of five years from the date of the receipt of the Company's prospectus.

Note 5: Remuneration of Directors and Senior Officers

During the period, there were no management fees paid or accrued to directors and senior officers of the Company.

Note 6: Lease Commitment

The Company has commitments under operating lease for an automobile which call for future lease payments as follows:

1992	\$9,720
1993	\$2,431

CANADIAN IMPERIAL MINES INC.

Notes to Financial Statements

September 30, 1991

(Unaudited)

Note 7: Subsequent Event

The Company has entered into an agency agreement to offer a total of 800,000 common shares to the public for estimated net proceeds after commission of \$296,000.

Note 8: Comparative Figures

Comparative figures for the corresponding period in 1990 are not available.

92 F/2
Latitude: 49° 06'N
Longitude: 124° 35'W

REVISED GEOLOGICAL REPORT

MIDDLE VEIN PROSPECT

in the

**Mount McQuillan Area
Victoria Mining Division, B.C.**

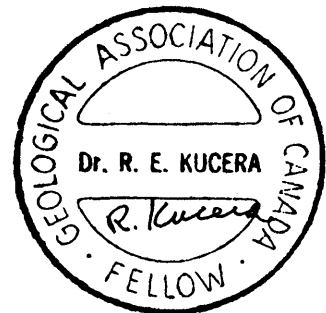
for

**CANADIAN IMPERIAL MINES INC.
#777 - 1177 West Hastings Street
Vancouver, B.C. V6E 2K3**

By

**Kucera & Associates Consultants
Richard E. Kucera, Ph.D.**

September 20, 1991



SUMMARY

Canadian Imperial Mines Inc. holds seven reverted Crown Grants (Middle Vein Prospect) in the Mt. McQuillan area, located 21 kilometres southeast of Port Alberni, Vancouver Island, B.C. (92F/2). Elevations range from 1200 to 1500 metres. Present access to the property is either by helicopter or by trail from China Creek or Nitinat River. The end of an old logging road lies 2.2 kilometres southeast of the property.

The Middle Vein Prospect is located on the Cowichan-Horn Lake Uplift, a geologically favourable area and contains past producers of the Mt. McQuillan-China Creek mining camps. The property is largely underlain by the lower part of the Sicker Group rocks, represented here by the Duck Lake Formation, composed of grey to greenish andesite, dacite tuffs and breccias. Gabbroic rocks (Island Intrusions) also occur locally.

Mineralization on the property consists of lenticular quartz-carbonate veins, up to 5 metres long and 20 cm wide, associated with a very strong and persistent NNE trending shear zone 2 to 3 metres wide that cuts light to dark brown weathered andesite. This mineralized zone has been referred to as the Middle Vein. The Middle Vein is exposed only in the Middle Vein workings for a distance of 5 metres. The veins and shear zone at this locality strike N 10 degrees to 18 degrees East and dip 78 degrees to 85 degrees East. Some of the veins are found associated with light-coloured feldspar-hornblende dykes that are as much as 2 metres wide. One 20 cm channel sample assayed 0.88 oz/ton Au.

Although the shear zone is largely obscured by overburden, it is also exposed for a distance of 350 metres on the northern portion of the property. There is no indication of the Middle Vein shear zone by VLF-EM survey on the Apex and Skyline claims nor on the War Lion and Conqueror claims.

Exploration by Canadian Imperial Mines Inc. in 1989 and 1991 included establishing grid lines, collecting chip and channel samples, geological mapping and geophysical surveys. The writer has taken no independent check samples but he directed sampling by employees of the vendor.

Individual quartz veins assay up 1.4 oz/ton Au across widths of up to 10 cm. Sampling by Sawyer Consultants (1980) reported values of up to 2.20 oz/ton Au and 2.09 oz/ton Ag.

The Middle Vein is judged to be a good target. A two stage exploration program is recommended. Stage One would consist of detailed geological mapping and sampling, aerial photo interpretation and trenching. Stage Two would consist mainly of diamond drilling.

APPENDICES

- Appendix A Rock Sample Descriptions (1989, 1991)
- Appendix B Analytical Results (1980, 1983, 1989, 1991)
- Appendix C Interpretation of the Geophysical Survey on the Apex Group,
Figure G-1, G-2, G-3
- Appendix D Geophysical Field Data Worksheets (1989, 1991)
- Appendix E Geophysical Equipment Specifications
- Appendix F Petrographic Analysis Reports (1989, 1991)

INTRODUCTION

This report was prepared at the request of Mr. Clive Ashworth, on behalf of Canadian Imperial Mines Inc. The purpose of this report is to describe the results of geological exploration and assess the potential of the Middle Vein Prospect (seven reverted Crown grants) held by Canadian Imperial Mines Inc. in the Mt. McQuillan area, southeast of Port Alberni, Vancouver Island.

The report discusses the results of mapping, sampling and geophysical surveys carried out by Ashworth Explorations Limited in 1989 and Hi-Tec Resource Management Ltd. in 1991. In addition, observations made in conjunction with a drilling program carried out on an adjacent property in the early 1980's have been useful in this report.

The primary target is a mineralized zone (Middle Vein) consisting of quartz-carbonate veins associated with a very strong and persistent NNE trending shear zone. Examination of existing data followed by the 1989 and 1991 work programs have demonstrated the presence of gold anomalies in rocks with values up to 1.4 oz/ton across widths of up to 10 cm.

Certain recommendations are made in this report to explore the Middle Vein on the surface as well as at depth. The writer judges the exploration merit of the property to be good.

SOURCE OF INFORMATION

The primary source of information of which this report is based on included geological data, maps, and assays contained in a report by Mr. Hugo Laanela, Consulting Geologist, Nanaimo, B.C. In his report of August 8, 1989, for Ashworth Explorations Ltd., he summarized the work done on the property during the late 1970's and early 1980's by Lode Resources Corp. Laanela also reports on some geophysics and prospecting carried out in the summer of 1989 by Ashworth Explorations Ltd.

In addition, the present writer has drawn upon other appropriate sources including Annual Reports by the Minister of Mines, GSC Papers, and unpublished geological and geophysical reports on adjoining properties. He also had numerous discussions with Mr. Fayz Yacoub, Project Geologist for Ashworth Explorations Ltd.

The writer examined the northern part of the Middle Vein Prospect on October 16, 1989 and mapped a portion of the geology in the vicinity of the Middle Vein on the Apex claim. He was also accompanied by Mr. Yacoub and supervised sampling of the Middle Vein workings.

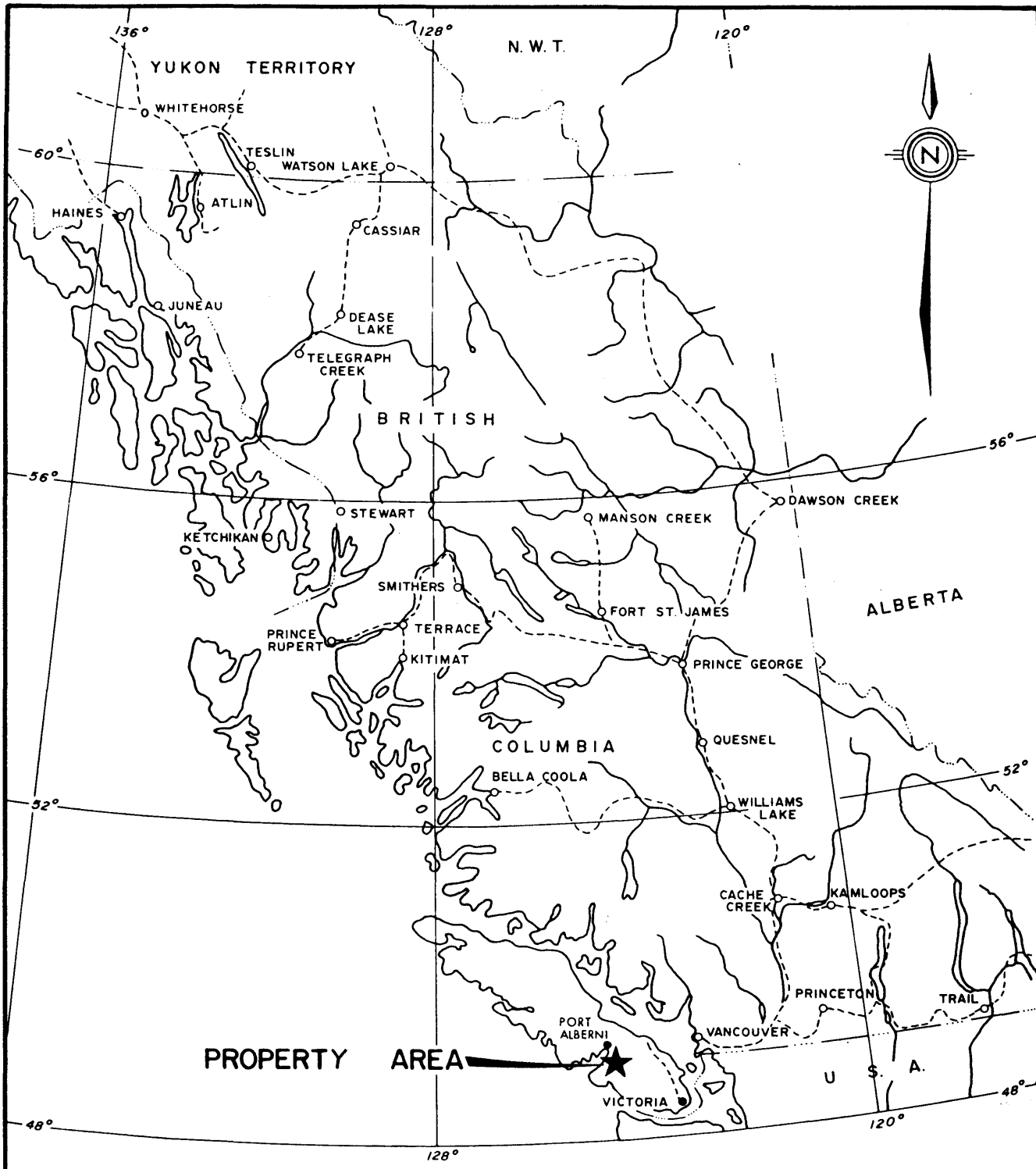
The results of geologic mapping, rock sampling and geophysical work by Hi-Tec Resource Management during June 1991 have been incorporated in this revised report.

LOCATION AND ACCESS

The Middle Vein Prospect is located 21 kilometres southeast of Port Alberni, Vancouver Island, B.C. (NTS map sheet 92 F/2). The geographical coordinates are 49 degrees 06'N, 124 degrees 35'W in the Victoria Mining Division.

The property is located along the east flank of McQuillan Ridge, the southern spur of Mt. McQuillan. The area lies west of the headwaters of the Middle Fork of Nitinat River.

Present access to the property is either by helicopter (12 minutes from Nanaimo) or by trail from China Creek or Nitinat River. However, a network of roads do exist in the area. The terminus of an old logging road located at the headwaters of the Middle Fork of Nitinat River lies 2.2 kilometres southeast of the workings at the Middle Vein.



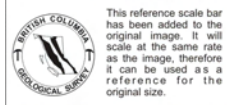
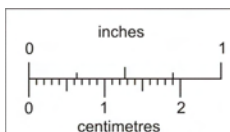
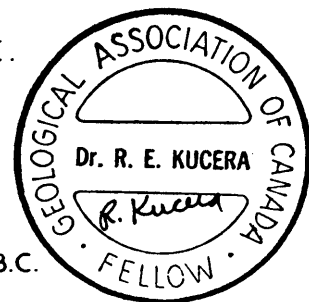
CANADIAN IMPERIAL MINES INC.

GENERAL LOCATION MAP

OF MIDDLE VEIN PROSPECT

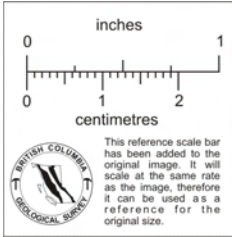
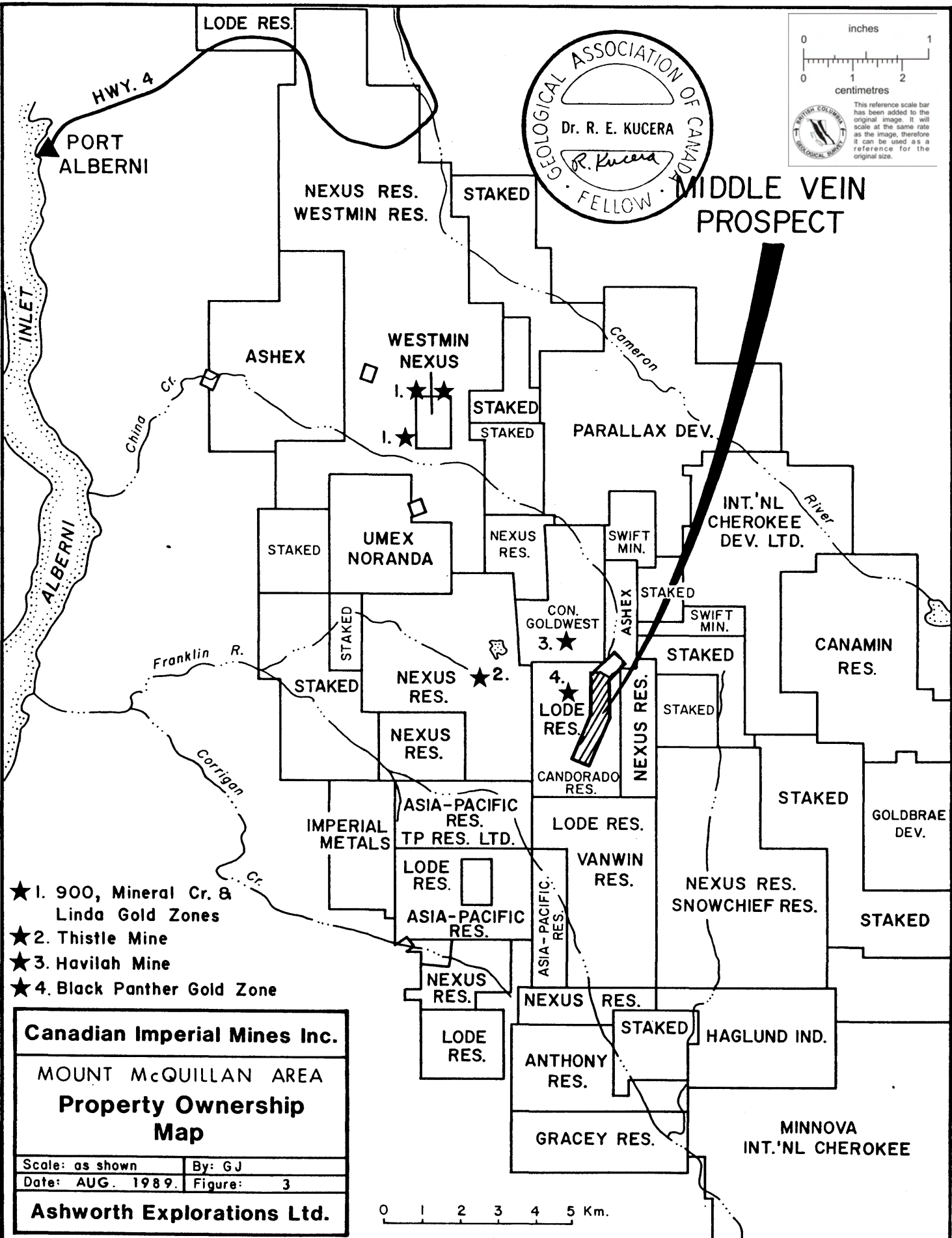
MOUNT McQUILLAN, VANCOUVER ISLAND, B.C.

SCALE : 1" = 125 MILES



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

FIGURE 1



MIDDLE VEIN PROSPECT

- ★ 1. 900, Mineral Cr. & Linda Gold Zones
- ★ 2. Thistle Mine
- ★ 3. Havilah Mine
- ★ 4. Black Panther Gold Zone

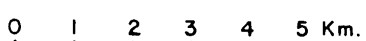
Canadian Imperial Mines Inc.

MOUNT McQUILLAN AREA

Property Ownership Map

Scale: as shown	By: GJ
Date: AUG. 1989.	Figure: 3

Ashworth Explorations Ltd.



The Crown grants and claims are shown on the B.C. Dept. of Energy, Mines and Petroleum Claim Map M92 F/2E as well as on Figures 2, 3, and 5 of this report. The locations of the 7 Crown Grant claims were not verified in the field as none of the claim posts or survey pins were inspected.

HISTORY OF EXPLORATION

The following summary of exploration and mining activity in the general area of the Middle Vein Prospect is condensed from a report by Mr. H. Laanela, 1989, Consulting Geologist.

Gold in the area was first discovered in the gravels of China Creek, just north of the Middle Vein property in 1862, followed by staking rushes and much mining activity. The Mt. McQuillan-China Creek area contains several modest past producers and numerous Au-Ag prospects, mostly vein-type, including the Black Panther mine, Havilah, Debbie Propsect, Golden Eagle, plus several less explored prospects in the area. These various mineral occurrences and the old mines are described by Stevenson (1945) in his report on the China Creek area.

During the 1960's Gunnex Ltd. carried out various regional and detailed surveys for minerals on the E and N Railway Land Grant on Vancouver Island. The results of these programs later led to the staking of favourable properties on Mt. McQuillan.

During the late 1970's and early 1980's Lode Resources Corp. had secured most of the favourable ground in the Mt. McQuillan area, including the High Grade Vein and Middle Vein area. Lode Resources sampled and drilled several of these properties including the High Grade Vein with encouraging results during 1980 and 1983. The High Grade Vein is located just west and outside of the Middle Vein Prospect, dipping steeply to the west of the property boundary. (See Figure 5).

REGIONAL GEOLOGY













The Middle Vein Claim Group is located on the Cowichan-Horn Lake Uplift, a geologically and economically favourable area on Vancouver Island. This uplift is some 125 kilometres long and 15-22 kilometres wide and it contains the past producers of the Mt. McQuillan - China Creek mining camps. The area is underlain by the Sicker Group volcanics and associated sedimentary rocks. (Figure 4).

Stratigraphy

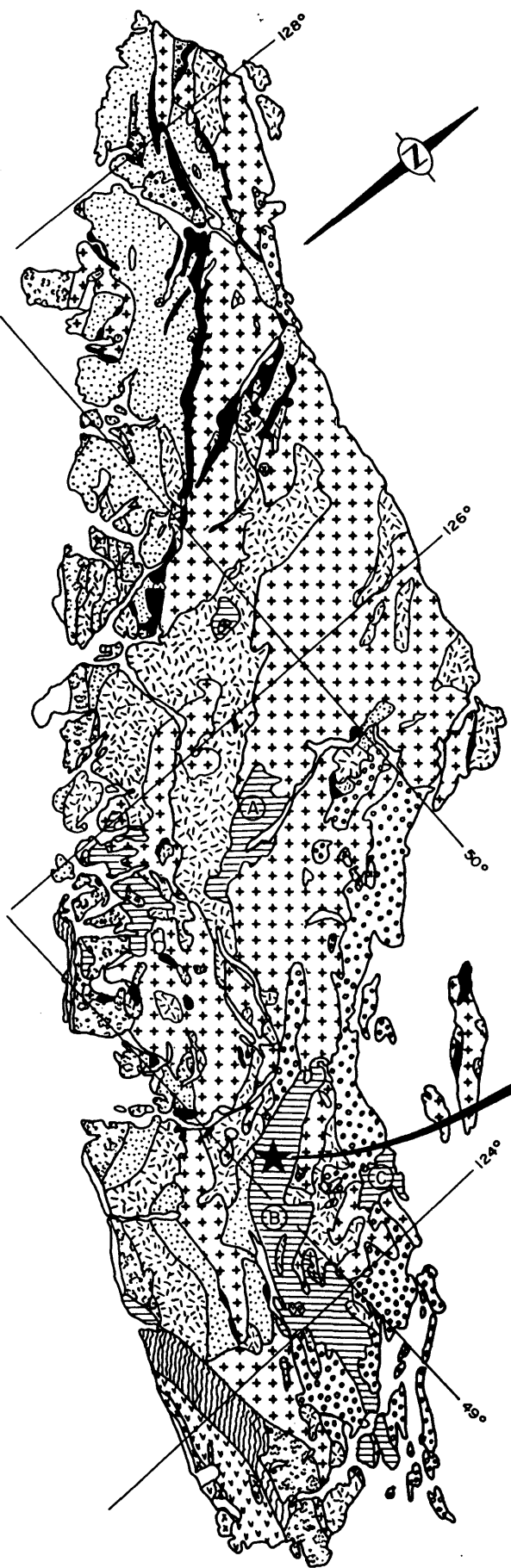
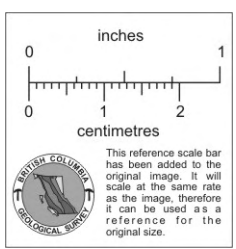
The regional stratigraphy has been studied by the GSC (Muller, 1977, 1980 and updating of the Sicker Group by Massey et al, 1988). Laanela, 1989, summarizes the pertinent stratigraphy related to Mt. McQuillan.

<u>Era</u>	<u>Period or Epoch</u>	<u>Name</u>	<u>Lithology</u>
CENOZOIC	Early to Middle Tertiary	Catfish Intrusions	Sills, dykes and small plutons of feldspar hornblende-plagioclase) porphyry. Associated with mineralized veins.
	Upper Cretaceous	Nanaimo Group	Conglomerate, sandstone, shale and coal
MESOZOIC	Early and Middle Jurassic	Island Intrusions	Granitoid batholiths and stocks, largely dioritic composition.
	Early Jurassic	Bonanza Group	Lava, tuff and breccia of basaltic and rhyolitic composition.
	Late to Middle Triassic	Vancouver Group	Limestone, argillites, greywackes and Karmutsen - basalts, pillow lavas, tuffs.
PALEOZOIC	Middle Penn. to Early Permian	Sicker Group	St. Marys Lake fm - volcanic sandstone and conglomerate, argillite.
			Mount Mark fm - crinoidal limestone, chert, argillite.
	Devonian		Cameron River fm - ribbon chert, argillite, limestone, sandstone.
			McLaughlin Ridge fm - tuffite, feldspar - crystal tuff, breccia, dacite.
			Nitinat fm - meta basaltic lavas, agglomerate, massive tuffite.
		Duck Lake fm - pillowed and massive basaltic flows, breccias, cherty tuff, massive dacite and rhyolite. Largely occupies the Middle Vein property area.	

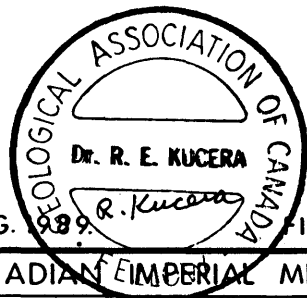
LEGEND

	Carmanah Group	Middle Tertiary
	Catface Intrusions	Early to Middle Tertiary
	Metchosin Volcanics	Early Tertiary
	Nanaimo Group	Late Cretaceous
	Queen Charlotte Group Kyuquot Group	Late Jurassic to Early Cretaceous
	Leech River Formation Pacific Rim Complex	
	Island Intrusions	Early and (?) Middle Jurassic
	Bonanza Group	Early Jurassic
	Vancouver Group Parson Bay Formation Quatsino Formation	Early and (?) Middle Triassic
	Karmutsen Formation	
	Sicker Group	Paleozoic
	Metamorphic Complexes	Jurassic and Older

- (A) Buttle Lake Uplift
- (B) Cowichan-Horne Lake Uplift
- (C) Nanoose Uplift



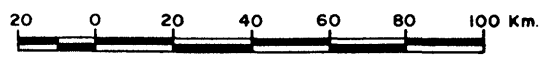
LOCATION OF MIDDLE VEIN PROSPECT



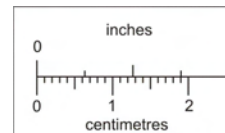
Date: AUG. 1989. FIGURE 4

CANADIAN IMPERIAL MINES INC.

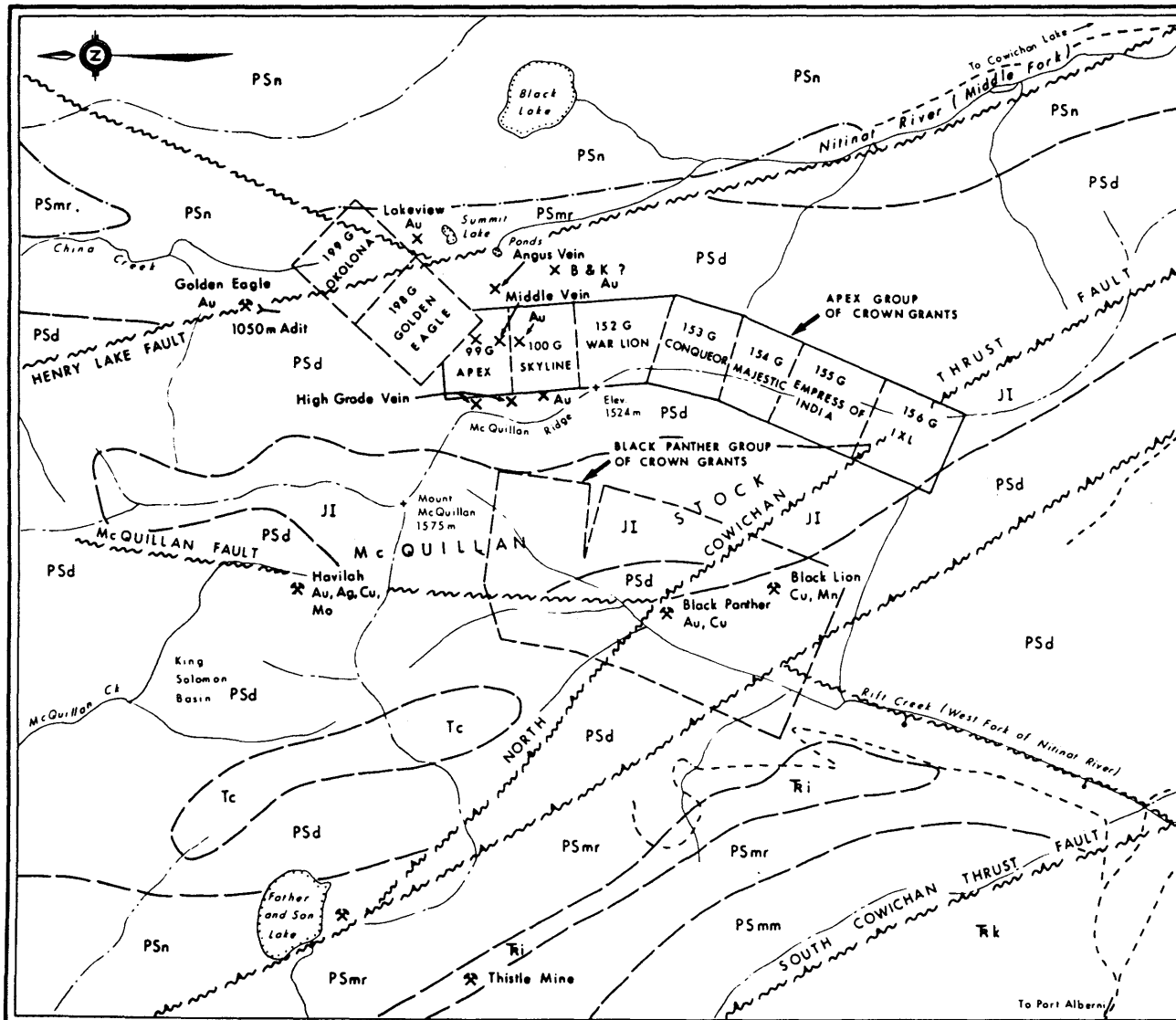
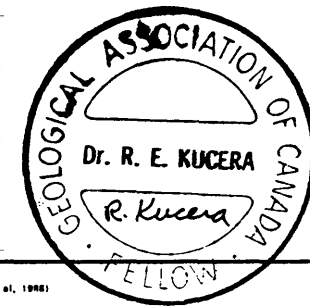
GEOLOGICAL SKETCH MAP
OF
VANCOUVER ISLAND, B. C.
AFTER MULLER, J.E., 1980



Ashworth Explorations Limited



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LEGEND:

(after Massey, et al, 1988)

LATE EOXENE (TERTIARY)

Tc CATFACE INTRUSIONS
Hornblende-Feldspar (acid) Porphyries

EARLY TO MIDDLE JURASSIC

JI ISLAND INTRUSIONS
Diorite, Granodiorite, Quartz Diorite often with abundant Xenoliths, Aplite

LATE TRIASSIC

Ri Sills and Dykes: Diabase and Gabbro (Coeval with Karmutsen formation)

UPPER TRIASSIC

Rk VANCOUVER GROUP:
KARMUTSEN FORMATION: Pillowed and massive Basaltic flows, Hyaloclastite and Hyaloclastite Breccia

MIDDLE DEVONIAN TO LOWER PERMIAN

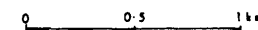
PSmm SICKER GROUP:
MOUNT MARK FORMATION: Massive Crinoidal Limestone, bedded Limestone, Marble, Chert, Cherty Argillite and Siltstone
PSc CARMERON RIVER FORMATION: Ribbon Chert, Argillite, Crinoidal Limestone, intercalated thinly bedded Sandstone, Siltstone and Argillite, epiclastic Sandstone, Conglomerate
PSmr MCLAUGHLIN RIDGE FORMATION: Thinly bedded Tuffite and Lithic Tuffite, Feldspar-Crystal Tuff, heterolithic Lapilli Tuff and Breccia, Rhyolite, Dacite Laminated Tuff, and Chert

PSn NITINAT FORMATION: Pyroxene-Feldspar Phryic Agglomerate, Breccia and Lapilli Tuff, massive and pillowed flows, massive Tuffite and Lithic Tuffite, laminated Tuff, and Chert

PSd DUCK LAKE FORMATION: Pillowed and massive Basaltic flows, monolithic Basalt Breccias and pillow Breccias, Chert, Jasper and Cherty Tuff, Felsic Tuffs and Lapilli Tuff, massive Dacite and Rhyolite

SYMBOLS

- Fault (down thrown side indicated)
- Thrust and reverse fault (up thrown side indicated)
- Geological contact (assumed)
- Geological contact (transitional)
- Lagging road
- Stream
- Height of land (ridge, crest)
- Old mine / major workings or prospect
- Mineralized occurrence / showing
- Old adit



After N.W.D. Massey, et al, 1988;
B.C. Open File Map 1989-6 (Sheet 8),
N.T.S. 92 F-2

CANADIAN IMPERIAL MINES INC.	
GEOLOGY OF MT. McQUILLAN AREA	
VANCOUVER ISLAND, B.C.	
Scale 1:	By: H.L.
Date: July 1989.	Figure: 3
Ashworth Explorations Limited	

Structure and Igneous Intrusives

The Sicker Group rocks are buried under the Mesozoic cover except where they are now exposed in major uplift areas, such as the Cowichan-Horne Lake Uplift. The structure of the Sicker Group appears to be the result of a complex structural history including normal and transcurrent faulting and folding. The rocks are steeply folded and are in places highly sheared and metamorphosed to chloritic schists.

Sicker rocks in the vicinity of Mt. McQuillan were affected by several intrusive events. Triassic diabasic and gabbroic sills and dykes were probably intruded in conjunction with extrusion of Karmutsen basalt followed by early Jurassic Island Intrusions (McQuillan stock) and the early Tertiary sills and dykes composed of light-coloured hornblende-plagioclase porphyry (Catfish Intrusions).

LOCAL GEOLOGY

The Middle Vein Prospect is largely underlain by the lower part of the Sicker Group represented by the Duck Lake formation. It is composed of grey to greenish andesite, dacite, breccia and tuffs. The volcanic rocks are usually aphanitic to very fine-grained and massive. Porphyritic dacite occurs locally and features flow-banding and prominent iron-manganese staining. Veinlets of quartz are abundant that are up to 5 cm wide.

Petrographic examination by Vancouver Petrographics Ltd. show that the andesite is composed of approximately 65% plagioclase and 20% chlorite with accessory quartz and opaques.

The Duck Lake volcanics are altered to a purplish-brown colour at the location of fracture zones. Visible sulphides, mainly pyrite, occur only near geologic contacts and fracture zones. Some malachite staining was noted by Hi-Tec Resource Management geologists in two outcrops represented by rock sample numbers MV/91 FR-4 and MV/91 FR-17 during the 1991 work program. Grab samples FR-4 assayed 20 ppb Au and FR-14 assayed no detectable gold.

The Middle Vein and associated shear is exposed in the early workings and in rock cuts adjacent to a small tributary creek located in the centre of the Apex claim (L99G). To the south, the shear zone is seen in a very steep rocky ravine on the Skyline claim (100G). This ravine owes its existence to differential erosion of the NNE trending shear zone.

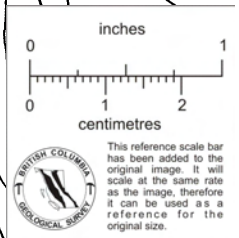
According to Laanela (1989) the shear zone becomes hidden by a small snow-bank on the War Lion claim (152G) but it probably continues farther south along the steep east slope of McQuillan ridge, where it trends northeast along the line of the old Crown Grants (L153G to 156G). (See Figure 5). Recent mapping by Hi-Tec Resource Management has not confirmed the presence of the shear zone nor the Middle Vein on the War Lion and Conqueror claims (Figure 6).

To the north, the veins and attendant shear zone, while being covered by overburden near the workings on the Apex claim, reappear in the China Creek headwaters, on the Golden Eagle claim. As Laanela (1989) points out, the Golden Eagle vein may be the northern extension of the Middle Vein, as both appear to have a similar attitude.

Immediately south of the Middle Vein workings, the Middle Vein structure is obscured for a distance of 110 metres by glacial debris, capped by rock rubble that was swept out of a ravine by debris flows and landslides from the eroded shear zone at the northern border of the Skyline claim. The presence of a quartz vein at depth is suggested by mineralized float located immediately downstream from its postulated trend.

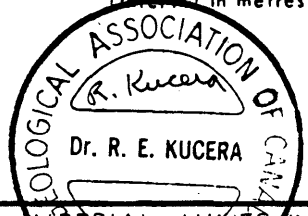
Middle Vein Workings and Mineralization

The fault zone at the Middle Vein workings on the Apex claim consists of two distinct shears. The main shear is exposed near the base of the rocky cliffs, just south of an east flowing stream. The shear is one metre wide and strikes N 18 degrees E and dips 78 degrees E. The shear cuts grey andesite that is moderately silicified and strongly weathered with light to dark brown rusty colour. Sulphide minerals are 1-2% fine-grained pyrite with traces of malachite.



LEGEND

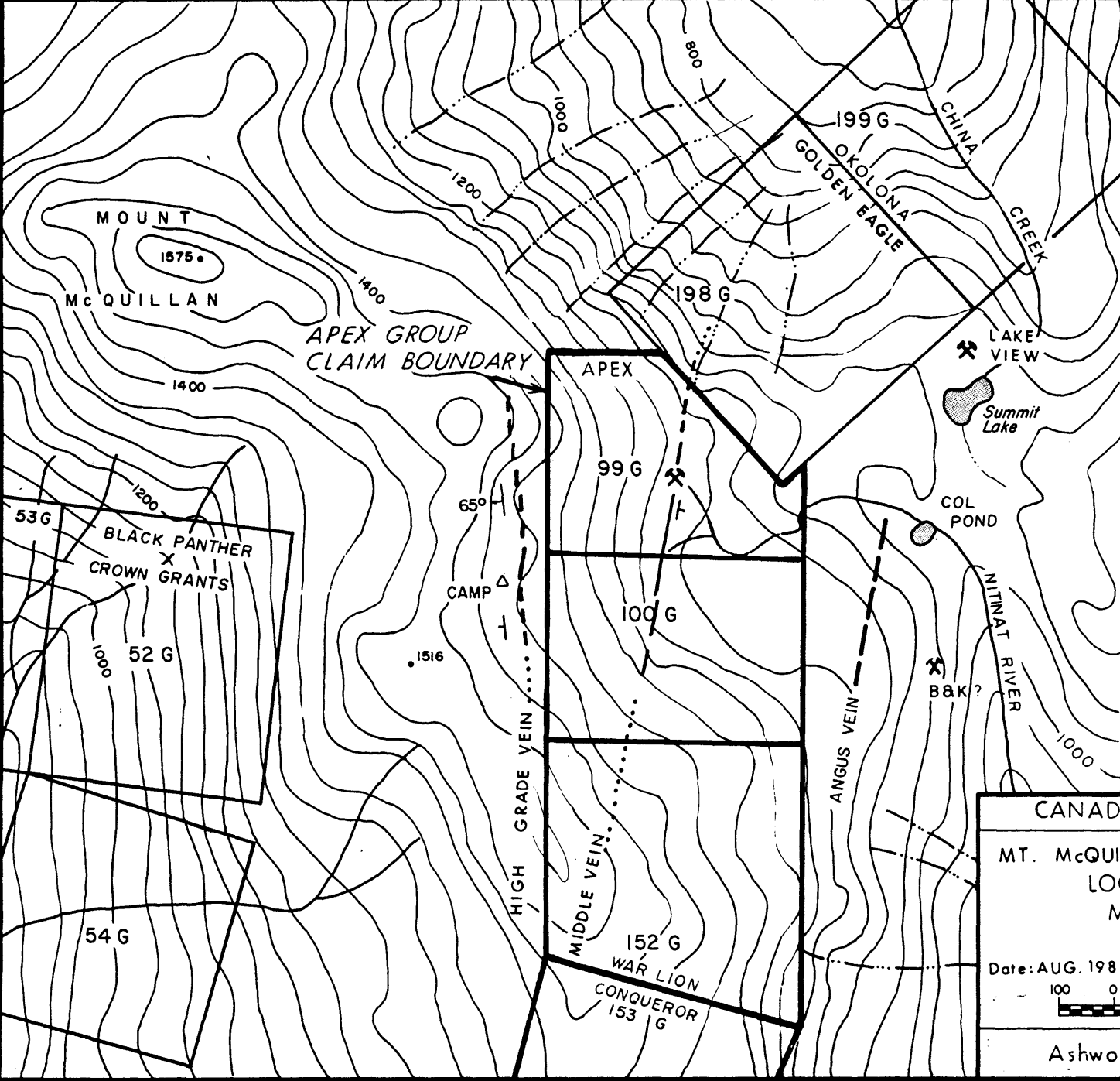
- Middle Vein shear zone (approximate, assumed)
- X Old mineral showing, major workings
- 99G Lot number
- Elevation point
- ┌ Property boundary (revised during 1989 survey of Apex claim)
- Lake
- Creek
- 1000 Topographical contour (horizontal in metres)



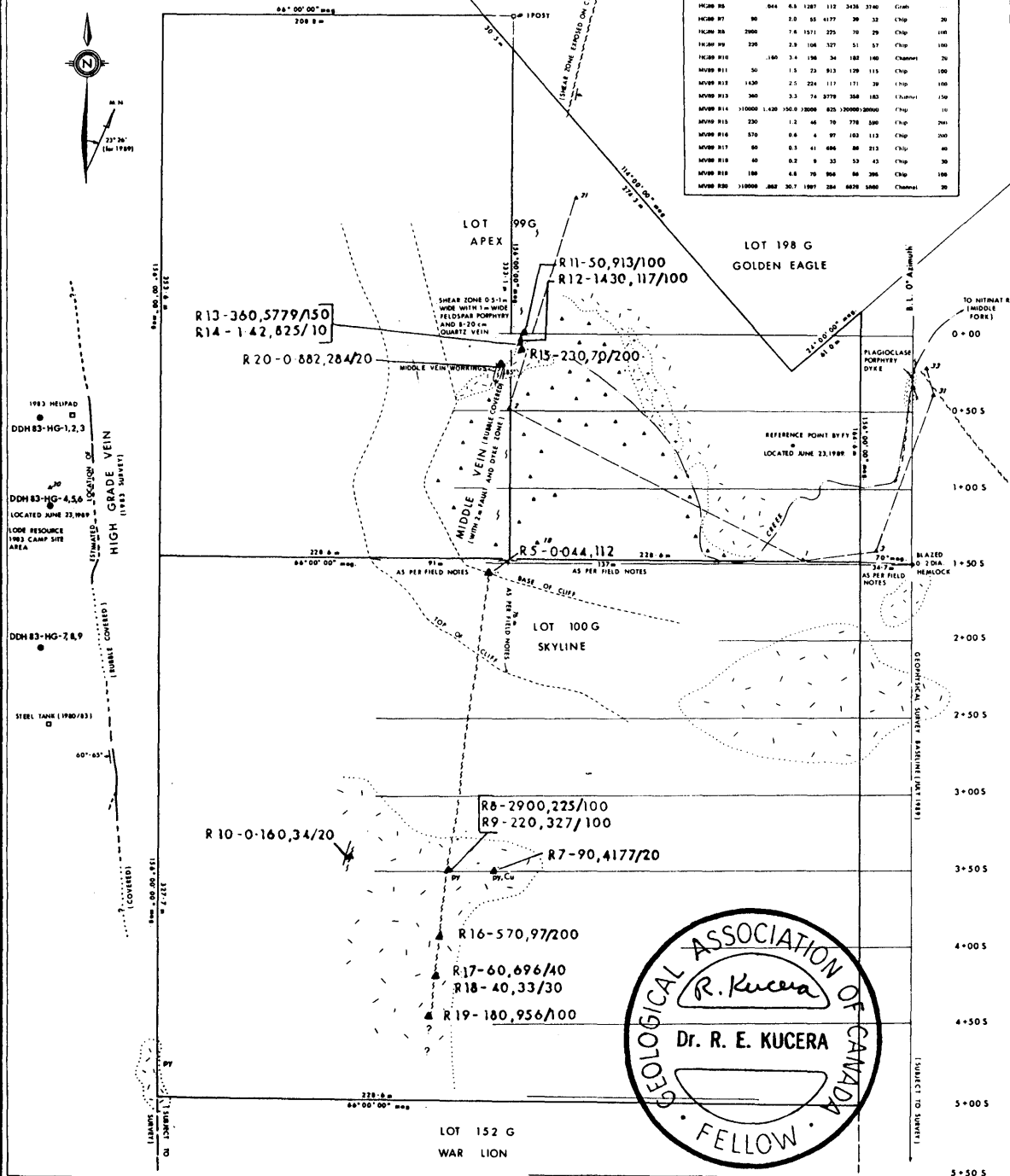
CANADIAN IMPERIAL MINES INC.
 MT. McQUILLAN, VANCOUVER ISLAND, B.C.
 LOCATION SKETCH OF MIDDLE VEIN

Date: AUG. 1989. Scale: 1:10 000 FIGURE: 7

Ashworth Explorations Limited

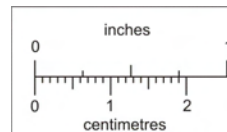


R8-2900,225/100 = Sample No., ppb Au, ppm Cu/width (cm)



ASSAY RESULTS 1988

Sample No.	Au ppb	Ag ppb	As ppm	Cu ppm	Pb ppm	Zn ppm	Type of Sample	Width (cm)
HGM 85	844	4.8	1287	112	3438	2740	Chip	20
HGM 87	90	2.0	85	4177	39	32	Chip	20
HGM 88	2900	7.4	1571	225	70	29	Chip	100
HGM 89	225	2.9	108	327	51	57	Chip	100
HGM 910	160	3.4	198	34	183	140	Channel	20
MVB 911	30	1.5	23	913	129	115	Chip	100
MVB 912	1430	2.5	224	117	171	39	Chip	100
MVB 913	360	3.3	74	3779	368	183	Channel	150
MVB 914	11000	1.420	150.0	13000	825	12000	Channel	10
MVB 915	230	1.2	46	70	378	580	Chip	200
MVB 916	570	0.6	4	97	183	113	Chip	200
MVB 917	60	0.3	41	686	88	213	Chip	40
MVB 918	40	0.2	9	33	53	43	Chip	30
MVB 919	180	4.8	79	866	88	296	Chip	100
MVB 920	11000	1.420	150.7	1997	284	829	Channel	30



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

LEGEND

- ROCK RUBBLE
- MEDIUM TO COARSE-GRAINED GABBRO
- FINE-GRAINED, LIGHT GRAY VOLCANIC ANDESITE
- 1988 LEGAL SURVEY STATION
- ROCK SAMPLE SITE (JUNE 1988)
- 1988/89 DOH COLLARS
- OTHER REFERENCE POINT
- MINERALIZED QUARTZ-CARBONATE VEIN
- FAULT/SHEAR ZONE (OBSERVED, APPROXIMATE)
- PIT/TRENCH
- STREAM/CULVERT

NOTE

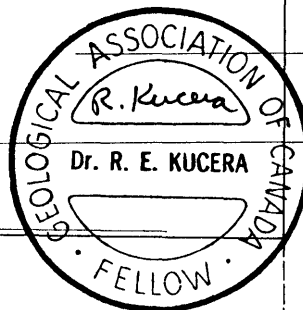
MAGNETIC BEARINGS AND DIMENSIONS AS PER ORIGINAL 1988 FIELD NOTES (CHANGING TO METERS DURING 1989 SURVEY). LOTS 99G AND 198G WERE ORIGINALLY LOCATED OCTOBER 2, 1988. RELOCATION SURVEY BY J.E. ANDERSON & ASSOCIATES, NANAIMO, B.C. DURING JUNE 1988. (SURVEY STATION INDICATED BY TRIANGLE, I.E. # 21).

0 20 40 60 80 100m
NTS 92F/2

BASED ON LEGAL SURVEY MAP BY J.E. ANDERSON & ASSOCIATES, JUNE 24, 1988.

CANADIAN IMPERIAL MINES INC.
MIDDLE VEIN PROSPECT
MOUNT McQUILLAN AREA
VICTORIA B.C.
NORTH PART
GEOLOGY AND ROCK GEOCHEMISTRY

SCALE BY: FT., M.L.
DATE NOV 1989 FIGURE 8
Ashworth Explorations Limited



Mineralized quartz-carbonate lenses up to 10 cm thick and 5 metres long are hosted by sheared, rusty light to dark brown andesite. A 10 cm chip sample (MV89-14) across a quartz-carbonate vein assayed 1.42 oz/ton Au. Isolated pyrite-rich lenses occur in the andesite west of the shear zone. The andesite in this area is cut by intersecting joint sets of N 20 degrees W and N 40 degrees W.

The writer has observed another shear that occurs 14 metres west of the main shear. It is exposed at its top of 10 metre high bluff, along the south side of the same creek that flows past the main shear. The shear is .5 to 1.0 metre wide, strikes N 10 degrees E and dips 85 degrees E. This shear has not been sampled.

A light coloured feldspar-hornblende porphyry dike, 1-2 metres wide is found associated with this shear. The dike weathers a light brown. The feldspar porphyry dike, in which the vein occurs, is very similar in appearance to numerous Tertiary porphyry intrusions occurring elsewhere in the area. Refer to a petrographic analysis by Vancouver Petrographics of a specimen of this dyke material (Appendix F).

A mineralized quartz-carbonate vein, 8 to 20 cm wide is associated with the shear zone as mentioned in the above paragraphs. One channel sample MV89 R20 collected across 20 cm of quartz vein strikes N 10 degrees E, and dips 85 degrees E. The vein is mineralized with 20% sulphides mainly pyrite, chalcopyrite and galena. Copper staining is associated with light brown feldspar porphyry. Sample MV89 R20 assayed 0.88 oz/ton Au. An old trench, 2 metres long, occurs at creek level here. Another trench 20 metres to the south, attempted to reach the vein through rock rubble.

Samples MV89 R11 to MV89 R15 were collected from the Middle Vein structure (the shear zone) where a small quartz carbonate vein, 10 cm wide, is exposed for 5 metres. It is represented by chip sample MV89 R14 which returned a value of 1.42 oz/ton Au. Refer to Appendix A for the gold content and width of samples MV89 R11 to MV89 R15.

The writer has mapped gabbroic dike rock cutting massive andesite north of the creek about 80 metres east of the Middle Vein workings. It trends N 20 degrees to N 40 degrees W and is as much as 10 metres wide. Its southern extension is covered with overburden. (See Figure 8).

The strong shear structure and associated mineralized veins appear to terminate at this creek on the north side of the workings. Although overburden (landslides and moraine) mantle the bedrock north of the creek, it might be possible that lateral movement of a cross fault has offset this shear zone toward the northwest. Inspection of the aerial photographs reveal a subtle lineament that extends N40 degrees W from the northeast corner of the Skyline claim, across the "flat" area of the Apex claim where it fades out in the bedrock bluff northwest of the Middle Vein workings.

RECENT EXPLORATION

Canadian Imperial Mines Inc. did work on the Apex Group property during June and July, 1989 under the direction of Mr. F. Yacoub, Project Geologist, Ashworth Explorations Ltd. This work included:

1. Established grid lines.
2. Legal survey to relocate the Apex and Skyline claims on the ground by J.E. Anderson and Associates, Surveyors and Engineers.
3. VLF-EM and Magnetic survey by Ashworth Explorations Ltd. with interpretation by Mr. T. Matich, Geophysicist of Interpretex Resources Ltd.
4. At the request of Canadian Imperial Mines Inc., Dr. Kucera visited the property on October 16, 1989 and was accompanied by Mr. Yacoub. Dr. Kucera mapped a portion of the Apex claim and supervised sampling of the Middle Vein.

Hi-Tec Resource Management did work on the southern portion of the Middle Vein Prospect during June 1991. This work included geological mapping prospecting, rock sampling and a magnetometer and VLF-EM survey. Three

kilometres of grid lines were surveyed on the War Lion and Conqueror claim blocks.

Geophysical Surveys

Ashworth Explorations Ltd. conducted a combined VLF-EM and magnetometer survey on the Apex and Skyline claims. The survey was run on an E-W line grid, totalling 3 line kilometres, using a Scintrex Omni Plus combined VLF-EM and magnetometer. A total of 12 lines, located at 50 metre intervals were established nearly perpendicular to the strike of the known vein system with station spacing at 12 metres.

The field data was processed, plotted and interpreted by Mr. Tom Match, Geophysist of Interpretex Resources Ltd., Surrey, B.C. The following is condensed from the interpretive report by Mr. Match. This entire report is enclosed here as Appendix "C".

Three magnetic trends, labelled L1, L2, and L3 on field magnetic profile and contour maps, (see figures G1, G2, G3 in Pocket) were delineated by comparing profile characteristics from line to line.

Magnetic lineament L1 consists of two parallel magnetic high trends in the northern portions of the Apex Claim, east of the Middle Vein. Lineament L2 also consists of two parallel magnetic highs which may be the southern continuation of L1. Lineament L3 trends N-S and lies closer to the Middle Vein.

Mr. Match interprets these lineaments to represent basic dykes containing magnetite. Kucera has mapped coarse gabbroic rocks in the same area as the L1 trend. Here, the gabbro intrudes andesitic rocks along a N20-40 degrees W trend.

The only evidence of the EM conductivity on the 1989 grid was the moderate NNW trending conductor C1 on line 2+50S to 3+50S (See figure G1). It is in the same area as the Middle Vein - shear zone structure that trends in a NNE

direction. Mr. Match interprets C1 to be a structural feature, such as a splay fault, subparallel to the fault associated with the Middle Vein. It is possible that the location of samples R8 and R9 (see Figure 7) are on the Conductor C1 trend rather than an extension of the Middle Vein shear zone. There was no noticeable magnetic low response to the feldspar-hornblende dykes or major structure associated with the Middle Vein.

During the 1991 exploration program, a VLF-EM and a magnetometer survey was performed on the 1991 grid over sections on the War Lion and Conqueror claim blocks. An EDA Omni-Plus system was used to simultaneously measure total field magnetics data and VLF-EM data. Parameters measured were total magnetic field strength and VLF-EM field strength and in-phase dip angle. The field data was computer processed and plotted as a contour map on a 1:2,000 scale map (Figure 9). There was no indication of any continuous shear structure along the postulated Middle Vein shear from the VLF-EM surveys by Ashworth Explorations and by Hi-Tec Management.

The 1991 magnetic survey outlined a number of anomalies on the southern part of the field but no responses were evident in the VLF-EM survey (Figure 10). The magnetic anomalies at stations 3+00S - 1+00E and 3+50S - 0+50E cover an area not mapped by the 1991 program due to snow cover. However, a disseminated sulphide pod has been located at line 4+25 S - 0+90 E that measures 3 metres long and 1 metre wide. A chip sample (FR-21) collected from the pod returned values of 130 ppb Au and 411 ppm Cu over a width of 50 cm.

Results of Sampling

Laanela (1989) reported on assays of samples collected in 1980 and 1983 from various parts of the Middle Vein. Four selected samples from the Middle Vein in the old workings, gave assays ranging from 0.58 to 2.20 oz Au/ton and from 0.89 to 2.09 oz Ag/ton, while a grab sample of the andesite wallrock gave traces of Au and Ag. A mineralized boulder containing pyrite and galena from the shear zone about 200 metres south of here, assayed 0.689 oz Au/ton and 0.60 oz Ag/ton. No samples were taken from the shear zone at this locality. Chip

samples across one metre of the mineralized vein/dyke further to the south below the snowfield (Skyline Claim) assayed 0.028 oz Au/ton and 0.20 oz Ag/ton.

Samples collected during the 1989 exploration program include the following:

<u>Sample #</u>	<u>Au</u>	<u>Sample Width (cm)</u>	<u>Type</u>
MV R5	0.044 oz/ton	---	Grab
MV R7	90 ppb	20	Chip
MV R8	2900 ppb	100	Chip
MV R9	220 ppb	100	Chip
MV R10	0.169 oz/ton	20	Channel
MV R11	50 ppb	100	Chip
MV R12	1430 ppb	100	Chip
MV R13	360 ppb	150	Channel
MV R14	1.420 oz/ton	10	Chip
MV R15	230 ppb	200	Chip
MV R16	570 ppb	200	Chip
MV R17	60 ppb	40	Chip
MV R18	40 ppb	30	Chip
MV R19	80 ppb	100	Chip
MV R20	0.882 oz/ton	20	Channel

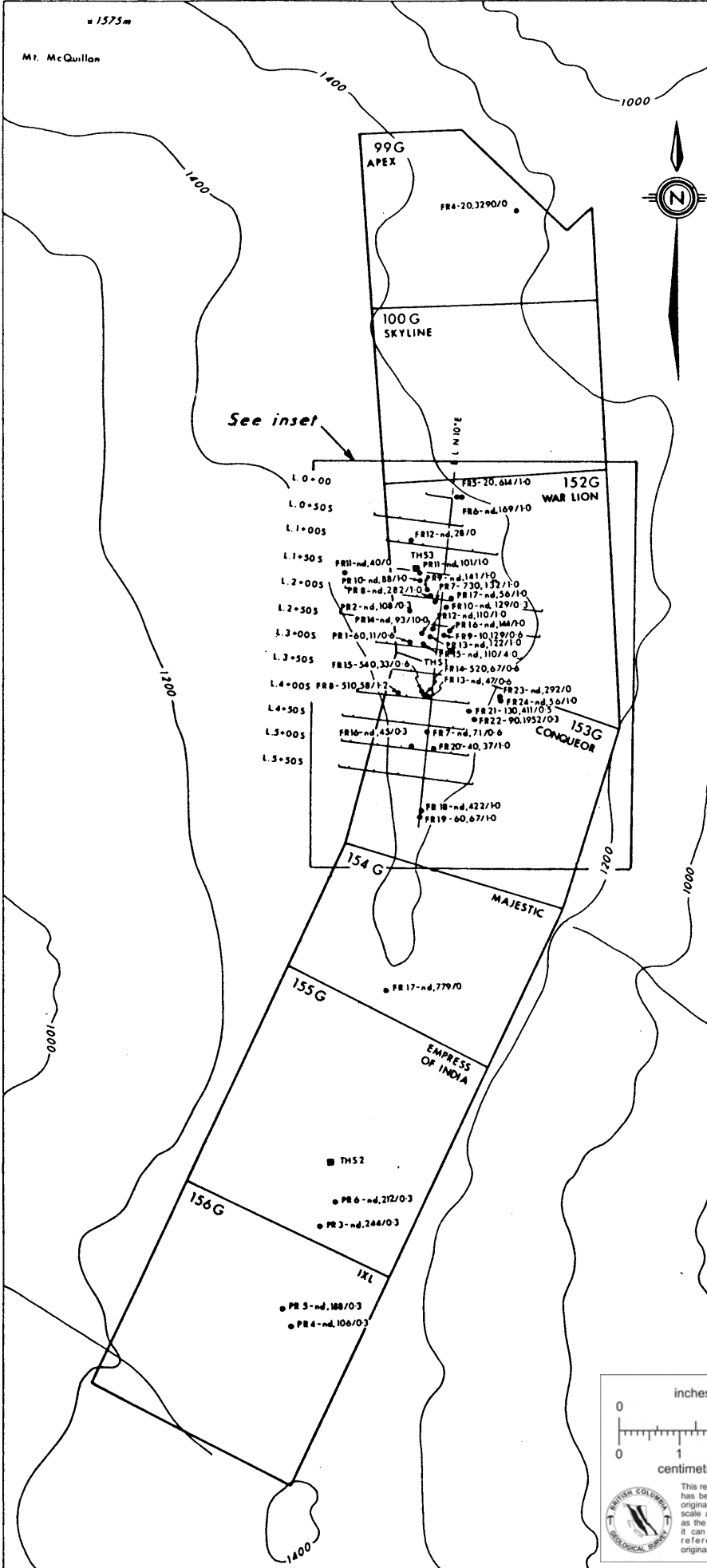
The author took no independent check samples. Samples MV R11 to MV R15 and MV R20 were collected under the supervision of Dr. R. Kucera. The samples were brought to Vancouver and sent to Vangeochem Lab Limited under the author's direction. Sample locations for 1989 are indicated on Figure 8 (in pocket). See sample descriptions and analytical results in Appendix A and B.

Thirty-eight samples were collected during the June 1991 exploration program. The following samples contained gold values.

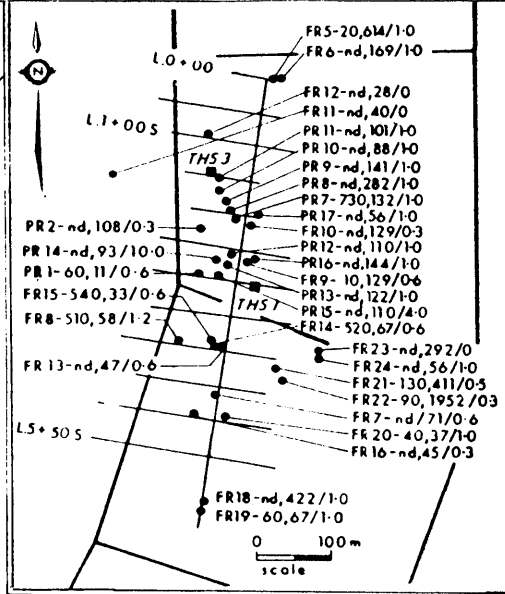
<u>Sample #</u>	<u>Au (ppb)</u>	<u>Cu (ppm)</u>	<u>Sample Width (cm)</u>
MV/91 FR4	20	3290	---
MV/91 FR5	20	614	100
MV/91 FR8	510	58	120
MV/91 FR9	10	129	60
MV/91 FR14	520	67	60
MV/91 FR15	540	73	100
MV/91 FR19	60	67	100
MV/91 FR20	40	37	100
MV/91 FR21	130	411	50
MV/91 FR22	90	1952	30
MV/91 PR1	60	11	60
MV/91 PR7	730	132	100

x 1575m

Mt. McQuillan



See inset



INSET



LEGEND

- Thin section sample location and number
- FR 20-40,37/1-0 Rock sample location and sample number- Au(ppb),Cu(ppm)/sample width in metres
- Flagged grid line (25m station spacing)
- 152 G Lot number
- Property boundary
- Lake
- Creek
- 100 — Topographical contour (interval in metres)



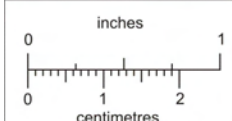
NTS 92 F/2

CANADIAN IMPERIAL MINES INC.

MIDDLE VEIN PROSPECT
MOUNT McQUILLAN AREA
VICTORIA MINING DIVISION,B.C.

ROCK SAMPLE LOCATIONS
AND RESULTS

Scale	By	P.Y.
Date	JULY 1991	FIGURE II
HI-TEC RESOURCE MANAGEMENT LIMITED		



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

Rock sample locations and analytical results for gold and copper are plotted on Figure 11 at a scale of 1:5,000.

Summary statistics for 38 rock sample analyses for Au and Cu suggest that 60 ppb Au and 130 ppm Cu might be considered geochemically anomalous and >500 ppb Au and >400 ppm Cu as highly anomalous. No predictable relationship exists between high Au and high Cu values. Because of the small sample of Au and Cu values, a statistical test is not easily supported.

CONCLUSIONS AND RECOMMENDATIONS

The 1980 and 1983 program by Lode Resources, and the 1989 work program by Ashworth Explorations Limited and the 1991 program by Hi-Tec Resource Management on the Middle Vein Prospect have demonstrated the presence of gold. Gold values range up to 2900 ppb across 100 cm of the shear zone whereas individual quartz-carbonate veins assay up to 1.4 oz Au/ton across widths of up to 10 cm. Exploration potential of the Middle Vein Prospect is judged to be good. Further development of this property is justified.

A two-stage program is recommended to explore the Middle Vein on the surface and at depth. The initial stage consists of aerial photo coverage, stereo-photo interpretation, compilation of a topographic base map, legal surveys, detailed geologic mapping, extensive sampling and surface trenching. The second stage of work, contingent on obtaining encouraging results from the first stage, is also recommended. This stage consists of 600 metres of diamond drilling to explore the Middle Vein at depth.

RECOMMENDED PROGRAM AND COST ESTIMATESStage I

Establish additional grid - 10 km	1,500
Topographic Base Map from photos	4,000
Aerial Photo Interpretation	2,500
Geologic Mapping (20 days @ \$500/day)	10,000
Sampling (250 samples @ \$40/sample)	10,000
Legal Surveys	7,500
Transportation (helicopter @ \$600/hr)	18,000
Trenching	8,000
Reporting and Administration	7,000
Contingency Allowance	<u>6,500</u>
ESTIMATED STAGE I COSTS	\$75,000

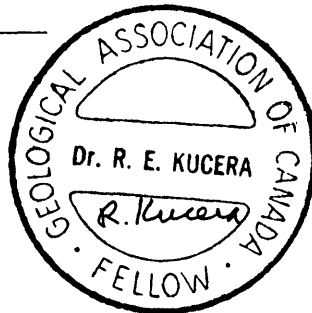
Stage II

A second stage program contingent on obtaining encouraging results from Stage I is recommended. It would include diamond drilling to test the middle vein at depth, assays and further geological work.

KUCERA & ASSOCIATES CONSULTANTS

Richard E. Kucera

Richard E. Kucera, Ph.D.



SELECTED REFERENCES

Carson, D.J.T., 1972: The Plutonic Rocks of Vancouver Island, Geol. Surv. Can. Paper 72-44.

Hi-Tec Resource Management, 1991: maps and summary notes.

Laanela, H., 1989: Preliminary Report on the Middle Vein Prospect (Apex Group) in the Mount McQuillan Area, Victoria Mining Division, B.C. for Canadian Imperial Mines Inc., dated August 8, 1989.

Massey, N.W.D., and Friday, S.J., 1988: Geology of the Alberni - Nanaimo Lakes Area, Vancouver Island, in Geological Fieldwork 1988, in B.C. Geol. Survey Branch Paper 1989 - 1, pp. 61-74.

Muller, J.E., 1977: Geology of Vancouver Island, Geol. Surv. Can. Open File 463; map and marginal notes (3 sheets).

Muller J.E., 1980: The Paleozoic Sicker Group of Vancouver Island, B.C.; Geol. Surv. Can. Paper 79-80.

Sawyer Consultants, 1980: Report on 1980 Diamond Drilling Program on the Summit Lake, High Grade, and Black Panther veins on the Jan-Mar-Remy claims for Jan Resources Ltd.

Stevenson J.S., 1945: Geology and ore deposits of China Creek area, Vancouver Island, B.C., in Annual Report of B.C.M.M., 1944, pp. A143-A161.

ASSAY RESULTS 1989

Sample No.	Au ppb	Au oz/t	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Type of Sample	Width (cm)
HG89 R5		.044	6.5	1287	112	3435	3740	Grab	----
HG89 R7	90		2.0	55	4177	39	32	Chip	20
HG89 R8	2900		7.6	1571	225	70	29	Chip	100
HG89 R9	220		2.9	106	327	51	57	Chip	100
HG89 R10		.160	3.4	198	34	182	160	Channel	20
MV89 R11	50		1.5	23	913	129	115	Chip	100
MV89 R12	1430		2.5	224	117	171	39	Chip	100
MV89 R13	360		3.3	74	5779	358	183	Channel	150
MV89 R14	>10000	1.420	>50.0	>2000	825	>20000	>20000	Chip	10
MV89 R15	230		1.2	46	70	778	590	Chip	200
MV89 R16	570		0.6	4	97	103	113	Chip	200
MV89 R17	60		0.3	41	696	88	213	Chip	40
MV89 R18	40		0.2	9	33	53	43	Chip	30
MV89 R19	180		4.6	70	956	66	395	Chip	100
MV89 R20	>10000	.882	30.7	1997	284	6828	5860	Channel	20

MIDDLE VEIN PROSPECT

Rock Sample Descriptions

1991

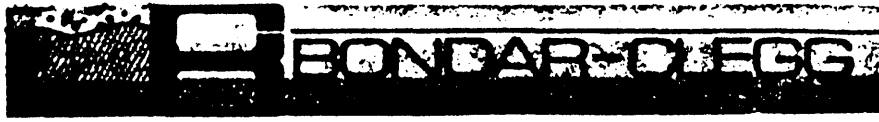
Sample No.	Description	Width (cm)
FR - 4	Grab Sample; rusty, dark grey to black massive volcanic basalt, mineralized with copper staining trace of fine-grained pyrite.	---
FR - 5	Chip sample across one metre of altered, light grey massive volcanic andesite, strong hematitic alteration, silicification with fine to very fine-grained pyrite.	100
FR - 6	Chip; altered limonitic volcanic andesite outcrop, 1% fine-grained pyrite.	100
FR - 7	Brecciated light brown altered volcanic outcrop, moderate limonitic alteration, no sulphides. Chip sample over 60 centimetres.	60
FR - 8	Chip sample across 120 centimetres of feldspar-hornblende porphyry dyke, light brown hematite along fractures, altered hornblende.	120
FR - 9	Weathered, altered light grey, fine-grained volcanic andesite, moderate silification with up to 3% secondary quartz, fractures oriented N-20 degrees east filled with oxides (limonite). Chip sample over 60 centimetres.	60
FR - 10	Silicified zone hosted by fine-grained volcanic andesite, secondary quartz in cavities, the zone exposed for 5 metres, 30 centimetres wide. Chip over the width of the zone.	30
FR - 11	Grab; light grey, fine-grained volcanic andesite outcrop, quartz veinlets up to 1 cm wide, minor epidote.	---
FR - 12	Grab; strong silicified zone at the contact between feldspar porphyry dyke and basic altered volcanic andesite, 25% brown, rusty hematite.	---
FR - 13	Chip; silicified zone of subcrop volcanic andesite with up to 20% brown, hematitic quartz disseminated with <1% very fine-grained pyrite, trace of galena, the zone can be followed for 10 metres, 60 centimetres wide, strike 240 degrees.	60

Sample No.	Description	Width (cm)
PR - 12	Sheared basic volcanics with quartz blebs/veinlets, 1% disseminated pyrite, Fe/Mn stained. Chip sample.	100
PR - 13	Sheared zone of basic volcanics, 1% disseminated pyrite, Fe/Mn stained, quartz blebs and quartz veinlets. Chip sample over 1 metre.	100
PR - 14	Chip; porphyritic basic unaltered volcanic, <5 mm phenocrysts, flow/shear texture aligned with fractured direction 360 degrees/90 degrees.	1000
PR - 15	Chip over 4 metres of sheared basic volcanics, 2% disseminated pyrite. Shearing 309 degrees and vertical, fractures at 301 degrees/70 degrees south.	400
PR - 16	Grey, reddish basic volcanic hosting quartz veinlets with 1% disseminated pyrite chip over 1 metre.	100
PR - 17	Highly silicified basic volcanics, white and red bleached, rusted rocks with >30% quartz; Fe/Mn stained, 3% Py mostly oxidized. Chip sample over 1 metre.	100

APPENDIX B

ANALYTICAL RESULTS
(1980, 1983, 1989, 1991)

Bondar-Chegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 Canada V7P 2R5
 Phone: (604) 985-0881
 Telex: 04-352667



Geochemical
 Lab Report

M. McQuillan

COPY

RECEIVED OCT 21 1983

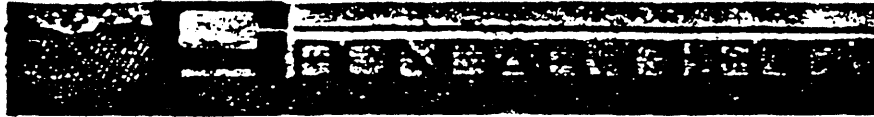
REPORT: 123-3260

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	As PPM	Au PPB	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	As PPM	Au PPB
R 12805	<i>* Middle Vein</i>						<i><0.00584 % = <0.2</i>	D 12860						
							<i><5 = <0.000146</i>							<i>60.00</i>
													<i>0.11972 = 4.1</i>	

Bondar-Chegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 Canada V7P 2R5
 Phone: (604) 985-0881
 Telex: 04-352667



Certificate
 of Analysis

RECEIVED NOV 7 1983

REPORT: 423-3491

PROJECT: HIGH GRADE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	As OPT	NOTES
R 89383		0.002	0.02	
R 89384	<i>M. Vein</i>	0.548	0.71	<i>} Middle Vein</i>
R 89385	<i>HV</i>	0.061	0.14	
R 89386	<i>HV</i>	0.002	0.02	

Bondar-Clegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 Canada V7P 2R5
 Phone: (604) 983-0681
 Telex: 04-332667



Certificate
 of Analysis

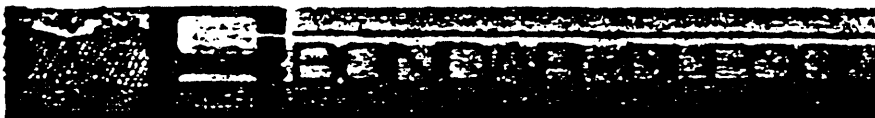
REPORT: 423-3284

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Cu PCT	Pb PCT	Zn PCT	NOTES
12811		0.13	0.59	0.01	0.72	0.14	1/16 N end of RL 4' over py 1980.
12812	Middle	<0.002	0.04] M.V. dyke (monoclyed)
R 12813	Vein	<0.002	0.04				
12814		0.028	0.10				
12805		0.002	0.07				
R-218		22	1A	78	10.2	5	R RR-5-12804 (300m) 300 2400 15600 18.0 > 10000

Bondar-Clegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 Canada V7P 2R5
 Phone: (604) 983-0681
 Telex: 04-332667



Certificate
 of Analysis

REPORT: 423-3140

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	NOTES
R 12804	MV	9.689	9.60	Middle Vein



VANGEOCHEM LAB LTD.
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

TELEPHONE: 986-5211
 AREA CODE: 604

Certificate of Geochemical Analyses

• Specialising in Trace Elements Analyses •

-IN ACCOUNT WITH-
 Lode Resources Corp.
 Suite 1020 - 475 Howe Street
 Vancouver, B.C. V6C 2B3
 Attention:

Report No: 83-01-046 Page 1 of 1
 Samples Arrived: October 3, 1983
 Report Completed: October 13, 1983
 For Project: MIDDLE VEIN Job No. 83-381
 Analyst: D. Chiu Invoice No. 7554

Sample Marking	GEOCHEM		ASSAY		
	Ag ppm	Au ppb	Ag oz/st	Au oz/st	
N. EXTENTION	2.3	345	—	—	} along M.V. to N
N. EXTENTION SOIL	2.5	1475	—	—	
N. EXTENTION ROCK	—	—	0.11	0.018 % 0.02	headwaters of Chine creek (G.E. claim)
<i>M. Quillan - Middle Vein - Clive Ashworth.</i>					

REMARKS: One copy sent to Shworth Exploration Ltd.

Provincial Registered Assayer

Signed:

% Mo = 1.6683 = % MoS₂ 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

MASTEK MINING LTD.

GEOCHEMICAL ANALYTICAL REPORT
=====

CLIENT: ASHWORTH EXPLORATION LTD.
ADDRESS: 718 - 744 W. Hastings St.
: Vancouver, BC
: V6C 1A5

DATE: OCT. 25 1989

REPORT#: 890765 GA
JOB#: 890765

PROJECT#: 287
SAMPLES ARRIVED: OCT. 18 1989
REPORT COMPLETED: OCT. 25 1989
ANALYSED FOR: Au (FA/AAS) ICP

INVOICE#: 890765 NA
TOTAL SAMPLES: 13
SAMPLE TYPE: 13 ROCK
REJECTS: SAVED

SAMPLES FROM: MR. F. YACOB
COPY SENT TO: ASHWORTH EXPLORATION LTD.

PREPARED FOR: MR. F. YACOB



ANALYSED BY: VGC Staff

SIGNED: _____

[Handwritten signature]

GENERAL REMARK: None

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Pd, Pt, Sn, Sr and W.

ANALYST: *Pri*

REPORT #: 890403 PA

ASHWORTH EXPL

Proj: H6

Date In: 89/08/01

Date Out: 89/08/04

Att:

Page 1 of 1

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
R- 5	6.5	0.20	1287	13	<3	1.17	36.5	7	108	112	2.59	0.25	0.54	1015	2	0.07	12	0.04	3435	<2	<2	32	<5	<3	3740
R-10	3.4	0.20	198	40	<3	2.26	1.2	8	109	34	2.24	0.40	0.39	1405	2	0.01	9	0.01	182	<2	<2	31	<5	<3	160
Minimum Detection	0.1	0.01	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000

< = Less than Minimum ns = Insufficient Sample ns = No sample > = Greater than Maximum AuFA = Fire assay/AAS

**ANOMALOUS RESULTS:
 FURTHER ANALYSES
 BY ALTERNATE
 METHODS SUGGESTED**

REPORT NUMBER: 890403 AA

JOB NUMBER: 890403

ASHWORTH EXPLORATION LTD.

PAGE 1 OF 1

SAMPLE #	Au oz/st
R-5	.044
R-10	.169

DETECTION LIMIT

.005

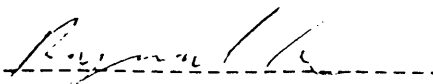
1 Troy oz/short ton = 34.28 ppm

1 ppm = 0.00017

ppm = parts per million

< = less than

signed: _____



ASSAY ANALYTICAL REPORT

CLIENT: ASHWORTH EXPLORATION LTD.
ADDRESS: 718 - 744 W. HASTINGS ST.
: Vancouver, B.C.
: V6C 1A5

DATE: AUGUST 2 1989

REPORT#: 890403 AA
JOB#: 890403

PROJECT#: HG
SAMPLES ARRIVED: AUGUST 1 1989
REPORT COMPLETED: AUGUST 2 1989
ANALYSED FOR: Au

INVOICE#: 890403 NA
TOTAL SAMPLES: 2
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: 2 ROCK

SAMPLES FROM: ASHWORTH EXPLORATION LTD.
COPY SENT TO: ASHWORTH EXPLORATION LTD.

PREPARED FOR: CLIVE ASHWORTH



ANALYSED BY: Raymond Chan

SIGNED:

Raymond Chan

Registered Provincial Assayer

GENERAL REMARK: None

REPORT NUMBER: 890765 GA

JOB NUMBER: 890765

ASHNORTH EXPLORATION LTD.

PAGE 1 OF 1

SAMPLE #	Au ppb
MV 89 R 7	90
MV 89 R 8	2900
MV 89 R 9	220
MV 89 R11	50
MV 89 R12	1430
MV 89 R13	360
MV 89 R14	> 10000
MV 89 R15	230
MV 89 R16	570
MV 89 R17	60
MV 89 R18	40
MV 89 R19	180
MV 89 R20	> 10000

DETECTION LIMIT

5

nd = none detected


-- = not analysed

is = insufficient sample

1988 Triumph Street, Vancouver, B.C. V5L 1K5
 Ph: (604) 251-5656 Fax: (604) 254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Pd, Pt, Sn, Sr and W.

ANALYST: 

ORT #: 890765 PA

ASHWORTH EXPL

Proj: 287

Date In: 89/10/18

Date Out: 89/10/26

Att: F YACOUB

Page 1 of 1

Sample Number	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
89 R 7	2.0	2.34	55	22	<3	0.17	0.7	38	28	4177	7.40	0.25	1.57	986	4	0.01	14	0.06	39	<2	<2	11	<5	<3	32
89 R 8	7.6	0.16	1571	16	<3	0.01	0.1	11	44	225	6.01	0.19	0.06	2170	2	0.01	16	0.01	70	<2	<2	3	<5	<3	29
89 R 9	2.9	2.15	106	23	<3	1.33	0.1	31	23	327	6.00	0.38	2.18	1395	1	0.01	39	0.06	51	<2	<2	28	<5	<3	57
89 R11	1.5	1.66	23	18	<3	2.64	0.1	29	26	913	5.28	0.55	2.96	1520	2	0.01	35	0.03	129	<2	<2	54	<5	<3	115
89 R12	2.5	0.38	224	17	<3	2.16	0.1	13	68	117	3.24	0.42	1.23	2387	<1	0.01	16	0.01	171	<2	<2	38	<5	<3	39
89 R13	3.3	3.78	74	14	3	0.97	1.1	61	8	5779	8.61	0.41	3.34	1456	7	0.01	22	0.07	358	<2	<2	19	<5	<3	183
89 R14	>50.0	0.16	>2000	7	3	0.03	226.3	7	97	825	>10.00	0.32	0.09	74	12	0.01	14	0.01	>20000	<2	<2	1	<5	<3	>20000
89 R15	1.2	0.35	46	246	<3	8.83	3.8	15	15	70	4.37	1.43	0.53	982	<1	0.01	12	0.05	778	<2	<2	74	<5	<3	590
89 R16	0.6	0.47	4	22	<3	0.28	0.1	4	64	97	1.51	0.08	0.37	312	1	0.01	6	0.03	103	<2	<2	4	<5	<3	113
89 R17	0.3	1.49	41	38	<3	3.69	0.1	25	39	696	4.79	0.70	2.64	2376	1	0.01	38	0.03	88	<2	<2	62	<5	<3	213
89 R18	0.2	0.14	9	14	<3	0.09	0.1	6	145	33	1.39	0.05	0.10	533	<1	0.02	6	0.01	53	<2	<2	2	<5	<3	43
89 R19	4.6	0.99	70	7	<3	0.04	0.7	24	29	956	9.25	0.28	0.96	568	9	0.01	11	0.02	66	<2	<2	1	<5	<3	395
89 R20	30.7	0.13	1997	7	<3	0.17	62.3	9	54	284	4.21	0.15	0.10	237	4	0.01	11	0.01	6828	<2	<2	5	<5	<3	5860

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000
 Less than Minimum is = Insufficient Sample ns = No sample > = Greater than Maximum ANOMALOUS RESULTS = Further Analyses by Alternate Methods Suggested

ASSAY ANALYTICAL REPORT

CLIENT: ASHWORTH EXPLORATION LTD.
ADDRESS: 718 - 744 W. Hastings St.
: Vancouver, BC
: V6C 1A5

DATE: OCT. 25 1989

REPORT#: 890765 AA
JOB#: 890765

PROJECT#: 287
SAMPLES ARRIVED: OCT. 18 1989
REPORT COMPLETED: OCT. 25 1989
ANALYSED FOR: Au

INVOICE#: 890765 NA
TOTAL SAMPLES: 2
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: 2 ROCK

SAMPLES FROM: MR. F. YACOUB
COPY SENT TO: ASHWORTH EXPLORATION LTD.

PREPARED FOR: MR. F. YACOUB



ANALYSED BY: Raymond Chan

SIGNED: _____
Registered Provincial Assayer

GENERAL REMARK: None

REPORT NUMBER: 890765 AA

JOB NUMBER: 890765

ASHWORTH EXPLORATION LTD.

PAGE 1 OF 1

SAMPLE #	Au oz/st
MV 89 R14	1.420
MV 89 R20	.882

DETECTION LIMIT

.005

1 Troy oz/short ton = 34.28 ppm

1 ppm = 0.00017

ppm = parts per million

< = less than

signed: _____

Raymond Lee

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCL to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: 

REPORT #: 910079 PA

HI-TEC RESOURCE MGMT LTD.

PROJECT: MIDDLE VIEN

DATE IN: JUNE 27 1991

DATE OUT: JUNE 28 1991

ATTENTION: CANADIAN IMPERIAL MINE INC.

PAGE 1 OF 1

Sample Name	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppb	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MV91 FR4	2.2	2.79	<3	20	76	<3	1.40	3.5	42	33	3290	5.17	<0.01	2.27	869	<1	<0.01	86	0.07	16	<2	<2	118	<5	<3	57
MV91 FR5	<0.1	2.47	<3	20	13	<3	0.36	<0.1	23	39	614	5.06	<0.01	2.52	760	<1	<0.01	<1	0.07	<2	<2	<2	23	<5	<3	76
MV91 FR6	<0.1	3.46	<3	<5	<1	<3	0.17	2.4	31	32	169	6.10	<0.01	3.85	921	<1	<0.01	<1	0.07	<2	<2	<2	1	<5	<3	151
MV91 FR7	<0.1	3.13	<3	<5	6	<3	0.36	<0.1	33	9	71	6.32	<0.01	3.14	761	<1	<0.01	6	0.09	<2	<2	<2	6	<5	<3	120
MV91 FR8	<0.1	2.11	<3	510	<1	<3	0.13	<0.1	17	61	58	4.58	<0.01	2.17	653	<1	<0.01	<1	0.04	<2	<2	<2	1	<5	<3	118
MV91 FR9	<0.1	3.08	<3	10	2	<3	0.22	<0.1	31	39	129	6.11	<0.01	3.76	1654	<1	<0.01	23	0.04	<2	<2	<2	2	<5	<3	105
MV91 FR10	<0.1	2.32	<3	<5	9	<3	0.11	<0.1	25	67	129	3.68	<0.01	2.93	911	<1	<0.01	17	0.03	<2	<2	<2	1	<5	<3	65
MV91 FR11	<0.1	1.73	<3	<5	4	<3	0.28	<0.1	29	76	40	2.97	<0.01	2.35	975	<1	<0.01	21	0.02	<2	<2	<2	12	<5	<3	30
MV91 FR12	<0.1	0.47	<3	<5	8	<3	0.08	<0.1	13	109	28	1.49	<0.01	0.42	468	<1	0.02	<1	0.01	<2	2	<2	2	<5	<3	19
MV91 FR13	<0.1	0.83	<3	<5	59	<3	0.20	<0.1	13	32	47	1.68	<0.01	0.19	407	<1	0.08	8	0.05	9	<2	<2	6	<5	<3	39
MV91 FR14	0.2	1.92	<3	520	15	<3	0.12	<0.1	18	64	67	3.67	<0.01	1.89	719	<1	<0.01	10	0.04	<2	<2	<2	1	<5	<3	100
MV91 FR15	<0.1	1.80	<3	540	3	<3	0.08	<0.1	18	50	73	3.43	<0.01	1.90	860	<1	<0.01	<1	0.03	<2	<2	<2	<1	<5	<3	86
MV91 FR16	<0.1	2.71	<3	<5	5	<3	0.98	<0.1	33	67	45	3.84	<0.01	3.68	1399	<1	<0.01	30	0.03	2	<2	<2	7	<5	<3	56
MV91 FR17	<0.1	1.14	<3	<5	7	<3	0.42	<0.1	16	62	779	1.72	<0.01	1.00	507	<1	0.07	11	0.03	<2	<2	<2	16	<5	<3	28
MV91 FR18	<0.1	1.73	<3	<5	16	<3	0.14	<0.1	47	32	422	4.39	<0.01	1.59	331	<1	0.03	<1	0.06	<2	<2	<2	5	<5	<3	29
MV91 FR19	<0.1	3.05	<3	60	26	<3	1.00	<0.1	40	93	67	5.08	<0.01	2.74	914	<1	<0.01	38	0.07	<2	<2	<2	24	<5	<3	42
MV91 FR20	<0.1	1.87	<3	40	9	<3	0.21	0.3	13	79	37	3.78	<0.01	2.12	692	<1	<0.01	15	0.03	17	<2	<2	3	<5	<3	305
MV91 FR21	0.7	0.79	<3	130	<1	<3	0.10	<0.1	25	95	411	7.12	<0.01	0.64	220	<1	<0.01	<1	0.03	21	<2	<2	<1	<5	<3	97
MV91 FR22	1.4	2.35	<3	90	<1	<3	0.12	1.2	19	59	1952	9.10	<0.01	2.04	453	<1	<0.01	<1	0.04	<2	<2	<2	<1	<5	<3	69
MV91 FR23	<0.1	3.37	<3	<5	<1	<3	0.17	<0.1	25	15	292	6.93	<0.01	3.71	826	<1	<0.01	<1	0.08	<2	<2	<2	<1	<5	<3	216
MV91 FR24	0.2	2.74	<3	<5	61	<3	0.36	<0.1	25	24	56	4.99	<0.01	2.81	1170	<1	<0.01	104	0.07	4	<2	<2	5	<5	<3	189
MV91 PR1	0.2	1.10	<3	60	19	<3	0.12	<0.1	8	135	11	2.28	<0.01	1.16	471	<1	<0.01	8	0.02	20	<2	<2	2	<5	<3	44
MV91 PR2	0.2	2.06	<3	<5	12	<3	0.21	<0.1	22	35	108	3.94	<0.01	2.21	641	<1	<0.01	4	0.07	<2	<2	<2	6	<5	<3	74
MV91 PR3	<0.1	2.39	<3	<5	4	<3	0.70	<0.1	25	101	244	2.44	<0.01	2.38	452	<1	0.03	67	0.02	<2	<2	<2	15	<5	<3	44
MV91 PR4	<0.1	1.89	<3	<5	<1	<3	0.77	<0.1	31	63	106	2.12	<0.01	1.89	447	<1	0.01	27	0.02	15	<2	<2	32	<5	<3	35
MV91 PR5	<0.1	1.70	<3	<5	<1	<3	0.60	<0.1	37	19	188	2.49	<0.01	1.64	616	<1	0.02	4	0.03	<2	<2	<2	23	<5	<3	46
MV91 PR6	0.1	3.20	<3	<5	<1	<3	1.12	<0.1	49	31	212	5.32	<0.01	1.91	687	<1	0.18	11	0.02	<2	<2	<2	36	<5	<3	70
MV91 PR7	<0.1	3.34	<3	730	56	<3	0.40	<0.1	31	34	132	4.74	<0.01	4.25	1103	<1	<0.01	6	0.03	17	<2	<2	10	<5	<3	114
MV91 PR8	0.1	2.97	<3	<5	143	<3	0.15	<0.1	26	32	282	4.28	<0.01	4.16	990	<1	<0.01	6	0.05	91	<2	<2	4	<5	<3	165
MV91 PR9	<0.1	4.14	<3	<5	48	<3	0.12	<0.1	30	28	141	5.35	<0.01	5.92	1298	<1	<0.01	17	0.05	<2	<2	<2	<1	<5	<3	171
MV91 PR10	<0.1	3.64	<3	<5	3	<3	0.13	<0.1	25	26	88	5.43	<0.01	4.72	1413	<1	<0.01	6	0.07	<2	<2	<2	<1	<5	<3	249
MV91 PR11	<0.1	3.72	<3	<5	7	<3	0.30	<0.1	22	15	101	5.16	<0.01	4.50	1109	<1	<0.01	<1	0.07	<2	<2	<2	4	<5	<3	213
MV91 PR12	<0.1	3.75	<3	<5	6	<3	0.44	<0.1	35	24	110	5.84	<0.01	4.48	1052	<1	<0.01	15	0.10	<2	<2	<2	8	<5	<3	298
MV91 PR13	<0.1	3.87	<3	<5	7	<3	0.90	<0.1	35	39	122	6.05	<0.01	4.61	1355	<1	<0.01	25	0.11	<2	<2	<2	19	<5	<3	361
MV91 PR14	<0.1	3.69	<3	<5	156	<3	1.95	<0.1	41	201	93	5.06	<0.01	5.50	1337	<1	<0.01	174	0.15	<2	<2	<2	63	<5	<3	147
MV91 PR15	<0.1	3.76	<3	<5	41	<3	0.82	<0.1	35	69	110	6.02	<0.01	4.84	1462	<1	<0.01	42	0.07	<2	<2	<2	20	<5	<3	326
MV91 PR16	<0.1	3.66	<3	<5	18	<3	0.54	<0.1	35	50	144	5.56	<0.01	5.01	1376	<1	<0.01	38	0.06	<2	<2	<2	13	<5	<3	169
MV91 PR17	<0.1	1.98	<3	<5	12	<3	0.18	<0.1	13	113	56	3.98	<0.01	1.99	673	<1	<0.01	27	0.05	16	<2	<2	3	<5	<3	67

Minimum Detection

0.1 0.01 3 5 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1

Maximum Detection

50.0 10.00 2000 10000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000

< - Less Than Minimum

> - Greater Than Maximum

is - Insufficient Sample

ns - No Sample

*Au Analysis Done By Fire Assay Concentration / AAS Finish.

REPORT NUMBER: 910079 GA

JOB NUMBER: 910079

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PAGE 1 OF 1

SAMPLE #	Au
	ppb
MV91 FR4	20
MV91 FR5	20
MV91 FR6	nd
MV91 FR7	nd
MV91 FR8	510
MV91 FR9	10
MV91 FR10	nd
MV91 FR11	nd
MV91 FR12	nd
MV91 FR13	nd
MV91 FR14	520
MV91 FR15	540
MV91 FR16	nd
MV91 FR17	nd
MV91 FR18	nd
MV91 FR19	60
MV91 FR20	40
MV91 FR21	130
MV91 FR22	90
MV91 FR23	nd
MV91 FR24	nd
MV91 PR1	60
MV91 PR2	nd
MV91 PR3	nd
MV91 PR4	nd
MV91 PR5	nd
MV91 PR6	nd
MV91 PR7	730
MV91 PR8	nd
MV91 PR9	nd
MV91 PR10	nd
MV91 PR11	nd
MV91 PR12	nd
MV91 PR13	nd
MV91 PR14	nd
MV91 PR15	nd
MV91 PR16	nd
MV91 PR17	nd

DETECTION LIMIT 5
 nd = none detected -- = not analysed

ls = insufficient sample

APPENDIX C

INTERPRETATION OF THE GEOPHYSICAL SURVEY
ON THE APEX GROUP

FIGURE G-1, G-2, G-3

1. INTRODUCTION

A geophysical program consisting of electromagnetic (VLF-EM) and magnetic surveys was carried out on a single grid located in the Victoria Mining District near Port Alberni, B.C. The survey was carried out in July 1989.

2. OBJECTIVES

- to establish a correlation between magnetic minerals and mineralized trends,
- to test the effectiveness of VLF-EM in following possible mineralized trends and to establish new unrecognized conductive trends,
- to establish geophysical areas of interest for future exploration.

3. SURVEY SPECIFICATIONS

Survey Parameters

- survey line separation - 50 m
- survey station spacing - 12.5 m
- VLF-EM survey total 3.0 km
- magnetic survey total 3.0 km

Equipment Parameters

- VLF-EM and Magnetic Surveys
 - Scintrex Omni Plus combined VLF-EM and magnetometer
 - Dip Angle (in-phase) and Quadrature (out-of-phase) measured in percent at each station.
 - VLF-EM Field Strength measured at each station
 - transmitting stations used - NLK (24.8 kHz) - Seattle, Wash.
- NAA (21.4 kHz) - Cutler, Ma.
 - earth's total magnetic field measured in gammas (nT)
 - magnetic variations controlled by automatic magnetic base station recording every 30 seconds
 - instrument accuracy +/- 0.1 gamma
 - station repeatability better than +/- 3 gammas in low gradients.

Equipment Specifications - see Appendix I

4. DATA

Calculations

Total Field Magnetic Survey

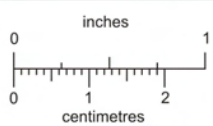
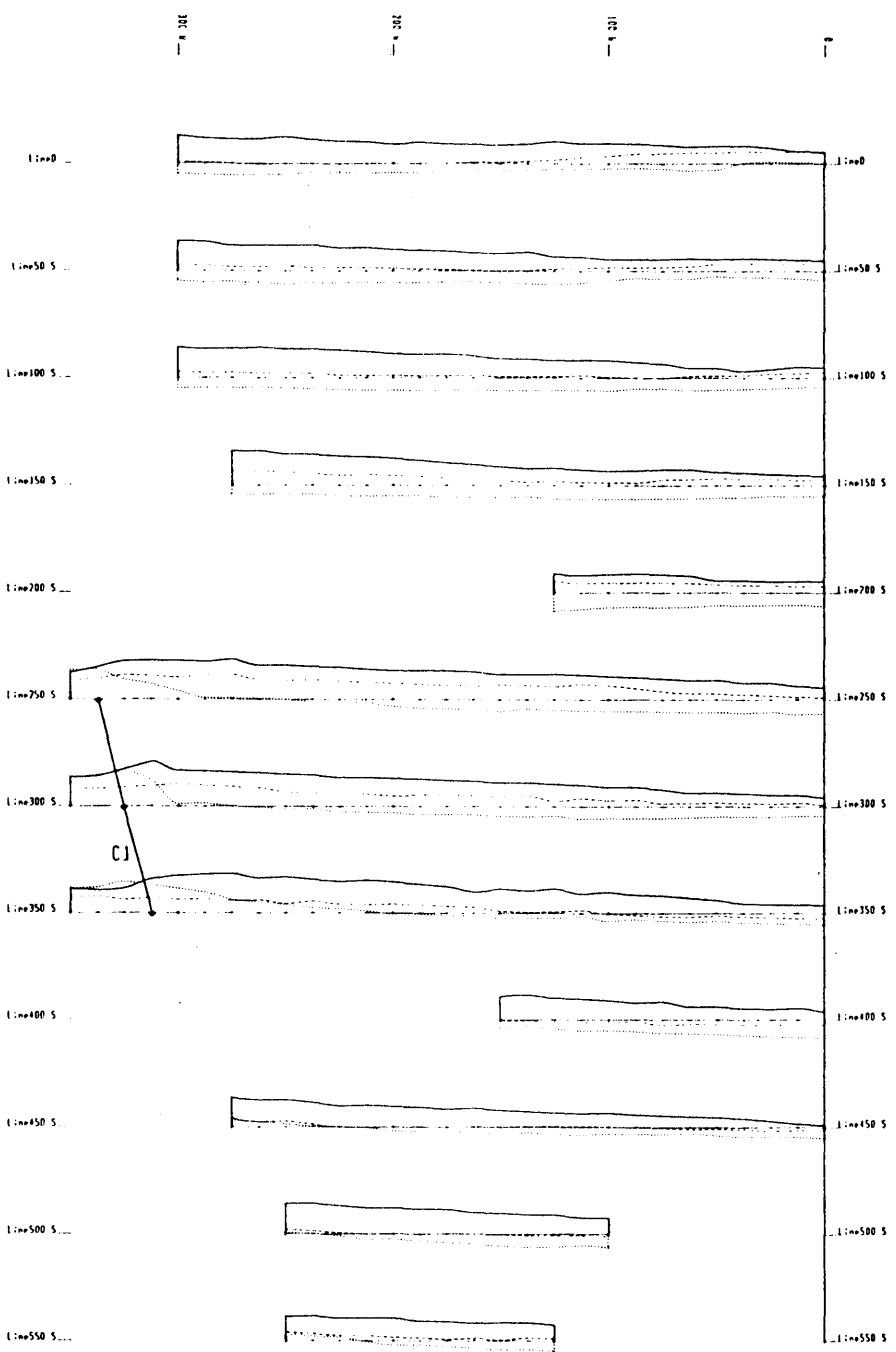
Total field magnetic readings were individually corrected for variations in the earth's magnetic field using magnetic base station values. The formula used for magnetic corrections was;

$$CTFR = TFR + (DBL - BSR)$$

where: CTFR = Corrected Total Field Reading
TFR = Total Field Reading
DBL = Datum Base Level = 56800 gammas
BSR = Base Station Reading

AUTHOR'S NOTE

Data interpreted in this report were accumulated without supervision by Interpretex Resources Ltd. and were supplied by the Client to the writer(s). These data and the locations on the ground from which these data were accumulated are, except when specified otherwise by the writer(s), assumed to be reliable and correct and were interpreted using this assumption.



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

LEGEND

- Anomalous Inflection (In-Phase)
- In-Phase 1 cc. = 20 I
- Quadrature
- Field Strength 1 cc. = 50 unit
- VLF-EM Conductor

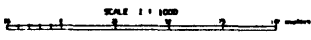


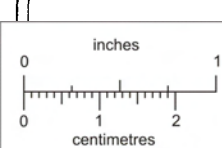
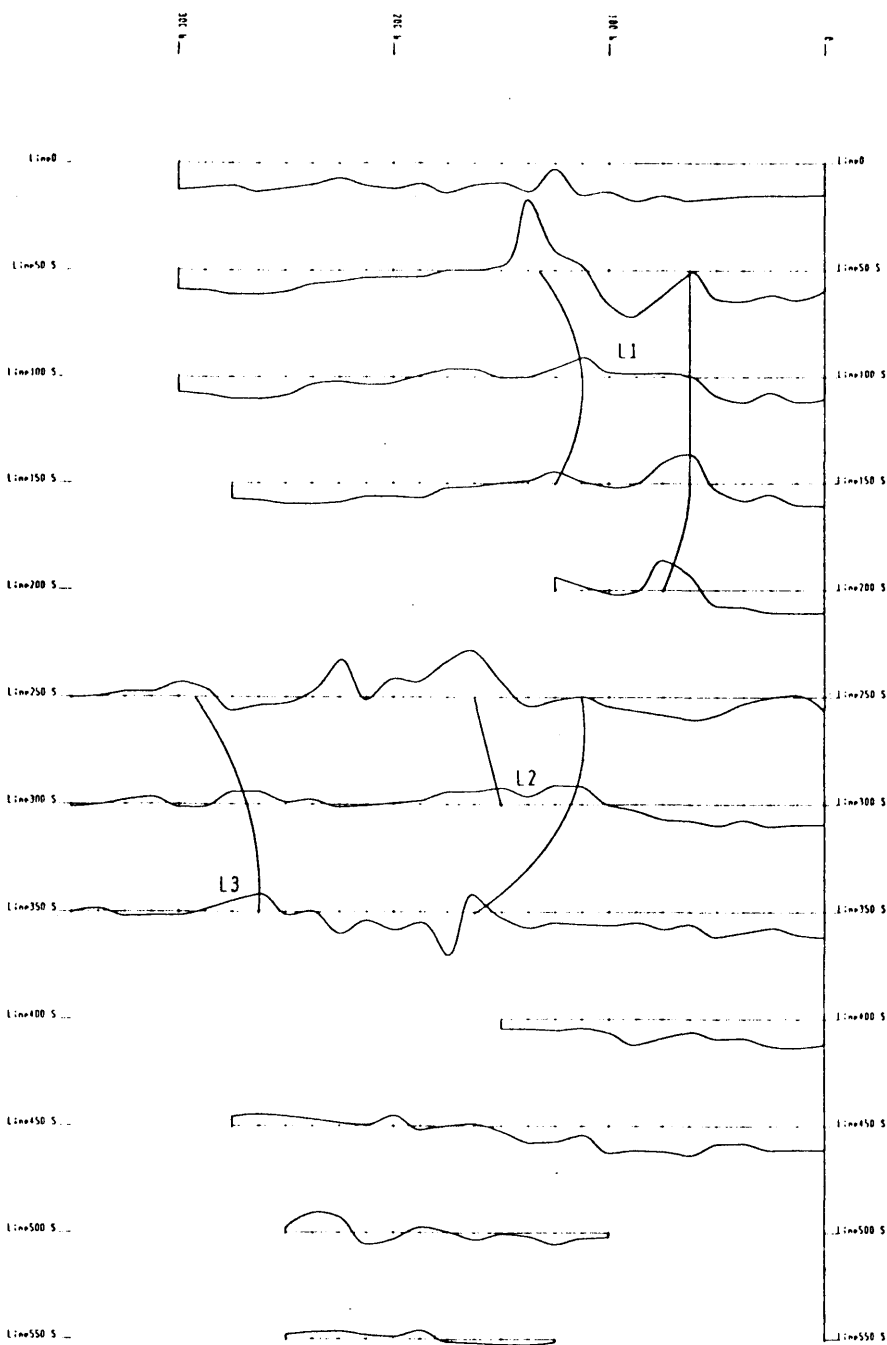
CANADIAN IMPERIAL MINES INC.

VLF-EM Profiles
 M.S. Seattle, Wash.
 Middle Vein Area
 Victoria Mining Division, B.C.
 M/S 01 1/2E

Interpretation Resources Ltd.
 Report I.R. Paltech
 Surveyed by Schuchth Explorations Limited
 Project # 287
 July 1967

Figure # C-1



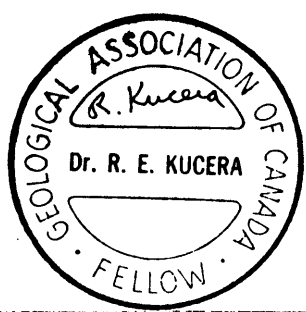
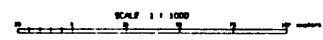


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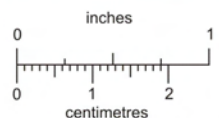
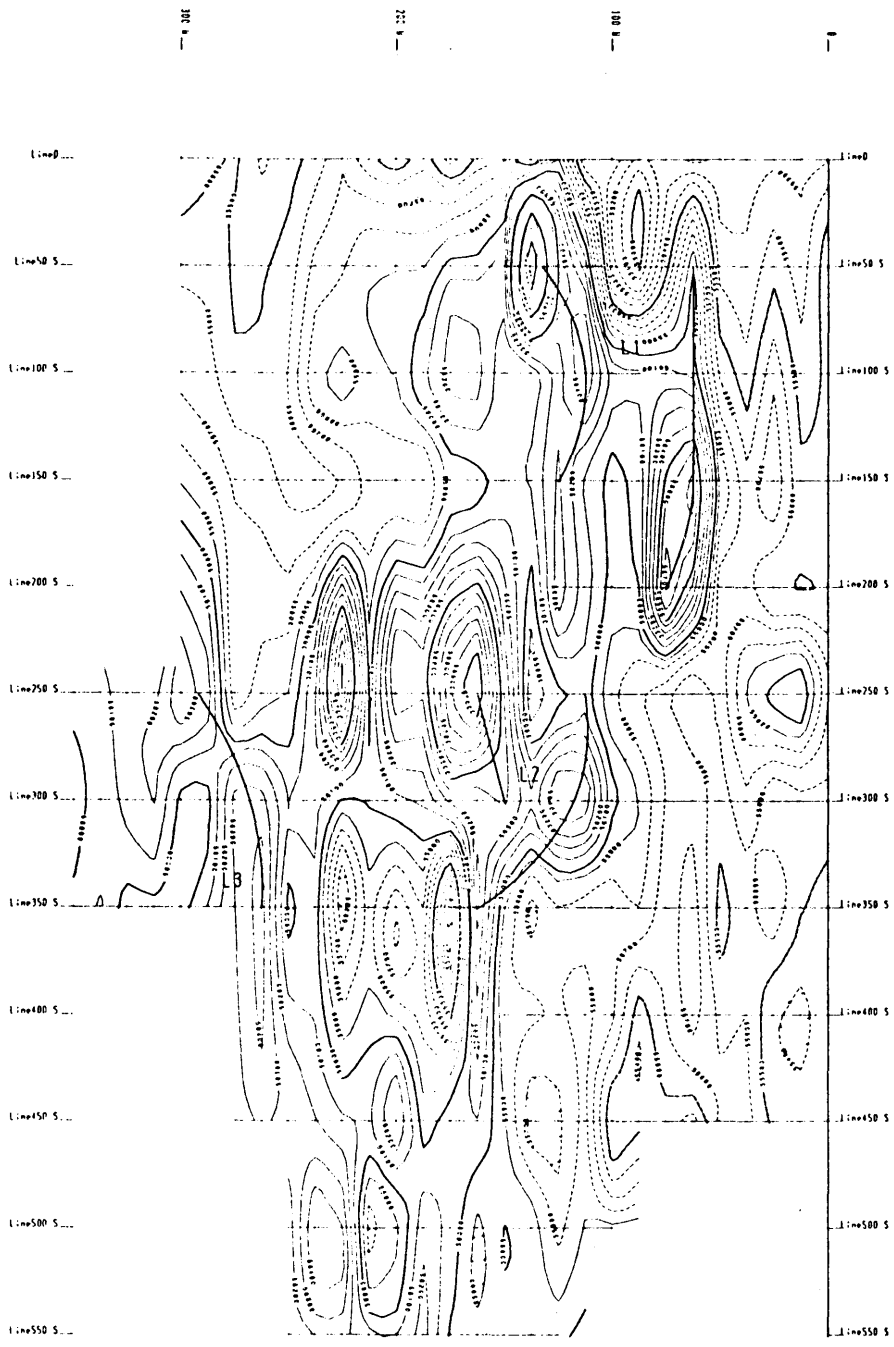


LEGEND

- Total Magnetic Field Strength 1 cm. = 500 Gauss
- Total Magnetic Field Datum Value = 56000 Gauss
- Magnetic Lineament



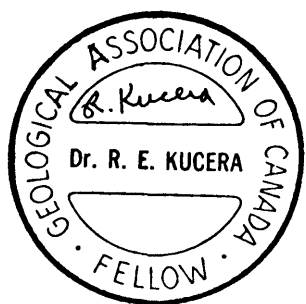
CANADIAN IMPERIAL MINES INC.
 Total Field Magnetic Profiles
 Middle Vein Area
 Victoria Mining Division, B.C.
 M5 92 P72E
 Interpretor Resources Ltd.
 Report T. B. Patich
 Surveyed by Behaviour Explorations Limited
 Project # 207
 July 1949
 Figure # C 2



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

LEGEND

- Contour Interval
- 55700 - 55900
- 50 Gauss
- 100 Gauss
- Magnetic Lineament

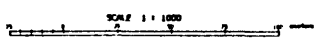


CANADIAN IMPERIAL MINES INC.

Total Field Magnetic Contours
Middle Vein Area
Victoria Mining Division, B.C.
MIS 02 7/78

Interpreter Resources Ltd.
Report I.R. Malick
Surveyed by Research Explorations Limited
Project # 207
July 1984

Figure # G 3



Respectfully Submitted

INTERPRETEX RESOURCES LTD.
Vancouver, British Columbia



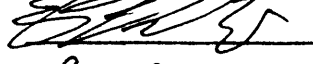
E.R. ROCKEL

Consulting Geophysicist



T.R. MATICH

Geophysicist

PERMIT TO PRACTICE	
INTERPRETEX RESOURCES LTD.	
Signature	
Date	Aug-8, 1989
PERMIT NUMBER: P 3100	
The Association of Professional Engineers, Geologists and Geophysicists of Alberta	

APPENDIX D

GEOPHYSICAL FIELD DATA WORKSHEETS

(1989, 1991)

-300	-50	-300	55575.1	29.3	5.5	330.1	0.6	1.6	7.3
-287.5	-50	-287.5	55570.8	28.6	5.0	327.0	2.6	1.4	7.3
-275	-50	-275	55482.9	24.9	3.5	328.7	2.0	3.1	7.1
-262.5	-50	-262.5	55485.9	25.3	3.7	327.0	0.9	3.6	7.2
-250	-50	-250	55541.5	25.2	4.5	322.2	1.0	3.3	7.3
-237.5	-50	-237.5	55730.5	25.5	3.1	325.9	0.2	3.1	7.3
-225	-50	-225	55789.7	23.0	3.3	325.9	-0.4	3.9	7.4
-212.5	-50	-212.5	55880.5	23.1	3.0	327.5	1.0	3.6	7.6
-200	-50	-200	55893.4	21.4	2.4	325.7	0.0	4.3	7.4
-187.5	-50	-187.5	55893.2	20.7	1.8	326.5	0.3	3.4	7.5
-175	-50	-175	56048.1	20.1	1.4	327.8	0.0	3.1	7.6
-162.5	-50	-162.5	56053.1	18.3	0.8	327.9	0.3	3.0	7.7
-150	-50	-150	56150.8	18.1	0.5	327.5	0.0	2.3	7.8
-137.5	-50	-137.5	57689.2	19.2	0.8	324.7	0.5	4.1	7.8
-125	-50	-125	56494.6	14.9	1.9	322.4	0.6	4.2	7.8
-112.5	-50	-112.5	56156.1	14.7	2.8	326.4	1.0	4.7	7.9
-100	-50	-100	55240.4	12.5	3.3	330.8	0.0	5.7	8.0
-87.5	-50	-87.5	54984.9	12.2	3.0	337.0	0.5	5.6	8.3
-75	-50	-75	55467.7	12.5	3.5	335.9	1.1	4.5	8.2
-62.5	-50	-62.5	55987.0	13.1	4.1	335.6	2.4	5.2	8.2
-50	-50	-50	55368.6	12.4	6.4	341.6	3.6	6.9	8.5
-37.5	-50	-37.5	55321.2	13.3	7.0	338.8	4.7	7.2	8.4
-25	-50	-25	55464.4	12.6	7.3	338.8	3.8	7.3	8.6
-12.5	-50	-12.5	55347.6	11.8	6.3	335.7	4.0	6.0	8.5
0	-50	0	55566.3	11.5	9.6	332.9	4.6	7.7	8.5
line	0								
-300	0	-300	55405.8	27.3	2.1	329.9	-4.8	2.6	7.3
-287.5	0	-287.5	55473.5	24.7	1.0	327.5	-5.1	2.3	7.3
-275	0	-275	55518.0	23.8	0.1	325.6	-3.3	2.3	7.4
-262.5	0	-262.5	55380.1	24.3	-0.7	328.8	-4.2	1.9	7.4
-250	0	-250	55459.7	25.9	-0.1	328.0	-4.7	1.5	7.5
-237.5	0	-237.5	55544.7	23.7	-0.2	332.6	-5.6	1.6	7.6
-225	0	-225	55687.8	22.3	-0.3	333.2	-4.6	2.6	7.6
-212.5	0	-212.5	55523.3	21.4	-0.3	330.9	-3.9	3.5	7.8
-200	0	-200	55449.3	19.0	0.0	332.1	-4.5	3.3	7.9
-187.5	0	-187.5	55559.9	20.9	-0.1	331.8	-3.3	3.9	7.9
-175	0	-175	55355.4	19.5	0.4	335.7	-1.5	4.4	8.0
-162.5	0	-162.5	55532.7	18.9	1.5	337.6	-1.7	4.5	8.0
-150	0	-150	55587.8	18.5	1.7	338.2	-1.1	5.3	8.1
-137.5	0	-137.5	55383.3	19.5	2.5	337.9	-0.1	5.3	8.2
-125	0	-125	55907.9	21.7	3.6	340.5	1.3	5.9	8.3
-112.5	0	-112.5	55298.2	20.1	6.0	340.7	1.6	8.0	8.3
-100	0	-100	55371.0	19.9	7.0	341.8	2.0	9.0	8.6
-87.5	0	-87.5	55158.0	19.5	8.9	342.5	1.9	9.7	8.5
-75	0	-75	55278.7	18.5	9.5	341.5	3.4	10.5	8.6
-62.5	0	-62.5	55169.4	16.9	10.3	337.0	1.6	10.0	8.7
-50	0	-50	55222.0	17.4	10.0	338.7	3.2	10.1	8.7
-37.5	0	-37.5	55270.6	17.7	11.4	355.3	3.1	10.5	10.7
-25	0	-25	55283.8	15.7	10.5	358.4	3.6	9.1	10.3
-12.5	0	-12.5	55277.8	12.6	11.2	355.9	2.1	8.1	10.4
0	0	0	55295.7	12.5	9.9	355.3	2.4	6.2	10.4
line	-550								
-250	-550	-250	56148.1	24.3	8.1	370.3	-7.2	-5.2	8.3
-237.5	-550	-237.5	56203.9	25.0	6.5	363.4	-7.0	-4.2	8.2
-225	-550	-225	56224.0	22.9	5.3	362.5	-9.2	-5.5	8.2
-212.5	-550	-212.5	56137.1	23.0	4.7	350.7	-7.0	-4.6	8.4

-200	-550	-200	56103.2	22.8	3.2	342.3	-6.8	-5.5	8.3
-187.5	-550	-187.5	56241.3	20.0	2.7	343.7	-9.9	-3.2	8.7
-175	-550	-175	55976.0	19.6	1.4	339.2	-11.7	-4.6	8.4
-162.5	-550	-162.5	55949.1	18.1	2.5	336.9	-11.2	-4.1	8.4
-150	-550	-150	55912.7	18.8	0.8	332.4	-10.1	-4.1	8.5
-137.5	-550	-137.5	55907.0	18.4	2.8	332.6	-10.1	-5.0	8.5
-125	-550	-125	55972.6	16.1	2.0	328.2	-10.3	-2.6	8.5
line	-500								
-250	-500	-250	56142.1	30.3	4.6	357.9	-9.4	-3.9	8.3
-237.5	-500	-237.5	56494.0	30.4	3.0	354.4	-8.4	-2.6	8.4
-225	-500	-225	56404.0	28.4	1.5	349.1	-9.9	-4.8	8.3
-212.5	-500	-212.5	55767.9	26.2	0.2	341.3	-10.9	-3.3	8.4
-200	-500	-200	55882.9	26.1	0.4	342.2	-10.4	-3.7	8.4
-187.5	-500	-187.5	56161.8	25.0	-0.3	338.1	-11.9	-4.5	8.4
-175	-500	-175	56068.6	24.8	0.7	334.0	-11.4	-5.2	8.4
-162.5	-500	-162.5	55875.4	21.8	0.3	331.2	-13.5	-3.7	8.3
-150	-500	-150	56003.9	21.3	-0.7	326.9	-12.9	-3.5	8.3
-137.5	-500	-137.5	55953.8	19.7	-1.6	323.5	-12.1	-4.5	8.4
-125	-500	-125	55769.3	19.4	-1.8	323.5	-12.7	-3.0	8.4
-112.5	-500	-112.5	55908.0	16.9	-1.8	327.3	-13.6	-3.3	8.5
-100	-500	-100	55935.6	16.6	-2.3	322.5	-14.4	-4.5	8.6
line	-450								
-275	-450	-275	56261.5	28.5	8.1	368.9	-1.8	-3.1	8.4
-262.5	-450	-262.5	56314.2	26.4	4.5	366.0	-3.8	-2.8	8.4
-250	-450	-250	56274.0	26.5	5.6	360.3	-2.4	-2.9	8.5
-237.5	-450	-237.5	56204.4	24.2	2.6	355.3	-3.7	-4.1	8.4
-225	-450	-225	56119.5	21.1	-0.4	355.1	-7.8	-4.1	8.5
-212.5	-450	-212.5	56076.3	21.7	-0.6	352.2	-7.4	-4.5	8.4
-200	-450	-200	56294.5	20.6	-0.1	344.3	-5.5	-5.7	8.5
-187.5	-450	-187.5	55950.3	19.8	0.3	342.9	-6.9	-5.8	8.4
-175	-450	-175	56052.2	18.1	-0.4	342.8	-9.1	-5.4	8.5
-162.5	-450	-162.5	56096.3	19.0	0.3	339.7	-7.2	-5.5	8.5
-150	-450	-150	55912.2	17.2	0.2	339.4	-8.8	-4.6	8.4
-137.5	-450	-137.5	55647.8	15.8	0.6	340.2	-9.0	-3.9	8.6
-125	-450	-125	55677.7	14.6	0.7	337.1	-8.6	-3.5	8.5
-112.5	-450	-112.5	55836.3	14.2	0.9	335.3	-9.5	-3.8	8.6
-100	-450	-100	55413.2	14.4	0.3	337.7	-8.1	-4.3	8.7
-87.5	-450	-87.5	55472.7	12.9	-0.8	336.4	-9.4	-4.0	8.8
-75	-450	-75	55447.1	12.2	-1.1	336.9	-9.2	-4.6	8.9
-62.5	-450	-62.5	55361.0	11.2	-2.1	338.8	-10.9	-5.2	8.8
-50	-450	-50	55626.2	10.6	-1.8	334.1	-10.9	-5.4	8.9
-37.5	-450	-37.5	55638.0	9.4	-2.2	331.3	-10.6	-6.6	8.9
-25	-450	-25	55475.3	7.1	-3.6	332.0	-11.6	-7.3	9.0
-12.5	-450	-12.5	55486.4	4.6	-3.0	330.4	-14.8	-6.8	8.9
0	-450	0	55476.4	3.5	-2.8	329.0	-15.5	-6.9	8.9
line	-400								
-150	-400	-150	55813.0	23.1	-1.4	334.7	-8.2	-3.2	8.6
-137.5	-400	-137.5	55815.1	24.6	-0.8	338.0	-5.5	-1.8	8.5
-125	-400	-125	55784.6	21.7	-2.4	333.0	-7.9	-3.1	8.6
-112.5	-400	-112.5	55832.8	21.1	-2.4	328.2	-7.7	-1.6	8.6
-100	-400	-100	55724.8	19.5	-2.3	329.2	-7.3	-2.1	9.0
-87.5	-400	-87.5	55439.0	17.2	-1.7	326.4	-10.6	-2.1	8.7
-75	-400	-75	55601.5	18.4	-4.8	323.0	-8.8	-3.0	8.8
-62.5	-400	-62.5	55741.7	13.7	-3.7	321.6	-11.0	-3.3	8.9
-50	-400	-50	55578.0	13.8	-4.1	319.7	-12.5	-3.3	8.9
-37.5	-400	-37.5	55600.5	12.2	-4.4	317.6	-11.5	-4.6	8.9

-25	-400	-25	55412.5	11.4	-4.6	314.5	-12.7	-4.2	8.9
-12.5	-400	-12.5	55375.9	12.3	-3.9	313.1	-12.3	-4.0	8.9
0	-400	0	55444.6	9.1	-4.4	311.3	-17.2	-5.9	8.8

DATA LISTING

Line & Station + = Northings and Eastings
- = Southings and Westings

Area : Port Alberni
Grid : Middle Vein
Date : June, 1991

Data Type(s)

Data Details

#1. Total Field Magnetic Values	Corrected Total field
#2. VLF-EM In-Phase Values	Westerly using Annapolis station
#3. VLF-EM Quadrature (out of Phase)	Westerly using Annapolis station
#4. VLF-EM Field Strength	Annapolis Total Field Strength
#5. VLF-EM In-phase Values	Westerly using Hawaiian station
#6. VLF-EM Quadrature (out of Phase)	Westerly using Hawaiian station
#7. VLF-EM Field Strength	Hawaii Total Field Strength

The instrument used was the EDA VLF-EM/Magnetic System in gathering all of the above data types.

	line		0					
	-50		0	-50	56181.4	5.3	14.5	7.17
-10.2		1.3	10.65					
	-37.5		0	-37.5	56235.3	4.9	14.3	7.26
-8.900001		1.3	11.45					
	-25		0	-25	56213.1	5.8	13.6	7.55
-6.5		.9	11.99					
	-12.5		0	-12.5	56173.5	5.8	13.1	7.44
-6.4		.3	11.96					
	0		0	0	56000.91	*	*	*
*	*		*					
	line		-50					
	-150		-50	-150	56034.3	-14.1	.7	6.97
-16.9		8.6	11.29					
	-137.5		-50	-137.5	56010.8	-16.3	3.8	6.8
-21.3		7.2	10.72					
	-125		-50	-125	56036	-21.8	3.2	6.67
-27.1		6.2	10.62					
	-112.5		-50	-112.5	56081	-15.5	3.3	6.82
-29		5.1	10.99					
	-100		-50	-100	56210.6	-13.6	5.2	6.82
-27.9		4.1	11.41					
	-87.5		-50	-87.5	56556.8	-13.7	5.5	6.94
-30.4		2.7	11.46					
	-75		-50	-75	55742.4	-11.7	5.9	7.17
-25.9		1.2	11.51					
	-62.5		-50	-62.5	56052.2	-10	6	7.1
-27.1		0	11.6					
	-50		-50	-50	56076.4	-7.8	6.4	7.19
-19.4		.1	13.33					
	-37.5		-50	-37.5	56157.7	-11.9	5.3	7.11
-31.3		-1.6	11.81					
	-25		-50	-25	56276.7	-7.5	4.3	7.21
-33.2		-2.3	12.47					
	-12.5		-50	-12.5	56390	-8.400001	4	7.04
-36.7		-2.5	12.52					
	0		-50	0	56192.8	-8.400001	4.3	7.26
-34.8		-3.5	12.14					
	12.5		-50	12.5	55964.8	-9.2	2.9	7.39
-40.2		-6.5	12.94					
	25		-50	25	55968.3	-7.9	2.8	7.22
-38.4		-4.8	14.05					
	37.5		-50	37.5	55756.7	-2.2	6.3	7.36
-26.9		-3.8	14.61					
	line		-100					
	-125		-100	-125	56379.4	-12.2	-4.8	6.59
-8.7		4.5	13.23					
	-112.5		-100	-112.5	56025.1	-11.3	-5.5	6.88
7.2		5.5	12.81					
	-100		-100	-100	56252	-8.8	-3.4	6.67
2.6		1.9	11.63					
	-87.5		-100	-87.5	56385.9	-7	-2.3	6.66

4.7	1.1	11.57						
	-75	-100	-75	56323.6	-7.6	-1.7	6.74	
-7	-1	11.14						
	-62.5	-100	-62.5	56016	-3.1	-5	6.73	
1.8	-5.3	11.18						
	-50	-100	-50	56058.5	-3	-1.1	6.29	
-9.7	-9	10.33						
	-37.5	-100	-37.5	56118.2	-5.1	-1.7	7.12	
-4.2	-8.5	11.4						
	-25	-100	-25	56173.7	-3.7	-1.8	6.82	
-2.8	-9.3	10.95						
	-12.5	-100	-12.5	56218.4	-6.9	-2.5	7.06	
-9.1	-9.8	11.6						
	0	-100	0	56210.8	-6.5	-1.4	6.88	
-8.400001	-11.5	11.43						
	12.5	-100	12.5	56227	-2.9	-1.7	6.87	
-9.900001	-9.1	11.53						
	25	-100	25	56116.7	-4.3	-1.3	7.02	
-10.4	-8.8	11.35						
	37.5	-100	37.5	55939	-5.3	-2	7.14	
-15.9	-9.3	11.33						
	50	-100	50	55826.8	-2	-2	7.03	
-16.8	-10.3	10.76						
	62.5	-100	62.5	55843	-4.2	-1.1	7.05	
-16.7	-9.900001	11.33						
	75	-100	75	55837.7	-4	-3	6.91	
-22.5	-12.8	10.79						
	87.5	-100	87.5	55878.7	-2.1	.7	7.21	
-20.6	-11.9	11.52						
	100	-100	100	55855.4	-2	3.1	7.28	
-29.2	-11.1	11.5						
	line	-150						
	-112.5	-150	-112.5	56051.2	-17.4	-5.5	6.93	
-13.3	10.1	10.96						
	-100	-150	-100	56068.4	-20.9	-5.7	6.81	
-21.2	8.3	10.5						
	-87.5	-150	-87.5	56065.6	-17.9	-5.4	6.96	
-27.7	5.5	11.61						
	-75	-150	-75	56098.4	-14.5	-4.4	7.1	
-14.4	2.5	12.52						
	-62.5	-150	-62.5	56116	-16.1	-4.3	6.93	
-20.2	-1.4	12.53						
	-50	-150	-50	56138.2	-17.4	-4.4	6.94	
-29.4	-2.3	11.36						
	-37.5	-150	-37.5	56161.6	-16.5	-3.2	6.97	
-26.2	-5.2	11.29						
	-25	-150	-25	56235	-18.2	-3.9	7.06	
-34.4	-7.6	11.71						
	-12.5	-150	-12.5	56185.5	-19.9	-3.5	6.08	
-29.5	-11.6	10.74						
	0	-150	0	56190.7	-19.4	-4.3	6.93	
-39.3	-13.7	11.4						
	12.5	-150	12.5	55989.8	-20.4	-5.9	7.18	
-45.3	-12.6	12.89						

	25	-150	25	56094.7	-23	-5.5	7.12
-50.2	-13.6	12.62					
	37.5	-150	37.5	56137.8	-21.7	-6.4	6.98
-48.3	-15	11.92					
	50	-150	50	56105.8	-21.9	-6.5	7.13
-43.5	-13.2	11.65					
	62.5	-150	62.5	55983.1	-17.2	-6.5	7.06
-39.2	-12.9	11.95					
	75	-150	75	55890.5	-19.8	-7.1	7.23
-42.9	-12.2	12.26					
	87.5	-150	87.5	55711.2	-16.2	-6.5	7.29
-38	-11.7	12.11					
	100	-150	100	55817.2	-15.5	-3.1	6.84
-52.9	-15.7	12.2					
	112.5	-150	112.5	55898.3	-12.6	-3.7	6.87
-51.8	-16.5	11.53					
	line	-200					
	-200	-200	-200	56345.5	-17.7	-7	6.52
21.7	13.1	12.11					
	-187.5	-200	-187.5	56028.3	-16.4	-8.1	6.5
27	12.6	11.9					
	-175	-200	-175	56045.3	-11.8	-8.2	6.57
27.6	18.3	11.31					
	-162.5	-200	-162.5	56784.1	-11.2	-8.8	6.49
29.2	20.7	11					
	-150	-200	-150	56618.1	-13.3	-7.7	6.45
24.1	20.8	10.89					
	-137.5	-200	-137.5	56058.1	-13.8	-8.3	6.58
27.3	20.6	12.49					
	-125	-200	-125	56026.8	-12.7	-7.1	6.58
24.4	18.5	11.57					
	-112.5	-200	-112.5	56067.9	-16.9	-8.3	6.62
10	13.8	11.1					
	-100	-200	-100	56107.3	-14.8	-7.6	6.77
17.3	13.3	11.72					
	-87.5	-200	-87.5	56140.4	-17.4	-6.7	6.8
4.6	10.3	13.2					
	-75	-200	-75	56135.6	-15.1	-6.5	6.82
6.2	8.5	11.18					
	-62.5	-200	-62.5	56156.5	-15.7	-7.1	6.84
-8	4.5	12.75					
	-50	-200	-50	56193.6	-12.3	-8.1	6.71
-3.2	-2.8	12.4					
	-37.5	-200	-37.5	56230.7	-12.4	-8.5	6.66
-4.5	-5.8	12.3					
	-25	-200	-25	56352.4	-14.5	-9	6.91
-12.4	-9.8	12.32					
	-12.5	-200	-12.5	56242.4	-15.4	-9.400001	7.07
-16.7	-13	12.44					
	0	-200	0	56246.5	-16.1	-8.8	7.01
-22.1	-13.3	12.72					
	12.5	-200	12.5	56173.8	-13.9	-9.5	6.94
-15.4	-14.7	12.52					
	25	-200	25	56076.3	-15.6	-8.8	7.01

-18.8		-15	12.46					
	37.5	-200		37.5	55982.9	-19.2	-9.5	7.09
-30.1		-15.8	12.64					
	50	-200		50	55999.2	-15	-9.3	7.01
-29.9		-15.2	12.66					
	62.5	-200		62.5	55964.9	-13.4	-8.400001	7.1
-22.1		-15	12.49					
	75	-200		75	55604.9	-17.5	-8.6	7.37
-28.9		-14	12.66					
	87.5	-200		87.5	55650.7	-15.4	-8.5	7.13
-23.2		-13.4	12.71					
	100	-200		100	55780.4	-15.8	-9.5	7.07
-27.8		-12.5	12.73					
	112.5	-200		112.5	55834	-17.2	-8.3	7.28
-34.2		-14.7	12.69					
	125	-200		125	55896	-13.4	-7.2	7.12
-43.6		-18.5	12.98					
	137.5	-200		137.5	55926	-14.2	-7.6	7.21
-41		-17.7	12.63					
	150	-200		150	55947.1	-14.1	-6.8	7.34
-44.3		-17.8	12.99					
	162.5	-200		162.5	56022.1	-13.2	-6.4	7.47
-45.6		-18.5	13.25					
	175	-200		175	56053.6	-14.6	-6.9	7.37
-51.1		-22.9	13.56					
	187.5	-200		187.5	56182.3	-9.3	-6.6	7.6
-46.4		-22	12.99					
	200	-200		200	56026.6	-13.4	-6.8	7.62
-53		-22.2	13.34					
	line	-250						
	-200	-250		-200	56641	-14.2	-3	9.42
6.7		17.7	13.01					
	-187.5	-250		-187.5	56341	-14.1	-2.5	9.55
4.3		18	13.29					
	-175	-250		-175	56184.4	-13	-3.3	9.84
6		15	15.49					
	-162.5	-250		-162.5	56098.9	-13.8	-3.2	9.78
3.5		15.9	14.64					
	-150	-250		-150	56357.7	-14	-2.8	9.44
10.2		19.2	12.66					
	-137.5	-250		-137.5	56107.2	-12	-3	10.18
10.2		15.5	15.66					
	-125	-250		-125	55965.8	-15.4	-3.7	9.71
.8		17.5	13.85					
	-112.5	-250		-112.5	55921.3	-15.3	-3.5	9.599999
-1.9		18.6	13.57					
	-100	-250		-100	55968.8	-13.4	-3.3	9.48
4.6		18.8	13.54					
	-87.5	-250		-87.5	56052.9	-15.6	-3.8	9.52
-5.3		16.1	13.62					
	-75	-250		-75	56100.9	-15.6	-4	9.59
-8.8		12	13.96					
	-62.5	-250		-62.5	56180.1	-14.1	-4.5	9.849999
-12		5.3	14.13					

-19.8	-50	-250	-50	56205.5	-15.2	-5.7	9.87
	2.2	14.25					
-25.9	-37.5	-250	-37.5	56266.7	-15.6	-5.4	9.96
	-3.3	14.64					
-27.2	-25	-250	-25	56268.6	-15.9	-6.2	9.88
	-6.1	14.38					
-37.9	-12.5	-250	-12.5	56255.6	-18.7	-7.1	9.889999
	-12.7	13.97					
-35.8	0	-250	0	56148.6	-18.6	-6.1	9.82
	-11.9	13.79					
-33.5	12.5	-250	12.5	55812.4	-17.4	-5.5	9.86
	-11.5	13.4					
-36.2	25	-250	25	55913	-16.2	-5.2	10.13
	-11.7	14.59					
-37.2	37.5	-250	37.5	56105.7	-16.2	-5.3	10.26
	-11.5	14.91					
-36.1	50	-250	50	56286.6	-15.9	-5.4	10.15
	-12.4	14.45					
-34.5	62.5	-250	62.5	55691.5	-15.7	-5.4	10.3
	-14.4	16.12					
-33.8	75	-250	75	56031.2	-15.6	-4.7	10.08
	-10.4	14.29					
-37.6	87.5	-250	87.5	55660.1	-16	-5	9.66
	-12.2	13.16					
-42.3	100	-250	100	55744.8	-17.6	-6.2	9.79
	-13.5	13.32					
-43.5	112.5	-250	112.5	55626	-19.2	-5.7	9.349999
	-14.6	13.12					
-41.8	125	-250	125	55839.8	-17.2	-5.1	9.91
	-12	13.47					
-47.5	137.5	-250	137.5	56165.6	-16.2	-5.7	9.849999
	-13.8	13.8					
-51.4	150	-250	150	55762.4	-15.7	-5.7	9.76
	-15.1	13.93					
-59.3	162.5	-250	162.5	55945.6	-22.3	-8.400001	7.46
	-17.1	14.07					
-58.1	175	-250	175	55975.9	-19.6	-7.3	7.52
	-18.3	13.65					
-60.6	187.5	-250	187.5	56016	-20.9	-7	7.53
	-22.4	13.54					
-61.1	200	-250	200	56129.6	-18.7	-6.8	7.54
	-20.4	13.88					
18.1	line	-300					
	-175	-300	-175	55992	-9.2	-6	9.7
	13	14.98					
16.5	-162.5	-300	-162.5	55972.9	-9.6	-1	9.599999
	17.7	13.81					
15.6	-150	-300	-150	55916.4	-10.7	-1.4	9.09
	19.1	12.72					
13.2	-137.5	-300	-137.5	55894.2	-10.9	-1.2	9.4
	19.4	12.89					
14.9	-125	-300	-125	55899	-10.4	-1.6	9.11
	18.3	12.73					
	-112.5	-300	-112.5	55878	-10.1	-9	9.77

15.8	18.4	14.15						
	-100	-300	-100	55903.1	-10.8	-1.1	9.719999	
10.3	16.3	14.12						
	-87.5	-300	-87.5	55938.4	-11.6	-2.5	9.79	
7	12.9	14.48						
	-75	-300	-75	56027.6	-12.9	-4.1	10.4	
-3	7.4	16.25						
	-62.5	-300	-62.5	56013.9	-12.4	-3.6	9.88	
-2.4	5.4	13.9						
	-50	-300	-50	55922.4	-11.8	-4.1	9.9	
-5.7	2.6	13.06						
	-37.5	-300	-37.5	56485.6	-13	-4.2	10	
-8	.2	14.97						
	-25	-300	-25	55942.3	-11.8	-5	9.83	
-12.7	-5.6	12.85						
	-12.5	-300	-12.5	56051.5	-13.8	-6.3	10.01	
-20.3	-10.1	13.74						
	0	-300	0	56252.2	-14.1	-5.5	10.3	
-22.7	-11.1	14.34						
	12.5	-300	12.5	55620.2	-14.5	-5	10.6	
-19	-11.1	15.62						
	25	-300	25	55733.2	-15.5	-5.6	10.32	
-22.1	-11.7	16.28						
	37.5	-300	37.5	56186.7	-14.6	-6	10.22	
-24.8	-10.7	13.52						
	50	-300	50	55733.9	-13.6	-5.5	9.929999	
-25.2	-12.3	12.94						
	62.5	-300	62.5	55883.3	-13.2	-5.8	9.82	
-24	-13.6	12.83						
	75	-300	75	55712.4	-14.4	-4.9	10.32	
-26.3	-10.7	13.89						
	87.5	-300	87.5	56258.8	-14.1	-5.2	10.36	
-28.4	-12.3	13.55						
	100	-300	100	57613.3	-14.7	-4.9	10.25	
-24.2	-12.6	15						
	112.5	-300	112.5	55426.1	-14	-4.7	10.27	
-23.8	-12.6	14.62						
	125	-300	125	55668.4	-13.8	-5.4	10.39	
-25.8	-12.9	14.52						
	line	-350						
	-150	-350	-150	56043.7	-9.5	.6	9.58	
8.900001	12.8	18.98						
	-137.5	-350	-137.5	55999.8	-9.900001	.5	9.71	
7.7	12.4	19.3						
	-125	-350	-125	56075.3	-10.1	.8	9.58	
6.7	11.8	19.16						
	-112.5	-350	-112.5	55882.1	-10.7	.1	9.76	
5.3	11.9	19.45						
	-100	-350	-100	55873.9	-10.2	.6	9.8	
5.2	11	19.78						
	-87.5	-350	-87.5	55881.4	-11.2	-.5	9.83	
2.5	9.400001	20.11						
	-75	-350	-75	55888.7	-11.3	-1.1	9.88	
-1.5	5.9	20.33						

	-62.5	-350	-62.5	56539.4	-11.6	-2.3	9.76
-5.6	4.2	19.94					
	-50	-350	-50	56350.8	-12.8	-3.4	9.77
-8.6	1.4	19.7					
	-37.5	-350	-37.5	56134.4	-13.3	-3.6	9.86
-10.6	-3	19.84					
	-25	-350	-25	56129	-14.8	-4.8	9.87
-14.2	-2.5	19.49					
	-12.5	-350	-12.5	56301.7	-14.1	-4.9	9.92
-15.9	-5	18.9					
	0	-350	0	55813.1	-14.1	-4.5	9.969999
-15.3	-4.8	18.59					
	12.5	-350	12.5	56016.5	-14.7	-3.7	9.79
-19.2	-4.8	18.15					
	25	-350	25	56100	-13.5	-4.3	9.73
-20.3	-4.4	17.6					
	37.5	-350	37.5	56982	-13.7	-4.2	9.59
-21.8	-5.5	17.23					
	50	-350	50	56537.3	-14.6	-4.3	9.92
-21.3	-6.5	17.33					
	62.5	-350	62.5	55891	-13.7	-4	9.82
-20.5	-6.2	17.12					
	75	-350	75	55604	-15	-4	10.01
-22.7	-6.2	17					
	87.5	-350	87.5	55400.4	-13.9	-4.1	10.03
-24.9	-6.2	16.97					
	100	-350	100	55725.6	-14.6	-4.1	10.14
-24.7	-7.2	16.65					
	line	-400					
	-150	-400	-150	55843.3	-8.6	.7	9.54
7.4	13.8	19.21					
	-137.5	-400	-137.5	55831.9	-9.7	.5	9.37
5.6	13.5	19.53					
	-125	-400	-125	55864.1	-9.5	-.2	9.42
4.9	12.5	19.61					
	-112.5	-400	-112.5	55989.8	-9.7	-.3	9.36
4.5	12.5	19.51					
	-100	-400	-100	55996.5	-11.1	-.7	9.52
2.8	12.2	19.83					
	-87.5	-400	-87.5	56291.5	-11.6	-1.4	9.52
-6	10	19.71					
	-75	-400	-75	56274.2	-12.2	-1.5	9.45
-7	10.1	20.02					
	-62.5	-400	-62.5	56063.8	-11.7	-1.9	9.599999
-2.8	7.8	20.11					
	-50	-400	-50	55998.4	-12.1	-3.4	9.65
-7.5	3.9	21.3					
	-37.5	-400	-37.5	55953.4	-12.8	-3.5	10.19
-10.9	1.6	26.23					
	-25	-400	-25	55949.2	-14	-3.5	10.64
-14.5	-1.1	29.22					
	-12.5	-400	-12.5	56025.3	-13	-3.9	10.76
-15.1	-1.8	29.42					
	0	-400	0	56031	-13.7	-4.3	10.97

-16.6	-2.6	29.49						
	12.5	-400	12.5	56107	-14.9	-4.5	11.01	
-17.7	-2.8	29.01						
	25	-400	25	56249.9	-14.5	-4.7	11.11	
-19.5	-3.5	28.41						
	37.5	-400	37.5	56181	-15.5	-4.3	11.13	
-21.8	-3.6	28.39						
	50	-400	50	56172.1	-15.6	-3.8	11.13	
-22.2	-4.3	28.12						
	62.5	-400	62.5	56388.7	-15.9	-4	11.11	
-23	-4.5	27.98						
	line	-450						
	-175	-450	-175	55814.7	-8.3	3.4	9.15	
8.5	13.4	22.69						
	-162.5	-450	-162.5	55791.9	-8.1	3.2	9.22	
7.9	13.4	23.11						
	-150	-450	-150	55792.8	-8.1	4.2	9.099999	
6.9	13.7	23.34						
	-137.5	-450	-137.5	55798.3	-9	2.9	9.21	
5.7	12.7	23.6						
	-125	-450	-125	55899	-9.1	.9	9.19	
4.8	11.2	23.8						
	-112.5	-450	-112.5	55863.3	-9.8	1.7	9.309999	
3.2	10.7	23.85						
	-100	-450	-100	56303	-9.7	.7	9.3	
2.4	9.8	24.21						
	-87.5	-450	-87.5	56684.5	-10.3	-.1	9.469999	
.3	8.400001	24.66						
	-75	-450	-75	56199.1	-11	-.8	9.46	
-1.5	7	24.75						
	-62.5	-450	-62.5	56197.1	-11.7	-1.7	9.66	
-3.6	5.7	25.06						
	-50	-450	-50	55939.3	-11.7	-1.9	9.71	
-6.5	2.7	25.44						
	-37.5	-450	-37.5	55989	-12.4	-1.8	9.71	
-8.2	1.2	25.36						
	-25	-450	-25	55970	-12.6	-2	9.76	
-11.2	-1	25.63						
	-12.5	-450	-12.5	55892.7	-13.6	-2.1	9.88	
-13	-2.4	26.43						
	0	-450	0	55985.1	-12.8	-3.8	10.04	
-14.9	-2.7	26.78						
	12.5	-450	12.5	56104.4	-14.7	-3	10.2	
-17.1	-3.7	27.65						
	25	-450	25	56250.6	-14.2	-3.2	10.37	
-18.5	-3.5	27.72						
	37.5	-450	37.5	56628.5	-15.3	-3.7	10.32	
-19.4	-4.5	27.83						
	50	-450	50	56621.1	-15.2	-3.9	10.42	
-21.7	-4.2	27.93						
	62.5	-450	62.5	56799.9	-15.6	-4.6	10.54	
-21.6	-6	28.5						
	75	-450	75	56464.2	-16.4	-4.9	10.59	
-24.1	-8.1	28.36						

	line	-500					
	-175	-500	-175	55802.5	-9.6	.7	8.99
7.3	12.9	22.37					
	-162.5	-500	-162.5	55777.5	-9.6	1.5	8.96
5.9	12.3	22.51					
	-150	-500	-150	55761.1	-9.3	.9	9.05
4.3	12	22.41					
	-137.5	-500	-137.5	55744.9	-10.6	0	8.88
2.1	11.4	22.45					
	-125	-500	-125	55750.4	-11.2	-5	8.889999
1.1	11.3	22.26					
	-112.5	-500	-112.5	56294.6	-10.9	-1.8	8.97
.3	11.2	22.08					
	-100	-500	-100	55876.4	-10.7	-1.2	8.79
-2	10.6	22.18					
	-87.5	-500	-87.5	55914.1	-11.7	-1.5	8.9
-1.6	9.900001	21.96					
	-75	-500	-75	56573.5	-13.6	-2.3	8.639999
-3.5	9	21.82					
	-62.5	-500	-62.5	56433.5	-12.6	-3.4	8.91
-4.5	7.8	21.67					
	-50	-500	-50	56244.6	-13	-2.2	8.91
-5.7	6.4	21.53					
	-37.5	-500	-37.5	56220	-13.5	-4	8.889999
-8.5	4.1	21.57					
	-25	-500	-25	55868.1	-13.9	-4.4	8.99
-9.8	2.8	21.69					
	-12.5	-500	-12.5	55807.2	-17.2	-6.1	7.54
-12.5	.7	21.33					
	0	-500	0	55815.8	-18	-5.8	7.94
-14.6	-1.4	21.99					
	12.5	-500	12.5	55930.5	-19.4	-6.3	7.84
-16.7	-1.6	21.7					
	25	-500	25	55901.6	-19.1	-3.2	8.679999
-18.1	-3.6	21.68					
	37.5	-500	37.5	55978.4	-20	-6.8	7.57
-21.4	-4.5	21.34					
	50	-500	50	56093.1	-21.4	-6.9	7.64
-24.9	-6	21.53					
	62.5	-500	62.5	56322.6	-21.2	-9	7.58
-27.3	-8.7	21.21					
	75	-500	75	56354.2	-22.6	-8.900001	7.96
-27.6	-8	20.88					
	87.5	-500	87.5	55746.9	-22.3	-9.8	7.8
-29.3	-8.8	20.82					
	line	-550					
	-175	-550	-175	55768.5	-9.7	4.1	7.31
11.8	15.3	21.21					
	-162.5	-550	-162.5	55779.4	-9.6	3	7.28
9.5	13.2	21.9					
	-150	-550	-150	55787.4	-10.5	2.9	7.39
7.8	12.3	22.45					
	-137.5	-550	-137.5	55821.8	-10.3	3.1	7.69
5.7	12	23.19					

5.7	-125	12	-550	23.7	-125	55829.5	-9.400001	2.5	7.72
2.2	-112.5		-550	23.57	-112.5	55939.1	-10.4	1.8	7.77
.7	-100		-550	23.82	-100	55986.2	-11	2.1	7.78
0	-87.5		-550	23.8	-87.5	55985.9	-11.6	1	7.73
-1.4	9.400001		-550	24.03	-75	55889.8	-10.9	-1	7.93
-2.5	-75	7.8	-550	23.87	-62.5	56533.2	-10	-1.2	7.9
-4.8	-62.5	7.1	-550	23.8	-50	56170.8	-13.2	-1.3	7.82
-6.3	-50	5.8	-550	23.77	-37.5	56399.6	-12.5	-2.9	7.7
-9	-37.5	2.9	-550	23.58	-25	56099.5	-14.9	-3.3	7.63
-10.7	-25	1.3	-550	24.45	-12.5	55754.9	-14	-2.7	8.37
-12.9	-12.5	0	-550	24.23	0	55753.1	-15.6	-6.2	7.77
-15	0	-2.5	-550	24.19	12.5	55776.3	-16.7	-4.9	7.8
-16.4	12.5	-3.6	-550	23.97	25	55718.2	-17.6	-6.5	7.82
-18.2	25	-5	-550	24.62	37.5	55711.4	-17.8	-7	8.04
-21	37.5	-6.1	-550	24.66	50	55803.5	-19.6	-8.1	7.96
-25.4	50	-7.7	-550	24.31	62.5	55952.3	-20.6	-9.1	8.24
-27.8	62.5	-10	-550	23.95	75	56065.2	-22.3	-8.5	8.04
-30.2	75	-10.4	-550	22.22	87.5	56365.6	-20.1	-10.2	7.8

APPENDIX E

GEOPHYSICAL EQUIPMENT SPECIFICATIONS

OMNI PLUS VLF/Magnetometer System



Specifications*

Frequency Tuning Range	15 to 30 kHz, with bandwidth of 150 Hz; tuning range accommodates new Puerto Rico station at 28.5 kHz
Transmitting Stations Measured	Up to 3 stations can be automatically measured at any given grid location within frequency tuning range
Recorded VLF Magnetic Parameters	Total field strength, total dip, vertical quadrature (or alternately, horizontal amplitude)
Standard Memory Capacity	800 combined VLF magnetic and VLF electric measurements as well as gradiometer and magnetometer readings
Display	Custom designed, ruggedized liquid crystal display with built-in heater and an operating temperature range from -40°C to $+55^{\circ}\text{C}$. The display contains six numeric digits, decimal point, battery status monitor, signal strength status monitor and function descriptors.
RS232C Serial I/O Interface	2400 baud rate, 8 data bits, 2 stop bits, no parity
Test Mode	A. Diagnostic Testing (data and programmable memory) B. Self Test (hardware)
Sensor Head	Contains 3 orthogonally mounted coils with automatic tilt compensation
Operating Environmental Range	-40°C to $+55^{\circ}\text{C}$; 0 - 100% relative humidity; Weatherproof
Power Supply	Non-magnetic rechargeable sealed lead-acid 18V DC battery cartridge or belt; 18V DC disposable battery belt; 12V DC external power source for base station operation only.
Weights and Dimensions	
Instrument Console	2.8 kg, 128 x 150 x 250 mm
Sensor Head	2.1 kg, 130 dia. x 130 mm
VLF Electronics Module	1.1 kg, 40 x 150 x 250 mm
Lead Acid Battery Cartridge	1.8 kg, 235 x 105 x 90 mm
Lead Acid Battery Belt	1.8 kg, 540 x 100 x 40 mm
Disposable Battery Belt	1.2 kg, 540 x 100 x 40 mm

*Preliminary

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Cables: Instruments Toro
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EDA Instruments Inc.,
5151 Ward Road,
Wheat Ridge, Colorado
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(303) 422-9112

Printed In Canada

OMNIV 'Tie-Line' Magnetometer



Specifications

Dynamic Range	18,000 to 110,000 gammas. Roll-over display feature suppresses first significant digit upon exceeding 100,000 gammas.
Tuning Method	Tuning value is calculated accurately utilizing a specially developed tuning algorithm
Automatic Fine Tuning	± 15% relative to ambient field strength of last stored value
Display Resolution	0.1 gamma
Processing Sensitivity	± 0.02 gamma
Statistical Error Resolution	0.01 gamma
Absolute Accuracy	± 1 gamma at 50,000 gammas at 23°C ± 2 gamma over total temperature range
Standard Memory Capacity	
Total Field or Gradient	1,200 data blocks or sets of readings
Tie-Line Points	100 data blocks or sets of readings
Base Station	5,000 data blocks or sets of readings
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from -40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.
RS 232 Serial I/O Interface	2400 baud, 8 data bits, 2 stop bits, no parity
Gradient Tolerance	6,000 gammas per meter (field proven)
Test Mode	A. Diagnostic testing (data and programmable memory) B. Self Test (hardware)
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.
Gradient Sensors	0.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation available. Horizontal sensors optional.
Sensor Cable	Remains flexible in temperature range specified, includes strain-relief connector
Cycling Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	-40°C to +55°C; 0-100% relative humidity; weatherproof
Power Supply	Non-magnetic rechargeable sealed lead-acid battery cartridge or belt; rechargeable NiCad or Disposable battery cartridge or belt; or 12V DC power source option for base station operation.
Battery Cartridge/Belt Life	2,000 to 5,000 readings, for sealed lead acid power supply, depending upon ambient temperature and rate of readings
Weights and Dimensions	
Instrument Console Only	2.8 kg, 238 x 150 x 250mm
NiCad or Alkaline Battery Cartridge	1.2 kg, 235 x 105 x 90mm
NiCad or Alkaline Battery Belt	1.2 kg, 540 x 100 x 40mm
Lead-Acid Battery Cartridge	1.8 kg, 235 x 105 x 90mm
Lead-Acid Battery Belt	1.8 kg, 540 x 100 x 40mm
Sensor	1.2 kg, 56mm diameter x 200mm
Gradient Sensor	
(0.5 m separation-standard)	2.1 kg, 56mm diameter x 790mm
Gradient Sensor	
(1.0 m separation-optional)	2.2 kg, 56mm diameter x 1300mm
Standard System Complement	Instrument console; sensor; 3-meter cable, aluminum sectional sensor staff, power supply, harness assembly, operations manual.
Base Station Option	Standard system plus 30 meter cable
Gradiometer Option	Standard system plus 0.5 meter sensor

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SAMPLE MV/91 TH-3

QUARTZ-FELDSPAR PORPHYRY

Estimated mode

Phenocrysts

Plagioclase	21
Quartz	15
Chlorite)	4
Epidote)	

Groundmass

Plagioclase	50
Quartz	6
Chlorite	4
Rutile	trace

This is a leucocratic rock made up of phenocrysts of quartz and plagioclase in an even, microgranular groundmass composed predominantly of plagioclase.

The phenocrysts range in size from 0.2 - 4.0mm. The plagioclase is subhedral-euhedral in form, and commonly occurs as clumps. It is generally fresh, except for minor alteration to flecks of epidote.

The quartz ranges from anhedral to subhedral in form, and sometimes shows embayed outlines and groundmass inclusions. The quartz phenocrysts tend to be larger than the plagioclase. Minor mafic phenocrysts are now totally altered, and are represented by irregular clumps of felted chlorite and cryptocrystalline to granular epidote.

The phenocrysts are set, with random orientation, in an equigranular groundmass of grain size 20 - 100 microns, composed essentially of an interlocking mosaic aggregate of fresh, anhedral plagioclase. Indeterminate (but apparently minor) proportions of quartz occur sporadically intergrown, and there are scattered intergranular pockets of chlorite, and flecks of cryptocrystalline rutile.

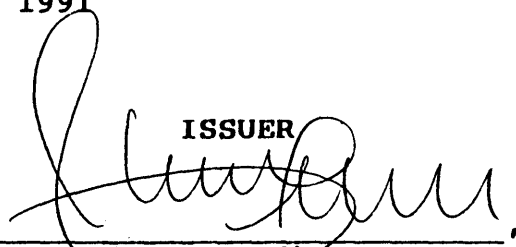
This rock is a typical quartz feldspar porphyry, of dacitic composition. It has the texture of a hypabyssal intrusive. It is notably fresh (except for alteration of the minor mafics).

CERTIFICATES

The foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Prospectus as required by the Securities Act and its regulations.

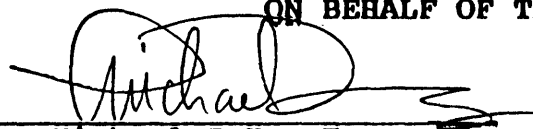
DATED: November 4 , 1991

ISSUER




Tom K.T. Cheng
President

ON BEHALF OF THE BOARD OF DIRECTORS




Michael I-Kuo Terng



Lian Thye Fong

PROMOTER



Michael I-Kuo Terng

AGENT

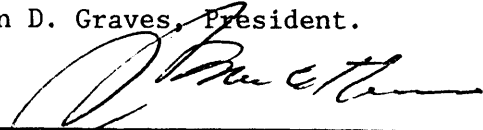
To the best of our knowledge, information and belief, the foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Prospectus as required by the Securities Act and its regulations.

DATED: November 4 , 1991

BRINK HUDSON & LEFEVER LTD.

Per: 

Brian D. Graves, President.



John L. Mathers, Vice-President.