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SUPERINTENDENT OF BROKERS AND VANCOUVER STOCK EXCHANGE

STATEMENT OF MATERIAL FACTS (#50/89)
EFFECTIVE DATE: SEPTEMBER 8, 1989
(Development Company)

BIG M PETROLEUM INC.
115 - 645 Fort Street, Victoria, British Columbia,
V8W 1G2 (604) 662-7985

NAME OF ISSUER, ADDRESS OF HEAD OFFICE AND TELEPHONE NUMBER

1500 - 885 West Georgia Street,
Vancouver, British Columbia
V6C 3H7

ADDRESS OF REGISTERED AND RECORDS OFFICES OF ISSUER

CENTRAL GUARANTY TRUST COMPANY
800 West Pender Street,
Vancouver, British Columbia
V6C 2V7

NAME AND ADDRESS OF REGISTRAR AND TRANSFER AGENT FOR ISSUER'S SECURITIES IN BRITISH COLUMBIA

OFFERING: **600,000 UNITS** - each Unit consisting of one common share without par value and two Series "A" share purchase warrants. Two Series "A" share purchase warrants will entitle the holder to purchase one common share.

	Estimated Price to the Public(1)	Estimated Agent's Commission	Estimated Net Proceeds to be Received by the Issuer(2)
Per Unit	$0.40	$0.03	$0.37
Total	$240,000.00	$18,000.00	$222,000.00

(1) The actual price to the public will be determined by the Issuer and the Agent in accordance with the rules of the Vancouver Stock Exchange.

(2) Before deduction of the costs of the issue estimated to be $25,000.00.

SOC/003253-03

Sept. 19/89

ADDITIONAL OFFERING

The Agent has agreed to purchase (the "Guarantee") any of the Units offered hereby which have not been sold at the conclusion of the Offering. Any Units acquired by the Agent under the Guarantee will be distributed under this Statement of Material Facts through the facilities of The Vancouver Stock Exchange at the market price at the time of sale.

THE SECURITIES OFFERED HEREUNDER ARE SPECULATIVE IN NATURE. INFORMATION CONCERNING THE RISKS INVOLVED MAY BE OBTAINED BY REFERENCE TO THIS DOCUMENT; FURTHER CLARIFICATION, IF REQUIRED, MAY BE SOUGHT FROM A BROKER.

NEITHER THE SUPERINTENDENT OF BROKERS NOR THE VANCOUVER STOCK EXCHANGE HAS IN ANY WAY PASSED UPON THE MERITS OF THE SECURITIES OFFERED HEREUNDER AND ANY REPRESENTATION TO THE CONTRARY IS AN OFFENCE.

AGENT

CANARIM INVESTMENT CORPORATION LTD.
Suite 2200 - 609 Granville Street
Vancouver, B.C., V7Y 1H2

E.	Reserve for working capital	$118,108.55
	TOTAL	$222,356.00

* See "Material Natural Resources Properties".

If the net proceeds from the Offering are greater than the estimated net proceeds because the actual price of the Offering exceeds the estimated price, the increase in net proceeds will be added to the working capital of the Issuer. Any proceeds realized by the Issuer from the exercise of the Series "A" Warrants or the Agent's Warrants will be added to the working capital of the Issuer. None of the proceeds of this Offering will be spent on additional acquisitions other than normal investigative expenses incurred in the ordinary course of business or on other work on the Issuer's properties, unless an acceptable engineering report is first filed and accepted by the Exchange in accordance with its rules and policies, other than acquisitions which are generally exempt by the Exchange pursuant to its policies.

3. MATERIAL NATURAL RESOURCE PROPERTIES

(1) Summary of Material Mining Properties

Group I Properties for which regulatory approval has been obtained under this Statement of Material Facts.

Group II Presently held properties which are currently producing or being explored, or upon which exploration is planned within the next year.

Group III Other presently held properties upon which the Issuer's acquisition and exploration costs to date exceed $100,000.

Group	Property Name	Issuer's Acquisition and Exploration Costs to Date	Shares Issued to Date	Planned Expenditure of Funds Available Upon Completion of the Offering
I	NIL			
II	Win, Ret and Rob Claims	5,000	40,000	17,500.00
III	Ian 1-4	$114,897	100,000	$50,000.00

Group I Properties for which regulatory approval has been obtained under this Statement of Material Facts.

NIL

Group II Presently held properties which are currently producing or being explored, or upon which exploration is planned with the next year.

ISKUT GOLD PROPERTY

Interest Acquired

By agreement dated July 13, 1988, as amended September 15, 1988, the Issuer acquired the right to purchase from Tungco Resources Corporation ("Tungco"), of 115 - 645 Fort Street, Victoria, British Columbia, an undivided 10% interest in and to the following mineral claims which are located in the Iskut River area, Liard Mining Division, British Columbia:

Name of Claim	Number of Units	Record Number	Expiry Date
ROB 18	20	3839	December 22, 1989
WIN 09	09	3948	March 10, 1990
WIN 10	04	3949	March 10, 1990
WIN 11	15	3950	March 10, 1990
WIN 12	20	3951	March 10, 1990
RET 01	20	3974	March 10, 1990

The Issuer will acquire its 10% interest in the claims by issuing 40,000 shares to Tungco at a deemed price of $0.40 per share (issued) and by paying 10% of the costs of the exploration/development program to be carried out on the claims by Tungco. The program is to cost at least $225,000 and is to consist of three phases: the first phase to cost at least $50,000, the second to cost at least $75,000 and the third to cost at least $100,000. The Issuer will therefore pay a minimum of $22,500 of these costs. The payments are to be made by the earlier of the date of regulatory approval of completion of each of the phases and October 31 in each of 1989, 1990 and 1991. The Issuer paid $5,000 to Tungco for the Issuer's portion of Phase I payment on March 10, 1989 and therefore must pay a minimum of $17,500 upon completion of the second and third phases. The Issuer has only provided for a two phase work program at this time.

By agreement dated July 11, 1988, as amended September 15, 1988, as amended June 6, 1989 between Iskut Gold Syndicate of 1140 - 625 Howe Street, Vancouver, British Columbia and Tungco, Tungco acquired an option to earn a 100% interest in the claims by

paying $112,000 (paid) and by issuing 200,000 shares, 50,000 upon regulatory approval of the agreement (issued) and the other 150,000 in blocks of 50,000 shares each upon approval of the completion of each of the three phases of the exploration/development program.

Kevin Whelan, Jason Gilbert and Colleen Sue Davis, directors and/or officers of the Issuer are also directors and/or officers of Tungco.

The Report

The WIN 9-12, RET 1 and ROB 18 mineral claims (the "Claims") are the subject of a Summary Report (the "Report") prepared for Tungco by Equity Engineering Ltd. dated July, 1988. The following information on the claims is taken from and is based in reliance upon the Report, which is available for inspection at the registered and records office of the Issuer as set out in Item 9(v) of this Statement of Material Facts.

Location, Access and Terrain

The Claims lie on the northern slopes of the Iskut River valley in the Coast Range Mountains, approximately 120 kilometers northwest of Stewart, British Columbia, and 70 kilometers east of Wrangell, Alaska. Access to the property is by helicopter from the Bronson Creek gravel air strip, located approximately six kilometers to the south.

The ROB 18 claim straddles the Twin River approximately three kilometers above its confluence with the Iskut River. The WIN 9-12 and RET 1 claims extend easterly from the ROB 18 claim, covering the southern and southwestern flanks of an unnamed mountain which rises to the north from the Iskut River valley. Topography is rugged, typical of mountainous and glaciated terrain, with elevations ranging from 120 meters above sea level on the Twin River to over 1600 meters on the north boundary of the WIN 12 and the east boundary of RET I. A glacier descends to the 1400 meter elevation on the RET 1 claim and the Twin Glacier reaches the 400 meter contour in the Twin Valley three kilometers north of the property. Outcrop exposure should be good throughout the property, but may be partially masked by alluvial and glacial deposits in the Twin Valley and by the heavy vegetation which occurs below treeline.

Previous Work on the Claims

Although the area in which the claims are located has been the subject of much recent work, no work is reported before 1986 on ground currently covered by the Claims. The ROB 18 claim was staked in December 1986 by the Northwest Gold Syndicate after,

Skyline announced very favourable results from that season's drilling and underground development program on their Stonehouse Gold deposit. The WIN 9-12 and RET 1 claims were added in March 1987. The Northwest Gold Syndicate commissioned an airborne geophysical survey, the production of an orthophoto and an air photo interpretation of structure and geology for the property in early 1988. These have been completed; however, only preliminary results, without interpretation, are currently available for the airborne geophysical surveys.

The Claims are at an early stage of exploration. To date, they have not been geologically mapped or sampled. Airborne geophysical data is preliminary and incomplete. No prospecting has been carried out and no mineralization has yet been found on these claims. The geology underlying the Claims appear similar to that which hosts the SNIP and Stonehouse Gold deposits approximately to kilometers to the south. The favourable Triassic volcano-sedimentary host rocks have been mapped to within 800 meters of the property boundary and geophysical data suggest that they may occur on the property. Mineralization similar to that of the SNIP and Stonehouse Gold deposits has been reported three kilometers south of the property on the Iskut 2 claim and three kilometers north of the property in the Twin Glacier moraine. Potential exists for similar mineralization on the Claims.

There is no known reserves of ore on the property and the claims.

Recommended Exploration Program

A two phase exploration program is recommended for the Claims. The first phase is a reconnaissance-style exploration program designed to delineate areas of interest for further, more intensive exploration. It will consist of heavy mineral stream sediment sampling and analysis for gold, silver, copper, lead, zinc and arsenic; geological mapping and prospecting over the entire property, using an orthophoto contour map at a scale of 1:5,000 for topographical control; and rock chip sampling from zones of favourable alteration and mineralization. Phase two will proceed only if the results from phase one so warrant. It will consist of expansion of geophysical and soil geochemical coverage, hand-trenching of mineralized zones and several short diamond drill holes, at an estimated cost of $150,000.

Group III Other presently held properties upon which the Issuer's acquisition and exploration costs to date exceed $100,000.

THE IAN CLAIMS

Interest Acquired

By an agreement dated January 27, 1988, (the "Assignment Agreement") between the Issuer and Ashburton Oil Ltd. ("Ashburton"), of 100 - 200 Granville Street, Vancouver, British Columbia, the Issuer acquired all of Ashburton's right, title and interest in that certain agreement dated January 12, 1987, as amended January 27, 1988, as amended March 16, 1988, as amended September 15, 1988, as amended June 6, 1989, (the "Original Agreement") between Ashburton, Western Informational Services Ltd., Robin T. Forshaw, Ian Hagemoen, Reg Davis and Stuart J. Cameron, as Members for the time being carrying on business under the style and name of North West Gold Syndicate, ("North West") in four mineral claims located in the Iskut River Area, Liard Mining Division, British Columbia described as follows:

Name of Claim	Number of Units	Record Number	Expiry Date
Ian #1	20	3730	December 5, 1992
Ian #2	20	3731	December 5, 1992
Ian #3	20	3732	December 5, 1992
Ian #4	20	3733	December 5, 1992

In consideration for the assignment the Issuer paid $49,500.00 and issued 100,000 shares, at a deemed price of $0.40 per share to Ashburton. Kevin Whelan, the President of the Issuer, was a former director of Ashburton.

The Issuer will acquire Ashburton's 100% interest in the claims pursuant to the terms of the Original Agreement, as follows:

(a) payment of $40,000 to North West (paid by Ashburton);

(b) issuance of 200,000 shares to North West as follows:

  (i) 50,000 shares upon approval (issued by Ashburton);
  (ii) 50,000 shares of the Issuer upon completion of each phase of a three phase work program on the property. Each phase subject to regulatory approval.

(c)the following minimum expenditures:

Phase	Minimum Expenditure	Completion Date
I	$ 65,000	June 30, 1988 *
II	$ 100,000	June 30, 1990 **
III	$ 150,000	June 30, 1991 ***

* To January 27, 1988, Ashburton spent $59,800.00 on the first phase of the exploration/development program. By June 30, 1988, the Issuer had spent an additional $9,934 on the claims, and so had completed Phase I of the exploration/development program.

** To April 30, 1989, the Issuer has spent a total of $65,397 on exploring the claims, so that it needs only to spend an additional $35,000 to complete Phase II of the exploration/development program.

*** The Issuer does not have the financial resources at this time to fully fund its contractural obligations on Phase III of the exploration/development program. The Issuer's ability to continue exploration and development is dependent on its ability to raise funds through additional financings. Should it be unsuccessful in this regard, the property may be lost.

The Report

The following information is summarized from the report on the claims dated May 8, 1989, revised June 20, 1989 prepared by Keewatin Engineering Inc. of Vancouver, British Columbia, a copy of which is available for inspection at the head office and at the registered office of the Issuer during normal business hours for a period of thirty days from the date of this Statement of Material Facts.

Introduction

The Big M property is located within the Iskut Gold Camp which hosts the mesothermal shear/vein Snip and Skyline deposts. The Snip depost presently has ore reserves of 1.57 million tons grading 0.64 oz/t gold. The Big M property is situated approximately 8 km northeast of the Snip deposit and is partly underlain by similar stratigraphy. The Waratah property, adjoining the Big M property to the south, also hosts shear/vein mineralizaiton.

During May of 1989, Keewatin Engineering Inc. was engaged by Big M Petroleum Inc. for the purpose of reviewing data from its Big M Project. These data consist of information gathered by Hi-Tec Resource Management Ltd. during 1987 and by Equity

Engineering Ltd. during 1988. For the most part, this previous work involved prospecting and soil sampling along widely spaced contour lines. The details of this work is summarized as follows:

Summary of 1987 and 1988 Work

	1987	1988	Total
Orthophoto	--	1:10,000 (10 m contours)	1:10,000 over property
Helipad Construction	1	5	6
Geological Mapping	1:5,000	1:10,000	covers part of the property
Contour Soil Sampling	--	579	579
Rock Sampling (grabs)	36	21	57
Silt Sampling	18	14	32
Heavy Mineral Sampling	2	--	2

The plan which is incorporated in this report summarizes the anomalous geochemical results from the two field seasons. Only Equity's geological base was used for this compilation. For details of location, regional/property geology and for the history of exploration, please refer to Hi-Tec's 1987 report and Equity's 1988 report.

Property Status

Records of the British Columbia Minister of Energy, Mines and Petroleum Resources indicate that the Big M property consists of the Ian 1-4 mineral claims (80 units) which are owned by Ian Hagemoen. These claims are more fully described below:

Claim Name	Record No.	No. of Units	Expiry Record	Expiry Year
Ian 1	3730	20	05/12/86	1992
Ian 2	3731	20	05/12/86	1992
Ian 3	3732	20	05/12/86	1992
Ian 4	3733	20	05/12/86	1992

These claims are under option to Big M Petroleum Inc.

Geology

Reconnaissance geological mapping by Equity Engineering has outlined a wide section of sediments wedged within mafic to felsic volcanics. This Triassic sequence has been dissected by numerous lineaments/structures with various orientations. The abundant orthoclase porphyry intrusions and several small sections of Permian limestone are probably related to some of these structures.

Mineralization and Rock Sample Results

The limited amount of rock sampling and geological mapping indicates the presence of shear/zone and skarn-type mineralization.

The most prominent discovery consists of a shear zone which contains pyrite, chalcopyrite, sphalerite and quartz, and is found in the northeast corner of the Ian 4 claim. This shear (091°/55°N), which was traced along a strike length of 15 metres, carries significant values in copper, zinc and silver (see grab samples MR11 and 12, Plan 1). A nearby float sample, #245453, returned significant (2,800 ppb) gold, but its source is probably off the claims.

To the southwest, a grab sample, GR17, from a pyritic skarn returned enhanced values in zinc, copper and silver.

In the northeast corner of the Ian 2 claim, a grab sample, GR7, from a pyrite-quartz-epidote rich, oxidized mafic volcanic returned an elevated (375 ppb) gold value.

Equity also reported two areas of extensive pyritization on the west side of the Verrett River. One is along the sediment-volcanic contact on L335W. The other is found as an area of extensive, angular float of silicified and highly pyritic agglomerate. Initial grab samples returned low base and precious metal values.

Geochemistry

Contour Soil and Silt Sampling Results

The anomaly levels used by Equity Engineering were raised in an effort to quickly pick out more obvious areas of interest and/or trends. These elevated anomaly levels were used for both the soil and silt results. Antimony results were not used in this exercise.

Summary of 1988 Contour Soil Results

Area	No. of Samples - Anomalous Levels					
	No. 60ppbAu	No. 2.0ppmAg	No. 300ppmZn	No. 50ppmPb	No. 300ppmCu	No. 100ppmAs
East Side	13	3	14	10	--	9
West Side	3	3	5	3	3	9
Totals:	**16**	**6**	**19**	**13**	**3**	**9**

East Side of the Verrett River

The geochemical results indicate that seven of the anomalous gold soil values are located within the Triassic sedimentary package. A number of multi-element anomalies are also found in this area. An apparent spatial association of the gold with structures and the orthoclase porphyry bodies is evident. Gold anomalies also appear to be locally associated with enhanced arsenic levels. Maximum values for the analyzed elements include: 2,170 ppb Au, 2.7 ppm Ag, 850 ppm As, 1180 ppm Pb and 820 ppm Zn. The remaining six gold soil anomalies are found within the mafic agglomerates. All six appear to lie in close proximity to topographic lineaments and/or dyking.

Five of the silt samples draining this area also surpass the threshold for gold.

West Side of the Verrett River

The majority of the anomalous soils appear to lie within or near the main Triassic felspar porphyry flow sequence. The remaining two anomalies (Pb ± Ag, Zn) are found in close proximity to the agglomerate - limestone conglomerate contact, to the east. Anomalous results range up to 125 ppb Au, 7.7 ppm Ag, 2,750 ppm Cu, 110 ppm Pb and 1,200 ppm Zn.

Summary of Conclusions

The preliminary contour soil survey results indicate numerous areas with elevated to highly anomalous precious (up to 2,170 ppb Au) and/or base metal values. The 200 to 600 m gap between contour lines necessitates infilling with additional contour lines in order to fully evaluate the claims' potential.

The limited rock sampling on the property has, to date, failed to explain the soil survey anomalies. Preliminary mapping has indicated that the property is underlain by a number of

favourable host units. The most promising is an interbedded sedimentary (Triassic) package which is analogous to the host of the Snip deposit. The others include the limestone (Permian) and mafic volcanic (Triassic) units which host gold mineralization on the McLymont and Waratah properties, respectfully. Initial mapping has also revealed shear/vein and skarn-types of mineralization.

The Big M property's potential to host gold and/or polymetallic mineralization, as indicated by the preliminary soil survey results, is relatively untouched. The presence of several favourable host rock assemblages, extensive structural preparation and numerous orthoclase porphyry intrusions all emphasize the property's potential to host significant mineralization.

Recommendations

1. At least ten helipads should be constructed to facilitate efficient access.

2. Contour soil lines should be completed to infill the 1988 coverage. These should include at least seven lines (425 m, 475 m, 525 m, 625 m, 675 m and 725 m elevations) on the east side of the Verrett River and five lines (450 m, 650 m, 680 m, 760 m and 825 m elevations) on the west side.

3. Detailed soil samples should be collected to cover and delineate the anomalies outlines in 1988.

4. Prospecting, geological mapping and chip sampling is required to complete the initial evaluation of the property and to further define possible targets.

5. A provision is made for trenching, detailed mapping and chip sampling of targets to be located as a result of the above-recommended programs.

1989 Proposed Budget - Completion of Phase II

Pre-Field

Logistics, materials and crew assembly, permitting $ 2,000

Field Program

Personnel

Project Supervision - 1 day @ $425/day - 425
Senior Geologist - 2 days @ $400/day - 800

Project Geologist - 5 days @ $350/day - 1,750
Field Assistants - 4 x 3 days @ $250/day - 3,000
Geochemist - 2 days @ $400/day - 800
Prospector - 3 x 5 days @ $275/day - 4,125
Camp Manager (Split) - 1 day @ $300/day - 300
Cook (Split) - 2 days @ $225/day - 450
$11,650

Camp Support

Food &
Accommodation - 56 man days @ $50/day - $2,800
(includes helicopter crew & linecutters)
Travel & Accommodation - 725
Fuel - 1,250
Expediting & Freight - 625
Communications (radios, telephone, fax) - 500
Camp Maintenance & Supplies - 1,500
Generator - 250
$7,650

Transportation

Fixed Wing (mobilization/demobilization) - $2,000
Service Flights - 2,000
Helicopter - 13 hrs. @ $600/hr - 7,800
$11,800

Geochemical Analyses

Soils - 500 soils @ $14 each - 7,000
Rocks - 40 rocks @ $15 each - 600
$ 7,600

Helipad Building - 3 @ $1,000/helipad - $ 3,000

Total:	**$43,700**
Contingency Allowance	4,300
Post-Field	2,000
GRAND TOTAL:	**$50,000**

The report of Keewatin Engineering Inc. further sets out the proposed budget for completion of Phase III of the exploration/development program at an estimated $150,000.

There are no known reserves of ore on the property.

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. Mineral exploration and development are highly speculative and involve risks and, while the rewards if an ore body is discovered can be substantial, few properties explored are ultimately placed into commercial production.

No assurances can be given that any of the properties in which the Issuer has an interest are capable of production of minerals in commercial quantities. Futhermore, the Issuer does not have the financial resources at this time to fully fund Phase III exploration expenditures planned for the Ian 1-4 claims. No assurances can be given that the Issuer will have sufficient financial resources to fulfill its contractural obligations or to bring a mine into production. Should the Issuer be unsuccessful in this regard, the property of the Issuer may be lost.

The Issuer presently has no producing properties and therefore its ultimate success will depend on its ability to generate cash flow from producing properties. Accordingly, the Issuer is not in a position to pay dividends nor has it any present plans to declare or pay dividends. The Issuer's activities are directed to the search for ore deposits and the development thereof. There is aggressive competition within the industry for the discovery and acquisition of properties considered to have commercial potential, and while the Issuer intends to use highly trained and experienced personnel and sophisticated techniques, such techniques are generally available to its competitors. The Issuer will compete with other interests, many of which have greater financial resources than the Issuer, for the opportunity to participate in promising exploration projects. Significant capital investment is required to achieve commercial production from successful exploration efforts.

Locating mineral deposits depends on a number of factors, not the least of which is the technical skill of the exploration personnel involved. Whether a mineral deposit once discovered will be commercially viable also depends on a number of factors some of which are particular attributes of the deposit, such as size, grade, and proximity to infrastructure, as well as metal prices, which are highly cyclical. The prices of gold and silver have in recent years been subject to extreme fluctuations. Many mineral prices are currently depressed, reflecting the abundance of minerals and current state of the economies of the industrialized nations. Most of the above factors are beyond the control of the Issuer.

SUMMARY REPORT OF THE

1987 AND 1988 FIELDWORK ON THE

BIG M PROPERTY

NTS 104B/10W, 11E
Latitude 56°43'N
Longitude 130°59'W
Liard Mining Division

Prepared For

BIG M PETROLEUM INC.

Prepared By

Rex Pegg, BASc., P.Eng.
KEEWATIN ENGINEERING INC.
#800 - 900 West Hastings Street
Vancouver, B.C.
V6C 1E5

May 8, 1989
Revised June 20, 1989

BIG M PETROLEUM INC.

NOTES TO FINANCIAL STATEMENTS

JANUARY 31, 1989

NOTE 4: Share Capital - (continued)

f) The following warrants are outstanding at January 31, 1989:

	Number of Warrants	Exercise Price	Exercise Ratio	Expiry Date
"Flow-through" non-transferable warrants (Note 4d)	72,000	$0.52	2:1	July 18, 1989
Series "D" non-transferable warrants	400,000	$0.25 or $0.29	1:1	December 21, 1989 December 21, 1990

NOTE 5: Related Party Transactions

During the year the Company entered into the following related party transactions:

a) Incurred $11,000 of rent to a corporation with a common director.

b) Incurred $5,000 of secretarial fees to individuals related to a director of the Company.

c) The mineral claim interest, as described in Note 2d, was acquired from a related corporation.

NOTE 6: Remuneration of Directors and Senior Officers

a) During the year the Company paid a total management fees of $23,250 to a director.

b) During the year the Company paid administrative fees of $10,750 to a former director.

c) During the year the Company paid a director a fee of $750.

NOTE 7: Other Items

The Company is not entitled to the tax benefit of $40,238 worth of exploration expenditures incurred on its properties as this amount has been financed by way of flow-through shares.

The Company will be required to renounce any exploration expenditures on its properties finance by way of flow-through warrants (Notes 4d and 4f).

TABLE OF CONTENTS

LIST OF TABLES

LIST OF PLANS

INTRODUCTION

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PROPERTY STATUS

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MINERALIZATION AND ROCK SAMPLE RESULTS

The limited amount of rock sampling and geological mapping indicates the presence of shear/vein and skarn-type mineralization.

The most prominent discovery consists of a shear zone which contains pyrite, chalcopyrite, sphalerite and quartz, and is found in the northeast corner of the Ian 4 claim. This shear ($091^{o}/55^{o}N$), which was traced along a strike length of 15 metres, carries significant values in copper, zinc and silver (see grab samples MR11 & 12, Plan 1). A nearby float sample (see #245453, Plan 1) returned significant (2,800 ppb) gold, but it's source is probably off the claims.

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GEOCHEMISTRY

Contour Soil and Silt Sampling Results (see Table 2 and Plan 1)

The anomaly levels used by Equity Engineering were raised in an effort to quickly pick out more obvious areas of interest and/or trends. These elevated anomaly levels were used for both the soil and silt results. Antimony results were not used in this exercise.

East Side of the Verrett River

The geochemical results indicate that seven of the anomalous gold soil values are located within the Triassic sedimentary package. A number of multi-element anomalies are also found in this area. An apparent spatial association of the gold with structures and the orthoclase porphyry bodies is evident. Gold anomalies also appear to be locally associated with enhanced arsenic levels. Maximum values for the analyzed elements include: 2,170 ppb Au, 2.7 ppm Ag, 850 ppm As, 1180 ppm Pb and 820 ppm Zn. The remaining six gold soil anomalies are found within the mafic agglomerates. All six appear to lie in close proximity to topographic lineaments and/or dyking.

Five of the silt samples draining this area also surpass the threshold for gold.

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The majority of the anomalous soils appear to lie within or near the main Triassic feldspar porphyry flow sequence. The remaining two anomalies (Pb $\pm$ Ag, Zn) are found in close proximity to the agglomerate - limestone conglomerate contact, to the east. Anomalous results range up to 125 ppb Au, 7.7 ppm Ag, 2,750 ppm Cu, 110 ppm Pb and 1,200 ppm Zn.

SUMMARY OF CONCLUSIONS

The preliminary contour soil survey results indicate numerous areas with elevated to highly anomalous precious (up to 2,170 ppb Au) and/or base metal values. The 200 to 600 m gap between contour lines necessitates infilling with additional contour lines in order to fully evaluate the claims' potential.

The limited rock sampling on the property has, to date, failed to explain the soil survey anomalies. Preliminary mapping has indicated that the property is underlain by a number of favourable host units. The most promising is an interbedded sedimentary (Triassic) package which is analogous to the host of the Snip deposit. The others include the limestone (Permian) and mafic volcanic (Triassic) units which host gold mineralization on the McLymont and Waratah properties, respectfully. Initial mapping has also revealed shear/vein and skarn-types of mineralization.

The Big M property's potential to host gold and/or polymetallic mineralization, as indicated by the preliminary soil survey results, is relatively untouched. The presence of several favourable host rock assemblages, extensive structural preparation and numerous orthoclase porphyry intrusions all emphasize the property's potential to host significant mineralization.

RECOMMENDATIONS

1) At least ten helipads should be constructed to facilitate efficient access.

2) Contour soil lines should be completed to infill the 1988 coverage. These should include at least seven lines (425 m, 475 m, 525 m, 625 m, 675 m and 725 m elevations) on the east side of the Verrett River and five lines (450 m, 600 m, 680 m, 760 m and 825 m elevations) on the west side.

3) Detailed soil samples should be collected to cover and delineate the anomalies outlined in 1988.

4) Prospecting, geological mapping and chip sampling is required to complete the initial evaluation of the property and to further define possible targets.

5) A provision is made for trenching, detailed mapping and chip sampling of targets to be located as a result of the above-recommended programs.

Respectfully submitted,

KEEWATIN ENGINEERING INC.

Rex Pegg, BASc., P.Eng.

TABLE 1: Summary of 1987 and 1988 Work

	1987	1988	Total
Orthophoto	--	1:10,000 (10 m contours)	1:10,000 over property
Helipad Construction	1	5	6
Geological Mapping	1:5,000	1:10,000	covers part of the property
Contour Soil Sampling	--	579	579
Rock Sampling (grabs)	36	21	57
Silt Sampling	18	14	32
Heavy Mineral Sampling	2	--	2

TABLE 2: Summary of 1988 Contour Soil Results

Area	No. of Samples - Anomalous Levels					
	No. ≥60ppbAu	No. ≥2.0ppmAg	No. ≥300ppmZn	No. ≥50ppmPb	No. ≥300ppmCu	No. ≥100ppmAs
East Side	13	3	14	10	--	9
West Side	3	3	5	3	3	9
Totals:	**16**	**6**	**19**	**13**	**3**	**9**

BIG M - 1989 PROPOSED BUDGET - COMPLETION OF PHASE 2

Pre-Field

Logistics, material and crew assembly, permitting			$ 2,000

Field Program

Personnel

Project Supervision	1 days @ $425/day	$ 425	
Senior Geologist	2 days @ $400/day	800	
Project Geologist	5 days @ $350/day	1,750	
Field Assistants	4 x 3 days @ $250/day	3,000	
Geochemist	2 days @ $400/day	800	
Prospector	3 x 5 days @ $275/day	4,125	
Camp Manager (Split)	1 days @ $300/day	300	
Cook (Split)	2 days @ $225/day	450	
			$ 11,650

Camp Support

Food & Accomodation (includes helicopter crew & linecutters)	56 man days @ $ 50/day	$2,800	
Travel & Accomodation		725	
Fuel		1,250	
Expediting & Freight		625	
Communications (radios, telephone, fax)		500	
Camp Maintenance & Supplies		1,500	
Generator		250	
			$ 7,650

Transportation

Fixed Wing (mobilization)		$2,000	
Service Flights		2,000	
Helicopter	13 hrs @ $600/hr	7,800	
			$ 11,800

Geochemical Analyses

Soils	500 soils @ $14 each	$7,000	
Rocks	40 rocks @ $15 each	600	
			$ 7,600

Helipad Building - 3 @ $1,000/helipad $ 3,000

	Total:	**$ 43,700**
Contingency Allowance		4,300
Post-Field		2,000
	GRAND TOTAL:	**$ 50,000**

BIG M - 1989 PROPOSED BUDGET - PHASE 3
(contingent on favourable results from Phase 2) RR.

Pre-Field			
Logistics, material and crew assembly, permitting			$ 2,000
Field Program			
Personnel			
Project Supervision	4 days @ $425/day	$ 1,700	
Senior Geologist	8 days @ $400/day	3,200	
Project Geologist	15 days @ $350/day	5,250	
Field Assistants	4 x 11 days @ $250/day	11,000	
Geochemist	3 days @ $400/day	1,200	
Prospector	3 x 15 days @ $275/day	12,375	
Camp Manager (Split)	4 days @ $300/day	1,200	
Cook (Split)	8 days @ $225/day	1,800	
			$ 37,725
Camp Support			
Food & Accommodation (includes helicopter crew & linecutters)	169 man days @ $ 50/day	$ 8,450	
Travel & Accomodation		2,275	
Fuel		3,750	
Expediting & Freight		1,875	
Communications (radios, telephone, fax)		1,500	
Camp Maintenance & Supplies		4,500	
Generator		750	
			$ 23,100
Transportation			
Fixed Wing (demobilization)		$ 2,000	
Service Flights		6,000	
Helicopter	41 hrs @ $600/hr	24,600	
			$ 32,600
Geochemical Analyses			
Soils	1,500 soils @ $14 each	$21,000	
Rocks	110 rocks @ $15 each	1,650	
			$ 22,650
Helipad Building - 7 @ $1,000/helipad		$ 7,000	
Trenching	7 days @ $1,000/day		$ 7,000
		Total:	**$132,075**
Contingency Allowance			13,755
Post-Field			4,170
		GRAND TOTAL:	**$150,000**

STATEMENT OF QUALIFICATIONS

I, REX STEPHEN PEGG, of #1 - 410 Mahon Avenue in the District of North Vancouver in the Province of British Columbia, do hereby certify that:

1) I am a graduate of the University of Toronto, BA.Sc. (1976) in Geological Engineering (Exploration option) and have practiced my profession continuously since graduation.

2) I have over 13 years of experience in exploration for base and precious metals in the Canadian Cordillera.

3) I am a member in good standing of the Association of Professional Engineers of British Columbia.

4) I am an independent consulting geologist with an office at #1-410 Mahon Avenue, North Vancouver, British Columbia.

5) I am presently under contract to Keewatin Engineering Inc. with offices at Suite 800 - 900 West Hastings Street, Vancouver, British Columbia.

6) I am the author of the report entitled "Summary Report on the 1987 and 1988 Fieldwork on the Big M Property, Liard Mining Division, British Columbia", dated May 8, 1989 and revised June 20, 1989.

7) I have not visited the property because of winter conditions at the time of writing, but I am familiar with the regional geology and geology of nearby properties.

8) I do not own or expect to receive any interest (direct, indirect or contingent) in the property described herein nor in the securities of Big M Petroleum Inc., in respect of services rendered in the preparation of this report.

Dated at Vancouver, British Columbia this 20th day of June, 1989.

Respectfully submitted,

Rex S. Pegg, BA.Sc., P.Eng.

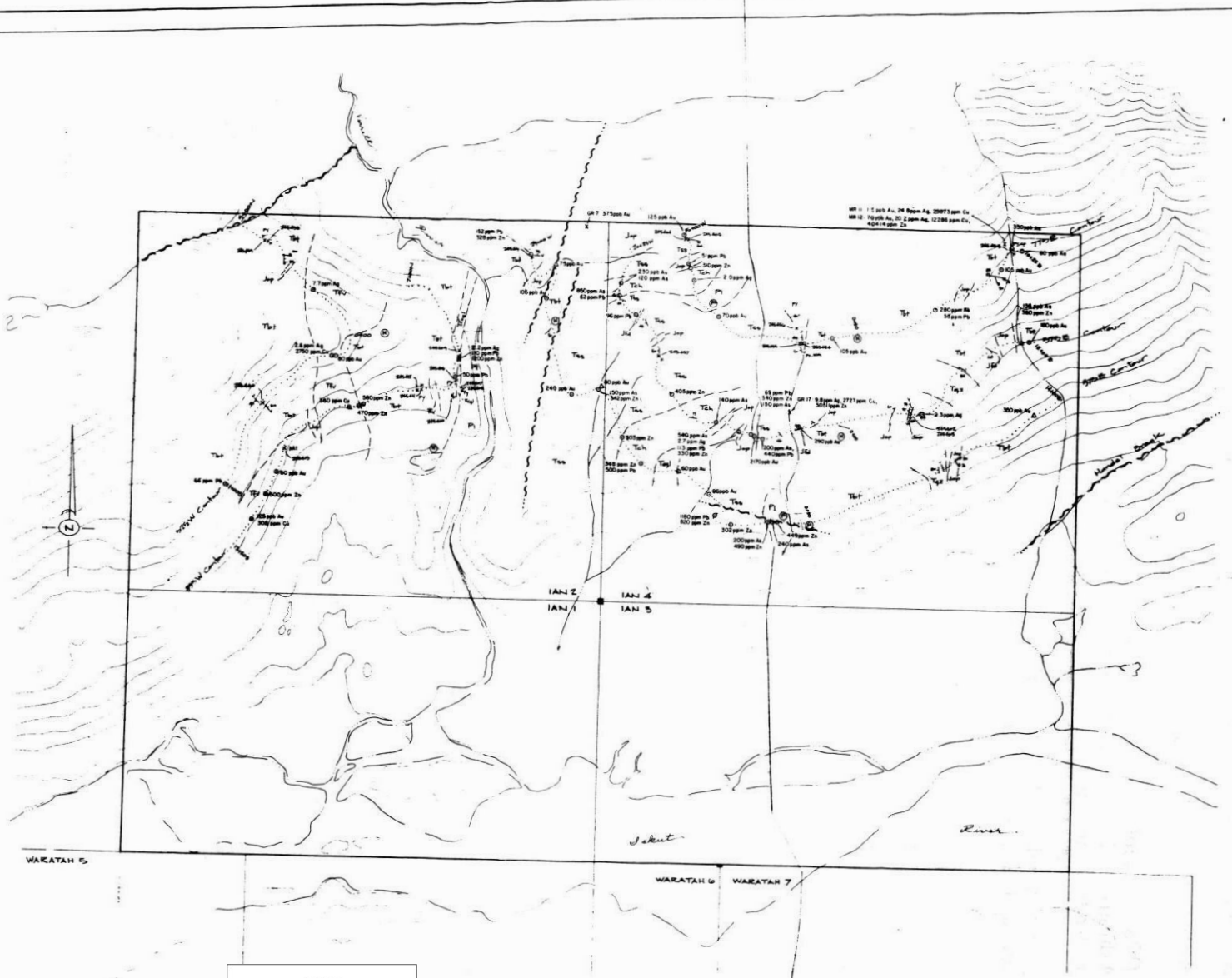
BIBLIOGRAPHY

Caulfield, D.A. and Kasper, B. (1989): Geological and Geochemical Report on the Ian 1-4 Claims, prepared for Big M Petroleum Inc. and submitted for assessment credits to the B.C. Ministry of Mines, Energy and Petroleum Resources.

Kerr, F.A. (1929): G.S.C. Map 311A.

King, G.R. (1987): Geological and Geochemical Report on the Ian 1 to 4 Claims, prepared for Ashburton Oil Ltd. and submitted for assessment credits to the B.C. Ministry of Mines, Energy and Petroleum Resources.

Pegg, R.S. (1988): Geological Compilation of the Iskut, Sulphurets and Stewart Gold Camps. Unpublished report for BP Resources Canada Limited.



LEGEND

LITHOLOGIES

Jurassic

- Jop — Orthoclase porphyry
- Jfd — Felsic dyke

Triassic

- Tqz — Quartzite
- Tsb — Interbedded siltstone, mudstone, greywacke
- Tcgl — Conglomerate
- Tch — Chert
- TFv — Feldspar porphyry flow
- Tbt — Agglomerate
- Tlscgl — Limestone conglomerate

Permian

- P — Crinoidal limestone

ANOMALOUS LEVELS

Soils

- Au ≥ 60ppb
- Ag ≥ 2.0ppm
- As ≥ 100ppm
- Pb ≥ 50 ppm
- Zn ≥ 300ppm
- Cu ≥ 300 ppm

Silts

- Au ≥ 60 ppb

SYMBOLS

- H — Helipad
- F — Fossil location
- Geological contact, inferred
- Fault
- X — Rock (grab) sample location; F – Float
- MR, GR — HI-TEC rock (grab) sample
- Bedding
- Vein
- Joint
- Legal corner post (LCP) (assumed)
- Mt — Magnetite

Scale 1:40,000

NOTE Geology and soil & silt sampling by Equity Engineering Ltd. – (1988)

ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)
245401	5	8.6	194	512	185
245402	<5	0.4	9	6	25
245403	15	0.4	4	<2	9
245404	<5	0.2	97	<2	90
245405	<5	0.2	171	6	67
245406	<5	<0.2	33	66	84
245407	<5	<0.2	33	5	76
245408	<5	<0.2	36	8	74
245409	<5	<0.2	18	4	112
245410	<5	<0.2	<1	8	82
245411	<5	<0.2	10	12	53
245412	<5	<0.2	74	10	89
245413	<5	<0.2	<1	2	100
245453	2800	4.0	1950	14	70
245454	35	0.4	73	26	98
245455	<5	0.4	51	8	30
245456	90	2.4	38	40	83
245457	<5	0.2	8	<2	239
245458	35	<0.2	38	<2	68
245459	5	<0.2	29	2	52
245460	<5	0.2	17	<2	5

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BIG M PETROLEUM INC.

IAN 1-4 CLAIMS

COMPILATION MAP

LIARD MINING DIVISION, B.C.

KEEWATIN ENGINEERING INC.

By	N.T.S.	Date	Plan
K. Pegg	104B/10W, 11E	May, 1989	1

GEOLOGICAL AND GEOCHEMICAL REPORT
ON THE
IAN 1-4 CLAIMS

Located in the Iskut River area
Liard Mining Division
NTS 104B/10W, 11E
56° 43' North Latitude
130° 59' West Longitude

-prepared for-
BIG M PETROLEUM INC.

-prepared by-

David A. Caulfield, Geologist
Bruno Kasper, Geologist

February, 1989

GEOLOGICAL AND GEOCHEMICAL REPORT ON THE IAN 1-4 CLAIMS

TABLE OF CONTENTS

APPENDICES

LIST OF FIGURES

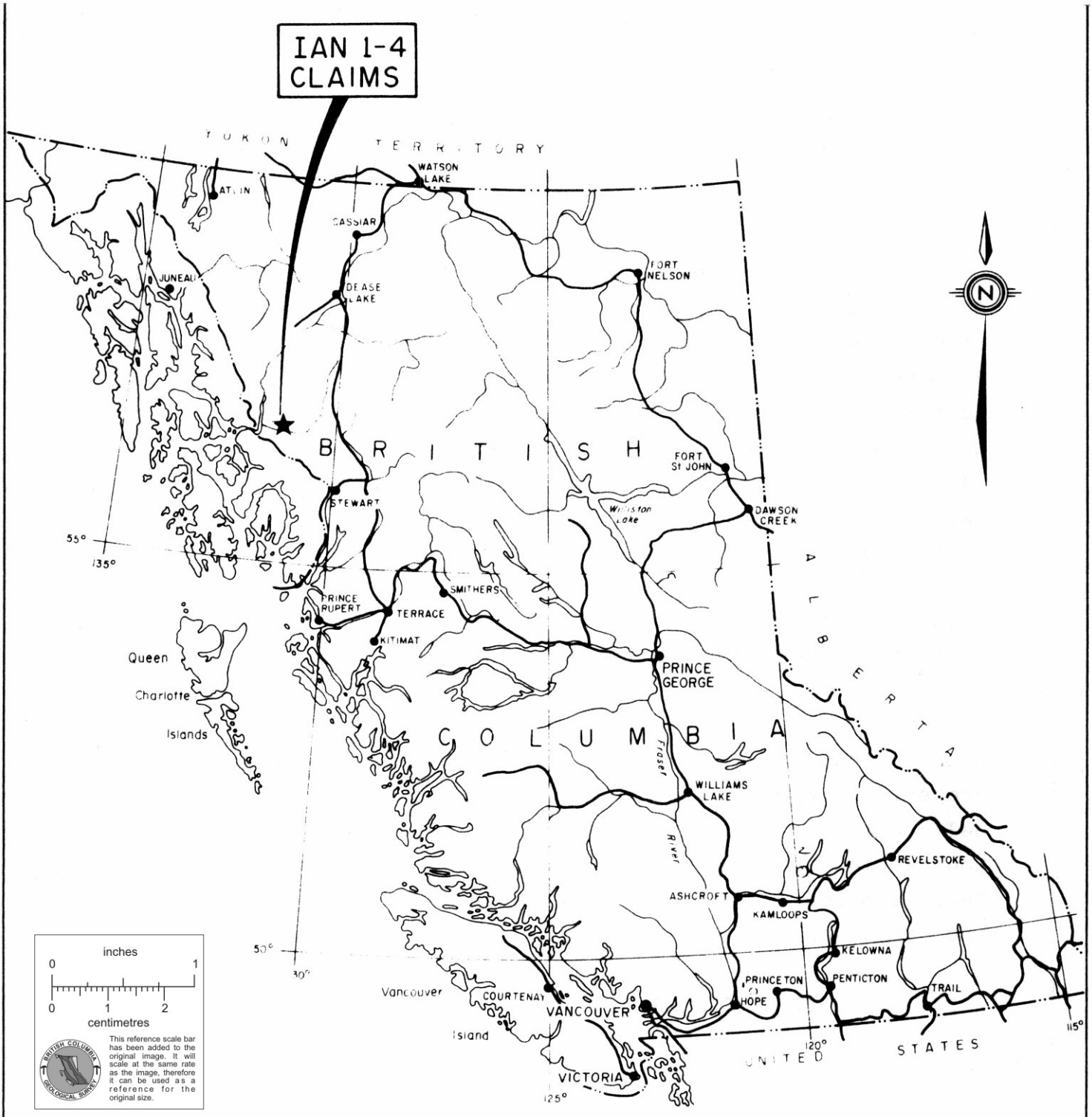
1.0 INTRODUCTION

The Ian 1-4 mineral claims were staked in December 1986 to cover favorable geology similar to that hosting the high-grade Stonehouse (Skyline Explorations Ltd.) and Snip (Cominco/Delaware Resource Corp.) gold deposits in the Iskut River area of northwestern British Columbia (Figure 1). Each of these deposits, located approximately seven kilometers southwest of the Ian 1-4 claims, has reported significant gold reserves grading in excess of 17 grams gold per tonne (0.5 oz/ton gold). During the 1987 and 1988 field seasons, numerous other significant gold discoveries were reported throughout the Iskut River area, making this region one of the more exciting and promising gold areas currently under exploration in British Columbia.

An exploration program consisting of geological mapping, prospecting, soil and silt sampling was conducted over the property in August, 1988. The emphasis of the program was to delineate areas for more intensive exploration. Equity Engineering Ltd. carried out the field exploration for Big M Petroleum Inc. and has been retained to report on the results of the field work.

2.0 LIST OF CLAIMS

Records of the British Columbia Ministry of Energy, Mines and Petroleum Resources indicate that the following mineral claims (Figure 2) are owned by Ian Hagemoen. Separate documents indicate that the claims are under option to Big M Petroleum Inc.



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BIG M PETROLEUM INC.

IAN 1-4 CLAIMS

PROPERTY LOCATION MAP

0 100 200 MILES
0 100 200 300 KILOMETRES

EQUITY ENGINEERING LTD.

DRAWN	PROJECT	DATE	FIG.
JW	BIM 88-01	June, 1988	1.

Claim Name	Record Number	No. of Units	Record Date	Expiry Year
Ian 1	3730	20	Dec. 5, 1986	1991
Ian 2	3731	20	Dec. 5, 1986	1991
Ian 3	3732	20	Dec. 5, 1986	1991
Ian 4	3733	20	Dec. 5, 1986	1991
		80		

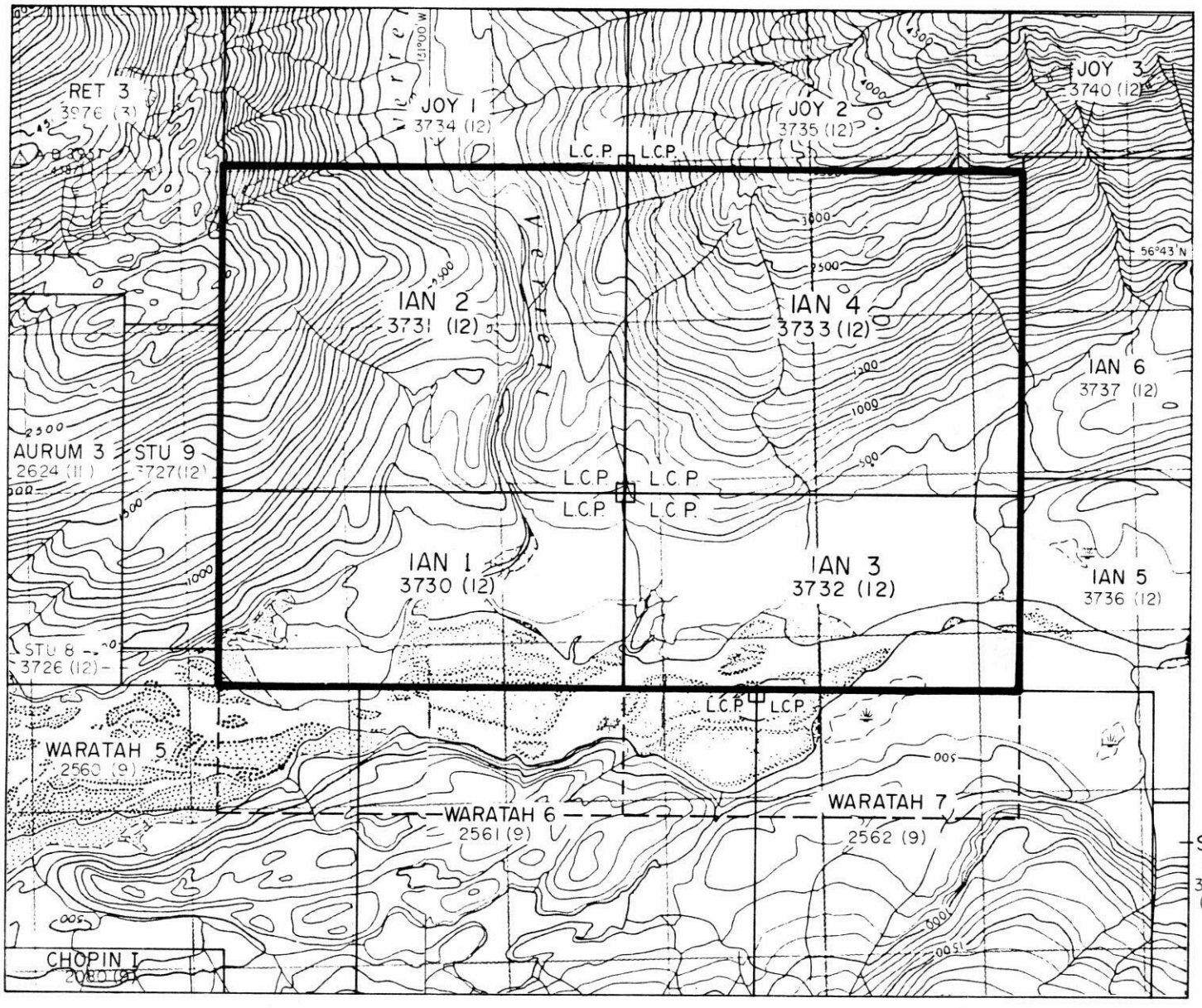
The southern half of the Ian 1 and 3 claims overlaps the previously staked Waratah 6 and 7 claims, reducing the effective size of the Ian 1-4 claim group to approximately 60 units (15 square kilometers).

The location of the legal corner posts for the Ian 1-4 mineral claims has not been verified by the authors.

3.0 LOCATION, ACCESS AND GEOGRAPHY

The Ian 1-4 claims straddle the Verrett River immediately north of the Iskut River in the Coast Range Mountains, approximately 110 kilometers northwest of Stewart, British Columbia and 80 kilometers east of Wrangell, Alaska (Figure 1). They lie within the Liard Mining Division, centered at 56° 43' North latitude and 130° 59' West longitude.

Access to the property is by helicopter from the Bronson Creek gravel air strip, located approximately five kilometers to the west (Figure 2). Daily scheduled flights using fixed wing aircraft link the strip to Smithers throughout the year. The strip has been extended to 5,000 feet and is now able to accommodate Hercules aircraft. A proposal by Pamicon Developments Ltd. recommends the construction of a road approximately 65 kilometers in length along the south side of the Iskut Valley to connect the Stonehouse and Snip gold deposits to the Stewart-Cassiar Highway.



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centimetres

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1:25,000
0 500 1000 1500 m

BIG M PETROLEUM INC.

IAN 1-4 CLAIMS

CLAIM MAP

LIARD MINING DIVISION, B.C.
104B/10W, 11E

EQUITY ENGINEERING LTD.

DATE	PROJECT	BY	FIG.
June, 1988	BIM 88-01	H.A.	2

The Ian claims extend northwards along both sides of the Verrett River from the Iskut River, covering the southern flanks of Mount Verrett and an unnamed mountain to the east. Topography is rugged, typical of mountainous and glaciated terrain, with elevations ranging from 150 meters above sea level on the Iskut River to over 1000 meters on the north boundary of Ian 4. Outcrop exposure is absent on the Iskut River floodplain and is masked by the heavy vegetation which occurs below treeline.

Lower slopes are covered with a dense growth of hemlock and spruce with an undergrowth of devil's club and huckleberry. Steeper open slopes are covered by dense slide alder growth. The entire property lies below treeline which occurs at approximately 1300 meters elevation. Both summer and winter temperatures are moderate although annual rainfall may exceed 200 centimeters and several meters of snow commonly fall at higher elevations.

4.0 AREA AND PROPERTY MINING HISTORY

4.1 Previous Work

The first recorded work in the Iskut River area (Figure 3) was done in 1907 by a prospecting party from Wrangell, Alaska who staked nine claims north of Johnny Mountain. Iskut Mining Company subsequently worked crown-granted claims along Bronson Creek and on the north slope of Johnny Mountain. By 1920, a nine-meter adit had revealed a number of galena-bearing veins and stringers.

In 1954, Hudsons Bay Mining and Smelting located the Pick Axe showing and the high grade gold-silver-lead-zinc float on the open upper slopes of Johnny Mountain which ultimately led to Skyline Exploration's Stonehouse Gold deposit. The claims were

worked and subsequently allowed to lapse.

During the 1960's, several major mining companies conducted helicopter-supported reconnaissance exploration programs in their search for porphyry copper-molybdenum deposits. Several claims were staked on Johnny Mountain, including some by Cominco over a gold-bearing quartz vein which was developed much later into the Snip gold deposit.

In 1969, Skyline Explorations Ltd. staked the Inel property after discovering massive sulphide float originating from the head of the Bronson Creek glacier. They restaked the Reg property on Johnny Mountain in 1980. In the following years, Skyline carried out extensive trenching, drilling and underground development on mesothermal polymetallic veins on both the Reg and Inel properties, defining zones of high grade gold-silver mineralization. Total reserves for the Stonehouse Gold deposit on the Reg claims were stand at 622,000 tonnes grading 19.5 grams gold per tonne in January 1989 (Skyline Explorations Ltd., 1988 Annual Report). Milling operations are currently underway at a rate nearing 300 tonnes per day. Underground and surface exploration is continuing on the Inel property. A total of 37 surface and 90 underground holes have been drilled on the Inel property to date.

Cominco Ltd. and Delaware Resources Ltd. are developing the Snip deposit, located five kilometers northwest of Skyline's Stonehouse Gold deposit, for production in near future. Current reserves on the Twin zone total 1.42 million tonnes grading 21.9 grams gold per tonne (Delaware, 1988).

At the headwaters of McLymont Creek some fifteen kilometers north of the Ian 1-4 claims, Gulf International Minerals is actively exploring Permian limestone-hosted skarn zones found along a prominent northeast trending structure on the McLymont 3

mineral claim. The drill results to date have outlined the gold-bearing zones over a strike length of 300 meters and to a depth of 150 meters. The mineralized horizons are variable in width with intersections up to 45.5 meters grading 7.1 grams gold per tonne in drill hole 88-28.

The first recorded work on ground currently covered by the Ian 1-4 claims was done by DuPont of Canada Exploration Limited in 1980 (Strain, 1981). They staked the BAX claim to cover a small drainage identified as anomalous for gold by their regional heavy mineral stream sediment survey, but allowed the claim to lapse after two days of follow-up work failed to yield a bedrock source for the gold (Strain, 1981).

The Ian 1-4 claims were staked in December 1986 after Skyline announced very favorable results from that season's drilling and underground development program on their Stonehouse Gold deposit. They were subsequently optioned to Ashburton Oil Ltd., who conducted a limited program of geological mapping and geochemistry over the property during 1987 and discovered two zinc-copper occurrences (King, 1987).

An airborne survey was flown by Aerodat Limited over the Ian 1-4 claims from May 26 and June 1, 1988. Included in their report dated August 26, 1988 were maps showing electromagnetic profiles and interpretation, total field magnetics, vertical magnetic gradients, apparent resistivity and total field VLF-EM. Although the details of the survey are beyond the scope of this report, a review of the data shows an area of resistivity low with coincident EM conductors along the north end of the Ian 1 and 3 claims. This anomaly lies within the Iskut River flats and is likely caused by the presence of surficial conductivity induced by surface clays.

4.2 1988 Program

During August of 1988, Big M Petroleum Inc. carried out a exploration program on the Ian 1-4 claims, consisting of geological mapping, prospecting and stream sediment and soil geochemistry. Mapping and rock geochemical sampling were conducted along the contour soil sampling lines. As the property lies below treeline, five helipads were constructed for better access. The emphasis of this program was to outline areas which may contain gold-rich mesothermal quartz veins similiar to those found in the Stonehouse and Snip gold deposits.

Three soil contour lines at 375, 575, and 770 meter elevations were run on the east side of the Verrett River and two soil contour lines were sampled on the 335 and 525 meter elevations on the west side. Stream sediment samples were collected from drainages encountered along each contour level. Rock samples were taken from zones of alteration and mineralization. A total of 21 rock, 14 stream sediment and 579 soil samples were collected for analysis during the course of the program. Reconnaissance geological mapping was conducted in conjunction with the soil sampling and later transferred to a 1:10,000 scale topographic orthophoto, which was not ready in time for the field program.

Stream sediment samples were taken from active and inactive drainages, screened underwater in the field or later screened in camp to minus 40 mesh and then shipped to Chemex Labs Ltd. in North Vancouver where they were pulverized and analyzed geochemically for gold and 32-element ICP. Soil samples were taken at twenty-five meters intervals. Wherever possible, soil samples were taken from the red-brown B horizon using a mattock. All soil samples were air dried in camp before shipment to the laboratory where the samples were further dried, sieved to minus 80 mesh and analysed geochemically for gold, silver, copper,

molybdenum, lead, zinc, arsenic and antimony. Rock samples were pulverized and analyzed geochemically for gold and 32-element ICP. Detailed rock sample descriptions are attached in Appendix C and analytical certificates are found in Appendix D.

5.0 REGIONAL GEOLOGY

Government mapping of the general geology (Figure 3) in the Iskut River area (Kerr, 1948; GSC Maps 9-1957 and 1418-1979) has proven to be incomplete and unreliable. Subsequent mineral exploration mapping has greatly enhanced the lithologic and stratigraphic knowledge of the area.

The oldest rock assemblage in the Iskut River district consists of Paleozoic crinoidal limestone (Unit 3) overlying metamorphosed sedimentary and volcanic members (Unit 4).

Unconformably overlying the Paleozoic limestone unit are Upper Triassic Hazelton Group island arc volcanics and sediments, referred to informally as the "Snippaker Volcanics" (Unit 2). Grove (1981) correlates this assemblage to the Unuk River Formation of the Stewart Complex whereas other writers match this group with the time-equivalent Stuhini Volcanics. Monotis fossils have been recognized on the north slope of Snippaker Peak and west of Newmont Lake giving an age of Late Triassic. This volcano-sedimentary package hosts the Stonehouse Gold, Snip and Inel deposits.

Grove reports an unconformity between Carboniferous and Middle Jurassic strata on both sides of Snippaker Ridge, north of Snippaker Peak. The same unconformable relationship between these major rock units appears to extend from Forrest Kerr Creek west along the Iskut River to its junction with the Stikine River. Present interpretation suggests an east-west trending

thrust along the axis of the Iskut River which, like the King Salmon Thrust Fault, pushed up and over to the south.

Following the Iskut River thrust faulting, the entire region was overlain by Middle Jurassic Hazelton Group volcano-sedimentary rocks correlated by Grove (1986) to the Betty Creek Formation (Unit 2). Subvolcanic orthoclase porphyry stocks (Unit KTgp), dated as Jurassic by Nagy (1987), occur near all significant gold occurrences and may be genetically related to mineralization.

The batholithic Coast Plutonic Complex intrusions in the Iskut region are of Triassic to Cretaceous age. Composition varies from quartz monzonite to diorite.

Quaternary and Tertiary bimodal terrestrial volcanics (Unit Rvb) occur along the Iskut River near Forrest Kerr Creek and further west at Hoodoo Mountain.

6.0 PROPERTY GEOLOGY AND MINERALIZATION

6.1 Geology

Limited geological mapping and sampling programs were conducted over ground currently covered by the Ian 1-4 claims during 1980 (Strain, 1981) and 1987 (King, 1987). More systematic mapping along the soil contour lines during the current field program is presented on Figure 4. The map units selected are consistent with those mapped by Macrae and Hall (1983) on the properties adjoining to the west.

Massive, buff-colored, coarsely-crystalline limestone (Unit Pl) outcrops in the Verrett River canyon, trending northerly and dipping gently to the east or west. A similar limestone unit was

encountered along contour line 770E between 7+50W and 8+50W and a fossiliferous exposure containing well preserved crinoidal fragments is found on line 375E. The unit is best described as a crinodial biomicritic limestone and is probably correlative with the Permian or earlier limestones mapped elsewhere in the Iskut district.

A sequence of Triassic sedimentary and volcanic rocks, similiar to those mapped by Macrae and Hall (1983) on properties to the west, cover the majority of the Ian claims. While volcanic members dominate the Triassic strata west of the Verrett River, both sediments and volcanics occur on the east side of the Verrett River. A well developed karst system also occurs along the Triassic volcaniclastic-Permian limestone contact on the west side of the Verrett River. This contact area is marked by a a strongly chloritic, limestone conglomerate (Unit Tlcgl) providing evidence that the Permain limestone is unconformably overlain by the Triassic volcaniclastic rocks.

Of the volcanic rocks, the mafic agglomerates and tuffs (Unit Tbt) are the most abundant. The agglomerate is a dark green undifferentiated mafic volcaniclastic unit, with subrounded to subangular clasts up to one meter across. The clasts originated from vessicular to amygdaloidal andesitic flows or plagioclase-augite porphyries. The agglomerate is strongly chloritized in places, masking the presence of the clasts. The brittle porphyry fragments fracture more readily than the matrix, aiding in the identification of the agglomerate in outcrop. The matrix of the agglomerate is andesitic in composition with plagioclase and pyroxene crystals set in an aphanitic groundmass. The agglomerate locally grades into a finer grained tuff. It has been altered by pervasive carbonate, chlorite and lesser epidote during weak regional metamorphism.

A feldspar porphyry flow (Unit Tfv) trends north-south

through the center of the Ian 2 claim. The feldspar porphyry is composed of weakly oriented, subhedral to euhedral plagioclase phenocrysts supported by a dark green aphanitic matrix. On weathered surfaces, the phenocrysts are more recessive than the matrix, imparting a knobby texture on outcrop surfaces. Fragments of this rock type are found within the above agglomerate/tuff.

The Triassic sedimentary rocks cover a range of rock types including conglomlerate, chert, quartzite and interbedded siltstone/greywacke. The rusty-brown conglomerate (Unit Tcgl) consists of fine-grained, rounded to subrounded, sedimentary clasts up to one centimeter in a light grey, fine-grained matrix. The chert (Unit Tch) varies from massive to thinly laminated and ranges in colour from a light green to light purple. The chert tends to form ridges due to the resistant nature of the unit. Outcrops of light grey to white, laminated quartzite (Unit Tqz) occur on the eastern side of lines 375E and 575E. Bedding attitudes in this unit indicate a 170° strike and a steep westerly dip.

By far the most dominant sedimentary unit is an interbedded siltstone and greywacke of intermediate composition (Unit Tss). It is well interbedded with beds up to 5 centimeters and graded bedding and load structures are common. The sand-sized crystals and fragments in the greywacke are sub-angular to angular. More fine-grained interbeds of well indurated argillite are common, characterized by their dark grey to black colour and conchoidal fracture surfaces. Light to dark green beds of clastic material may be due to a higher influx of mafic volcaniclastic detritus. Disseminated pyrite-pyrrhotite mineralization occurs locally within the interbedded siltstone/greywacke unit.

Several small orthoclase porphyry bodies (Unit Jop) occur on both the Ian 2 and Ian 4 claims. Potassium feldspar megacrysts

up to two centimeters in length are the diagnostic feature of the rock unit. The matrix supporting the phenocrysts is normally an equigranular, medium-grained mixture of feldspars, mafic grains, quartz and accessory magnetite, but is locally aphanitic. Depending on the quartz content, the composition of the rock type would fall between a quartz syenite and syenite. In addition to the syenitic intrusions, a small felsic dyke (Unit Jfd) was mapped on the eastern portion of the Ian 4 claim.

To date, the geological mapping has not progressed enough to present a complete structural interpretation for the property. The general trend of the Upper Triassic lithologies falls within a northeast quadrant with quite variable dip directions. This evidence and the repetition of lithological units suggests that the area has been subjected to some degree of folding and associated faulting.

A major northeasterly-trending lineament, termed the "Handel Break", extends from Johnny Mountain through the Handel and Waratah claims and across the Ian 3 claim. The majority of the gold occurrences reported by Caulfield (1987) on the Waratah property to the south are located in close proximity to this fault structure.

6.2 Mineralization

During the 1988 program, several occurrences of sulphide mineralization were discovered in addition to those found by previous operators (Figure 4). Of the new occurrences located, only one of the samples returned an anomalous gold value.

The highest gold value was returned from quartz vein float mineralized with pyrite and chalcopyrite, located in a creek on the far northeast corner of the Ian 4 claim. A sample of the

float, #245453, contained 2800 parts per billion gold and 1950 parts per million copper with very low lead and zinc values. The location of this float indicates that it may have come from further upstream off the property.

Most of the remainder of the samples were taken from narrow quartz-chlorite veins with minor pyrite. These veins are quite similar to many of the auriferous veins found elsewhere in the Iskut River area; however, the veins found to date on the Ian 1-4 claims lack significant copper, lead and zinc mineralization. The lack of base metal mineralization appears to reflect the low gold values.

Two areas of strong pyrite mineralization warrant further investigation in that although base and precious metal values are low, the sulphide mineralization found appears to be extensive. One of these occurrences was discovered along the limestone and volcaniclastic contact east of line 335W. Up to 20% finely disseminated pyrite occurs within a silicified conglomerate or limestone penetrated by ankerite veinlets. On the north end of line 525W, several large rusty boulders of strongly pyritic (up to 30%), silicious altered agglomerate are located in a northeast trending draw. The greatest portion of the pyrite is contained in the matrix of the fragmental host rock. The source of the float boulders is thought to be close due to their angular nature and the abundance of float.

7.0 STREAM AND SOIL GEOCHEMISTRY

7.1 Stream Geochemistry

During 1988, the government released the results of the 1987 stream sediment survey for the Iskut River mapsheet (GSC Open File 1645). Sample #1124 was taken from a drainage on the Ian 1-

4 claims (Figure 5). The chemical analyses for that sample and Sample #1122 which was taken further upstream from the above sample are tabled below along with the anomalous values (80th percentile) for the entire Iskut River mapsheet.

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)	As(ppm)
1122	12	0.3	73	23	136	12
1124	5	0.2	73	8	76	5
		Anomalous Values for RGS 104B (n=698)				
80% level	20	0.4	86	16	168	26

The slightly higher values in sample #1122 suggests the upper sample site is closer to the source of mineralization and therefore, any mineralization exists upstream off the property. Sample #1122 is located in the drainage in which the best mineralized float was found.

Of the fourteen samples taken during the 1988 exploration program on the Ian claims, several samples returned values in excess of the 80th percentile level of the government survey. However, a direct comparison between the two surveys should not be made as the sample method employed by Equity personnel would result in a slightly greater concentration of heavy minerals. However, several samples contain appreciable gold and would certainly require follow-up. These samples include # BIM S1, S4, S5, S6 and S13 which returned gold values of 350, 350, 80, 75 and 135 parts per billion respectfully. All of the above samples are from the east side of the Verrett River and samples #BIM S1, S4 and S13 are taken from the same drainage as the government sample #1124 (Figures 5 and 6).

7.2 Soil Geochemistry

As most of the Ian 1-4 claims are covered by heavy vegetation and rugged topography, it was felt that contour soil sampling would be the best method of geochemically testing the

entire property. Contour soil geochemistry was employed as a reconnaissance tool on the Ian property to isolate areas of anomalous base and precious metal soil enrichment for follow-up by prospecting.

A statistical analysis of the gold, silver, copper, lead, zinc, arsenic and antimony results was completed for all of the soil samples. The 90th percentile for each element was selected as an anomalous level and values above this are shown on Figures 5 and 6. The anomalous values are:

Element	90th Percentile (approx.)
Gold	15 ppb
Silver	0.7 ppm
Copper	96 ppm
Lead	21 ppm
Zinc	200 ppm
Arsenic	16 ppm
Antimony	0.5 ppm

Several areas on both sides of the Verrett River returned consecutive series of anomalous sample sites. These multi-station, multi-element geochemical anomalies most likely reflect the base metal rich precious metal targets being explored elsewhere in the Iskut region.

The area bounded by 575E 2+00W to 8+25W and 375E 0+75W to 7+00W is characterized by anomalous lead, zinc, silver, arsenic and to a lesser extent, gold and antimony values. The highest gold value (2170 ppb) of the entire survey was located at 575E 4+75W. This area is underlain by limestone, sediments and syenite intrusions. Further to the west, Line 375E from 12+75W to 14+50W, is similarily anomalous.

The far western end of Lines 575E and 770E contain sporadic copper, lead, gold and silver anomalies. One sample, 575E 18+25

returned values of 228 ppm copper, 34 ppm lead, 0.8 ppm silver, 120 ppm arsenic and 230 ppb gold. Syenitic bodies intrude interbedded siltstone/greywacke and chert horizons throughout this area.

On the west side of the Verrett River, one area of immediate interest lies along the limestone-agglomerate contact on Line 335W from 0+50N to 2+25N. High lead, zinc, silver and antimony values occur in the samples taken on this part of the line. Strong pyrite mineralization was discovered in the same area; however, the low lead, zinc, arsenic and antimony values in the rock analyses of the mineralization sampled are not consistent with the high soil values.

Stations 5+25S and 5+50S on Line 335W returned anomalous values for all elements tested except gold. Many other spot anomalies found throughout the survey area also warrant follow-up work.

8.0 DISCUSSION

The Ian 1-4 claims are underlain by Permian limestone and Upper Triassic Hazelton Group volcaniclastics and sediments which have been intruded by syenitic intrusives. Mineralization elsewhere in the Iskut district, including the Snip and Stonehouse Gold deposits approximately seven kilometers to the southwest, appears genetically related to syenitic bodies, and is hosted by altered Hazelton Group sediments and volcanics.

In 1988, a program of reconnaissance geological mapping and geochemical sampling was conducted over the Ian 1-4 claims to outline anomalous areas for more intensive exploration. To this end, the program successfully defined several strong soil geochemical anomalies that require more detailed follow-up. Of

particular interest, a large copper, lead, zinc, silver, gold, arsenic and antimony soil anomaly lies in the southwest sector of the Ian 4 claim. The bedrock source of these anomalous soil values remains to be discovered. Further exploration of the southwest corner of the Ian 4 claim would be best approached by establishing a grid over the area for detailed geological mapping, soil geochemistry and prospecting. The underlying geology in this area is permissive for both limestone-hosted skarn and mesothermal quartz vein type deposits.

Limited rock sampling was completed during the program. One sample returned an anomalous gold value (Sample #245453 - 2800 ppb gold) but the location of the float sample and stream sediment results further upstream indicate that the source of this float may be further north, off the Ian property.

Further exploration is recommended for Ian property. A program of detailed mapping, prospecting and soil geochemistry should be instituted in the anomalous areas outlined by the 1988 program.

Respectfully submitted,
EQUITY ENGINEERING LTD.

David A. Caulfield, Geologist

Bruno Kasper, Geologist

Vancouver, British Columbia
February, 1989

APPENDIX A

BIBLIOGRAPHY

BIBLIOGRAPHY

Awmack, H.J. (1988): Summary Report on the Ian 1-4 Claims; , Report prepared for Big M Petroleum Inc.

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APPENDIX B

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES: IAN 1-4 CLAIMS

PROFESSIONAL FEES AND WAGES:		
Henry J. Awmack, P.Eng.		
1.50 days @ $300/day	$ 450.00	
David A. Caulfield, Geologist		
15.0 days @ $300/day	4,500.00	
Bruno Kasper, Geologist		
22.75 days @ $250/day	4,750.00	
Donald McInnes, Sampler		
15.0 days @ $175/day	2,625.00	
Fred Ensom, Sampler		
11.00 days @ $175/day	1,925.00	
Grace Jones, Cook		
5.0 days @ $175/day	875.00	
		$ 15,125.00
CHEMICAL ANALYSES:		
14 stream sediment samples @ $17.25	$ 241.50	
579 soil samples @ $19.25	11,145.75	
21 rock samples @ $17.75	372.75	
		11,760.00
ROOM CHARGES (TUNGCO CAMP):		
62.25 mandays @ $30/manday		1,867.50
EXPENSES:		
Geochemical Supplies	85.44	
Material and Supplies	280.51	
Maps and Publications	66.00	
Orthophoto	2,635.00	
Camp Supplies	306.13	
Camp Food	887.47	
Camp Fuel	29.26	
Travel	527.20	
Aircraft Charters	1,587.60	
Helicopter Charters	5,950.00	
Telephone Charges	3.88	
Courier and Telefax	12.00	
Freight	125.55	
Aircraft Charters	160.95	
Expediting	1,203.00	
Report (estimated)	3,000.00	
		16,859.79
MANAGEMENT FEES:		
15% on expenses only		4,003.80
		$ 49,616.09

APPENDIX C

ROCK SAMPLE DESCRIPTIONS

EQUITY ENGINEERING LTD.

Geochemical Data Sheet - ROCK SAMPLING

NTS 104B/10W, 11E

Sampler DAC

Project B1M88-01

Location Ref ISKUT RIVER

Date AUGUST 11-21, 1988

Property IAN 1-4

Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Au ppb	Ag ppm	As ppm	Cu ppm	Pb ppm	Zn ppm
245453	East Creek 770E 9+50E	Grab float		f.j. seds.?	QZ	PY, CP	boulder (rounded 20x20cm) in creek.	2800	4.0	5	1950	14	70
245454	770E 3+50W	"		interbedded mudst/wacke	Fe carb.	strong LI products	5" weathered out, float is close to source	35	0.4	15	73	26	98
245455	770E 3+65W	Grab ØC	20-30cm	cliney seds.		MG, PY, LI prod	alt° (MG mineral.) at 1.0-1.5 m. wide	<5	0.4	<5	51	8	30
245456	100m North of 770E 4+00W	"	20cm	silic. light green f.g. seds, minor lst	QZ	PY	165°/46°NE, exposed for 7.0m.	90	2.4	150	278	40	83
245457	575E 13+25W	Grab float		seds	CA, CL	PY	1900' elev., sheared, crackled seds float in draw	<5	0.2	15	8	<2	239
245458	525W 7+00N	"		Aggl.	Silicific	PY diss. 20% LI stringer	Elev. 1750'-1800' boulder (rusty) (10m x 0.5m x .75m),	15	<0.2	<5	38	<2	68
245459	"	"		"	"	PY diss. up to 30% matrix	Similar float to 458 but 200' higher in elev., many boulders, PY in matrix of Aggl.	5	<0.2	<5	29	2	52
245460	525W 6+35S	Grab ØC	10cm	"	QZ, CL	—	bull QZ/CL vein 138°/60°NE	<5	0.2	<5	17	<2	5

EQUITY ENGINEERING LTD.

Geochemical Data Sh[illegible] - ROCK SAMPLING

NTS 094E/10W, 11E

Sampler B.K. Project BIM 88-01 Location Ref Iskut River

Date August 12, 1988 Property IAN 1-4 Air Photo No

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width / True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS					
				Rock Type	Alteration	Mineralization		Au ppb	Ag	As	Cu	Pb	Zn
245401	375 E 28+75 W	Grab o/c	≈ 10cm	f gr s/s or siltst	CL + QZ	PY, LI Products	CL/QZ vein, stringers + blebs of PY, exposed for 1.0m, 091°/75°N	5	5.6	5	174	512	189
245402	575 E 31+75 E	Grab o/c	25 cm	coarse crystal. QZ vein	QZ	Sporadic blebs of PY & LI Products	- in syenitic intrusive, close to #245403, strike 025°/62° W	<5	0.4	<5	9	6	25
245403	515 E 31+75 E	"	15 cm	QZ vein	QZ	Mass PY > Mg + LI Products	- in syenitic intrusive, v coarse crystalline, variable in width 163°/[illegible]W	15	0.4	<5	4	<2	9
245404	770 E 14+67 W	"	7 cm	ss. wacke	QZ	LI Products	-width very variable, can only follow [illegible]	<5	0.2	10	97	<2	90
245405	770 E 14+70 W	"	≈ 1m	ss. wacke	Siliceous > CL	Blebs of LI Products	- sporadic blebs scattered throughout [illegible]	<5	0.2	<5	171	6	67
245406	[illegible] W 0+20 N	"		conglom. ss	CL	Disseminated PY stringers, LI Products	highly leached, bleached grey colour	<5	<0.2	5	33	56	89
245407	[illegible] W 0+30 N	"		conglom (?)	QZ	Disseminated (15 - 20%)	≈ 30m from pit on B∠° 350° close to sediments	<5	<0.2	80	33	<2	76
245408	10m north of 245407	"		conglom (?)	QZ	Disseminated PY + blebs, LI Products	QZ stringers present s/c continues for 40m on ∠B° [illegible]	<5	<0.2	75	35	8	74
245409	335 W 2+25 N	Float		volcaniclastic ss or tuff	CL + QZ (?)	LI prod.s (goethite)	close to source in situ [illegible] has small green chlorite blebs	<5	<0.2	<5	18	4	112
245410	≈ 50m from 335 W, 0+00	"		agglom (?)	Siliceous	Disseminated PY (1-4%)	- float found on ∠B° at 208° from 335 W, 0+00	<5	<0.2	40	51	8	82
245411	33[illegible] W [illegible]	"		agglom	Siliceous + CL	PY	- contains emerald green chlorite [illegible] wisps + stringers + dissem. PY	<5	<0.2	<5	10	12	53
245412	33[illegible] W [illegible]	Grab o/c		[illegible]	CL + QZ.	PY, LI Products	east of v. shallow dipping quartz veins and blebs of PY + [illegible]	<5	<0.2	20	72	10	89
245413	335 W [illegible]	"		Intrusive (?)	CL + QZ	Disseminated [illegible]	Mineralized over [illegible] Mg decreases, PY blebs [illegible]	<5	<0.2	5	<1	<2	100

APPENDIX D

CERTIFICATES OF ANALYSIS

Chemex Labs Ltd.
Analytical Chemists • Geochemists • Registered Assayers
212 BROOKSBANK AVE. NORTH VANCOUVER,
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PHONE (604) 984-0221

TO: EQUITY ENGINEERING LTD.

406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A8821240

Comments:

CERTIFICATE A8821240

EQUITY ENGINEERING LTD
PROJECT : BIM 88-01
P O # : NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 29-AUG-88.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
203	5	Dry, sieve -35 mesh and ring
238	5	ICP: Aqua regia digestion

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	5	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
921	5	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	5	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	5	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	5	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	5	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	5	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	5	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	5	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	5	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	5	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	5	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	5	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	5	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	5	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	5	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	5	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	5	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	5	Mn ppm: 32 element, soil & rock	ICP-AES	1	10000
938	5	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	5	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	5	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	5	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	5	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	5	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	5	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	5	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	5	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	5	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	5	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	5	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	5	W ppm: 32 element, soil & rock	ICP-AES	5	10000
950	5	Zn ppm: 32 element, soil & rock	ICP-AES	5	10000

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Tot. Pages: 1
Date : 29-AUG-88
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P.O. # : NONE

CERTIFICATE OF ANALYSIS A8821240

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
BIM S1	203	238	350	2.27	0.4	< 5	120	1.5	8	0.49	0.5	8	37	13	3.91	10	< 1	0.18	30	0.69	1170
BIM S2	203	238	10	2.18	0.6	< 5	90	2.0	6	0.32	< 0.5	6	25	7	3.53	10	< 1	0.12	30	0.60	879
BIM S3	203	238	5	1.94	0.6	< 5	90	1.5	6	0.44	< 0.5	6	55	7	3.06	10	< 1	0.15	30	0.63	661
BIM S4	203	238	350	2.63	1.0	40	140	0.5	12	0.87	0.5	25	41	121	5.12	10	< 1	0.23	20	1.45	1105
BIM S5	203	238	80	1.99	0.4	15	110	1.0	6	0.68	1.0	12	89	21	3.77	10	< 1	0.19	30	0.68	1080

CERTIFICATION : B. Caplin

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Date : 8-SEP-88
Invoice # : I-8822274
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822274

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
BIM 56	203	238	75	1.58	0.6	10	110	1.5	4	0.96	1.5	9	98	17	4.30	< 10	< 1	0.16	20	0.68	961
BIM 57	203	238	10	1.72	0.6	20	90	1.0	6	0.71	1.0	13	48	14	3.78	< 10	< 1	0.14	10	1.16	1085
BIM 58	203	238	5	1.65	0.2	10	140	1.0	4	0.60	1.0	10	89	15	3.29	< 10	< 1	0.22	10	0.75	1025
BIM 59	203	238	< 5	2.00	0.6	5	60	3.5	2	0.26	< 0.5	9	21	5	4.70	10	< 1	0.11	20	0.50	1330
S 10	203	238	< 5	1.72	0.6	15	90	4.0	< 2	0.28	< 0.5	5	14	8	3.72	10	< 1	0.10	30	0.32	940
S 11	203	238	< 5	1.93	0.6	5	130	3.5	4	0.43	1.0	10	14	18	3.87	10	< 1	0.10	30	0.59	966
S 12	203	238	< 5	1.58	0.6	10	90	2.0	4	0.39	2.0	6	23	12	2.86	10	< 1	0.13	30	0.49	665
S 13	203	238	135	1.75	0.2	20	300	0.5	6	0.62	1.0	18	44	71	4.18	< 10	< 1	0.19	10	1.19	931

CERTIFICATION : B. Caughlin

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V6B 1N2
Project : BIM 88-01
Comments:

P. No.
Tot. Pages: 1
Date : 29-AUG-88
Invoice # : I-8821240
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8821240

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BIM S1	203	238	4	0.09	6	330	12	< 5	3	41	0.19	< 10	< 10	37	15	155
BIM S2	203	238	5	0.04	6	250	6	< 5	3	30	0.19	< 10	< 10	31	15	109
BIM S3	203	238	3	0.07	8	290	14	< 5	3	45	0.15	< 10	< 10	33	10	100
BIM S4	203	238	2	0.04	15	680	30	< 5	7	62	0.13	< 10	< 10	94	35	159
BIM S5	203	238	4	0.13	12	290	18	< 5	4	69	0.21	< 10	< 10	57	25	174

CERTIFICATION : B. Cargl

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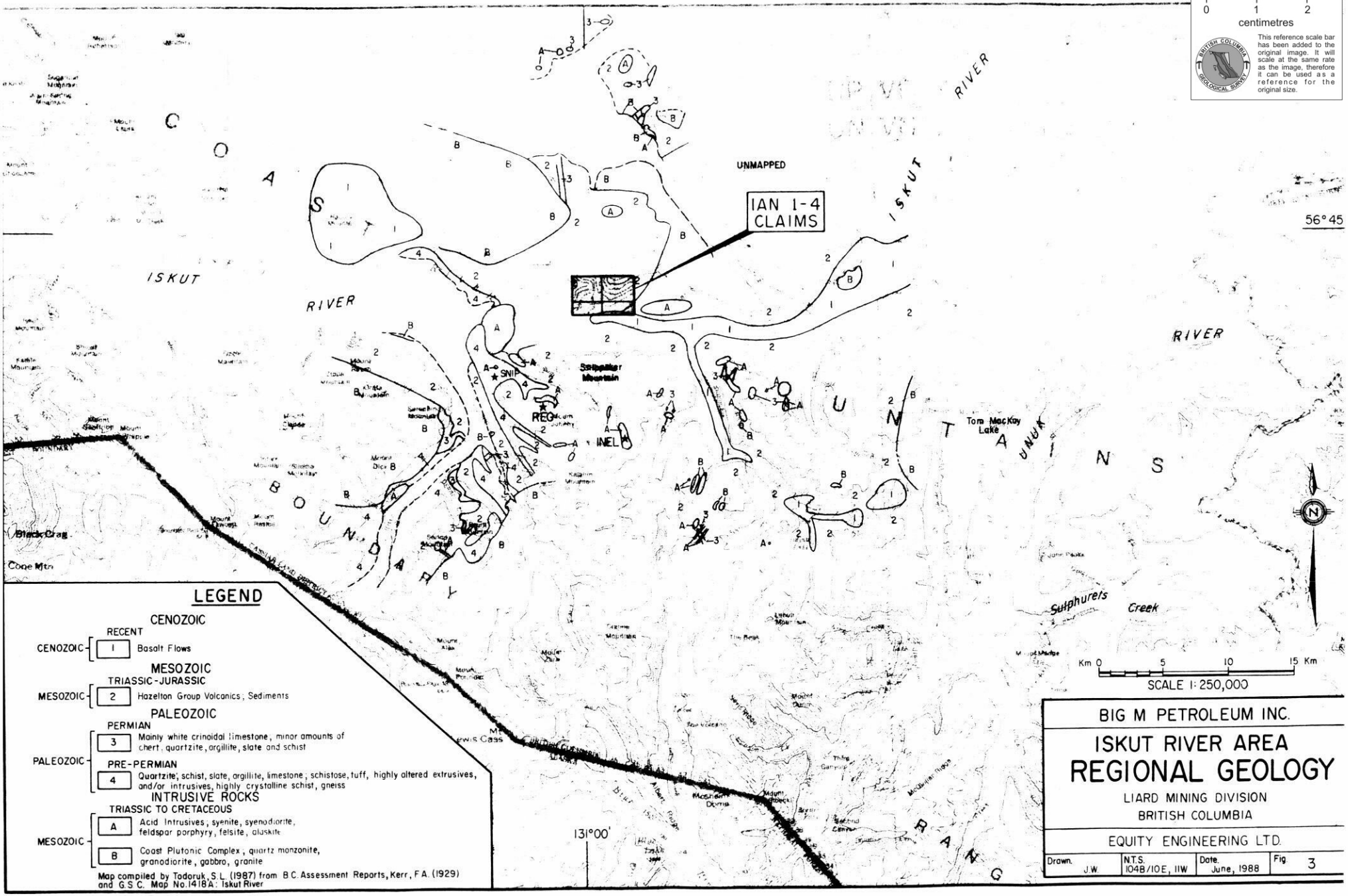
Tot. Pages: 1
Date : 8-SEP-88
Invoice # : I-8822274
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822274

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BIM 56	203	238	6	0.07	9	420	4	< 5	4	62	0.25	< 10	< 10	62	10	360
BIM 57	203	238	1	0.09	8	510	6	< 5	5	48	0.23	< 10	< 10	53	< 5	159
BIM 58	203	238	4	0.11	6	380	6	< 5	4	67	0.15	< 10	< 10	57	< 5	246
BIM 59	203	238	4	0.08	6	490	4	< 5	2	21	0.30	< 10	< 10	37	< 5	152
S 10	203	238	5	0.07	6	360	6	< 5	2	20	0.25	< 10	< 10	25	< 5	147
S 11	203	238	4	0.05	7	470	8	< 5	3	25	0.21	< 10	< 10	39	< 5	161
S 12	203	238	3	0.07	6	300	6	< 5	2	27	0.18	< 10	< 10	25	< 5	268
S 13	203	238	4	0.03	9	710	26	< 5	5	35	0.07	< 10	< 10	65	< 5	127

CERTIFICATION : B. Caplin



LEGEND

CENOZOIC

CENOZOIC — RECENT
- 1 — Basalt Flows

MESOZOIC

MESOZOIC — TRIASSIC-JURASSIC
- 2 — Hazelton Group Volcanics, Sediments

PALEOZOIC

PALEOZOIC — PERMIAN
- 3 — Mainly white crinoidal limestone, minor amounts of chert, quartzite, argillite, slate and schist

PALEOZOIC — PRE-PERMIAN
- 4 — Quartzite, schist, slate, argillite, limestone; schistose, tuff, highly altered extrusives, and/or intrusives, highly crystalline schist, gneiss

INTRUSIVE ROCKS

TRIASSIC TO CRETACEOUS

MESOZOIC
- A — Acid Intrusives, syenite, syenodiorite, feldspar porphyry, felsite, aluskite
- B — Coast Plutonic Complex, quartz monzonite, granodiorite, gabbro, granite

Map compiled by Todoruk, S.L. (1987) from B.C. Assessment Reports, Kerr, F.A. (1929) and G.S.C. Map No. 1418A: Iskut River

BIG M PETROLEUM INC.

ISKUT RIVER AREA
REGIONAL GEOLOGY

LIARD MINING DIVISION
BRITISH COLUMBIA

EQUITY ENGINEERING LTD.

Drawn.	N.T.S.	Date.	Fig.
J.W.	104B/10E, 11W	June, 1988	3

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VANCOUVER, BC
V6B 1N2
Project : BIM 88-01
Comments: ATTN: HENRY AWMACK

Page No. : 1-B
Total Pages: 1
Date : 14-SEP-88
Invoice # : I-8822813
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822813

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BIM S-14	203	238	< 1	0.05	13	980	< 2	10	7	71	0.15	< 10	< 10	112	10	108

CERTIFICATION : D. Caplin

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Total Pages: 1
Date : 14-SEP-88
Invoice # : I-8822813
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822813

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
BIM S-14	203	238	25	1.79	< 0.2	< 5	190	1.0	6	7.40	0.5	23	34	55	4.03	20	< 1	0.35	10	1.35	1010

CERTIFICATION : P. Carlin

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TO: EQUITY ENGINEERING LTD.

406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A8821241

Comments:

CERTIFICATE A8821241

EQUITY ENGINEERING LTD
PROJECT : BIM 88-01
P O # : NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 29-AUG-88.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	5	Rock Geochem: Crush,split,ring
238	5	ICP: Aqua regia digestion

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	5	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
921	5	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	5	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	5	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	5	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	5	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	5	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	5	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	5	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	5	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	5	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	5	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	5	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	5	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	5	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	5	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	5	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	5	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	5	Mn ppm: 32 element, soil & rock	ICP-AES	1	10000
938	5	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	5	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	5	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	5	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	5	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	5	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	5	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	5	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	5	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	5	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	5	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	5	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	5	W ppm: 32 element, soil & rock	ICP-AES	5	10000
950	5	Zn ppm: 32 element, soil & rock	ICP-AES	5	10000

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P.O. # : NONE

CERTIFICATE OF ANALYSIS A8821241

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
245401	205	238	5	2.05	8.6	5	40	< 0.5	34	0.26	0.5	7	14	194	8.64	10	< 1	0.24	< 10	1.50	869
245453	205	238	2800	0.98	4.0	5	10	< 0.5	32	0.42	< 0.5	236	33	1950	13.15	10	< 1	0.06	< 10	0.59	299
245454	205	238	35	0.41	0.4	15	40	< 0.5	4	0.05	< 0.5	2	106	73	8.07	< 10	< 1	0.10	< 10	0.07	459
245455	205	238	< 5	0.44	0.4	< 5	10	< 0.5	< 2	0.37	< 0.5	< 1	62	51	>15.00	10	< 1	0.04	< 10	0.05	7800
245456	205	238	90	1.12	2.4	150	10	< 0.5	< 2	0.47	< 0.5	7	68	278	5.66	10	< 1	0.04	< 10	0.42	1775

CERTIFICATION : B. Caglione

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Date : 29-AUG-88
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CERTIFICATE OF ANALYSIS A8821241

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
245401	205	238	4	0.02	6	880	512	< 5	5	21	0.27	< 10	< 10	90	5	185
245453	205	238	7	0.02	36	350	14	5	4	12	0.06	< 10	10	52	10	70
245454	205	238	2	0.01	15	170	26	< 5	2	2	0.03	10	10	31	< 5	98
245455	205	238	18	0.01	33	1000	8	< 5	1	12	0.05	20	30	91	20	30
245456	205	238	74	< 0.01	56	340	40	< 5	2	68	0.06	10	10	43	5	83

CERTIFICATION : B. Caglioni

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Date : 8-SEP-88
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CERTIFICATE OF ANALYSIS A8822275

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
245402	205	238	< 5	0.72	0.4	< 5	10	< 0.5	2	0.45	< 0.5	8	104	9	1.98	10	< 1	0.02	< 10	0.49	318
245403	205	238	15	0.16	0.4	< 5	< 10	1.0	< 2	0.08	< 0.5	9	140	4	4.77	< 10	< 1	< 0.01	< 10	0.02	50
245404	205	238	< 5	1.74	0.2	10	10	2.0	4	1.17	< 0.5	17	54	97	7.49	20	< 1	0.05	10	0.78	948
245405	205	238	< 5	1.87	0.2	< 5	30	0.5	2	0.73	< 0.5	23	36	171	4.13	20	1	0.15	10	1.30	731
245457	205	238	< 5	3.14	0.2	15	110	1.5	2	0.70	< 0.5	40	83	8	7.44	20	< 1	0.16	10	2.45	1635

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Tot. Pages: 1
Date : 14-SEP-88
Invoice # : I-8822814
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CERTIFICATE OF ANALYSIS A8822814

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
245406	205	238	< 5	2.09	< 0.2	5	30	0.5	6	1.16	0.5	24	35	33	5.23	< 10	< 1	0.08	20	1.58	765
245407	205	238	< 5	1.78	< 0.2	80	70	1.0	4	0.62	1.0	24	11	33	6.50	< 10	< 1	0.25	10	0.99	377
245408	205	238	< 5	1.55	< 0.2	75	50	1.0	< 2	2.33	1.5	25	11	36	6.29	10	< 1	0.19	30	1.04	523
245409	205	238	< 5	2.75	< 0.2	< 5	50	1.5	< 2	0.46	0.5	44	7	18	7.60	< 10	< 1	0.20	10	2.23	1245
245410	205	238	< 5	2.60	< 0.2	40	50	1.0	2	1.58	0.5	25	14	51	7.39	< 10	3	0.17	30	0.46	329
245411	205	238	< 5	1.56	< 0.2	< 5	80	1.0	< 2	0.58	0.5	10	29	10	3.88	< 10	< 1	0.21	10	1.03	444
245412	205	238	< 5	2.12	< 0.2	20	40	1.5	2	0.44	0.5	22	20	74	10.25	< 10	< 1	0.10	10	1.36	708
245413	205	238	< 5	1.37	< 0.2	5	110	0.5	< 2	3.41	< 0.5	< 1	28	< 1	2.67	10	< 1	0.38	40	0.79	1170
245458	205	238	15	1.31	< 0.2	< 5	150	0.5	8	0.69	0.5	21	55	38	5.38	< 10	< 1	0.69	10	0.64	358
245459	205	238	5	1.00	< 0.2	< 5	20	1.5	2	0.75	1.0	23	27	29	11.60	< 10	1	0.20	10	0.47	213
245460	205	238	< 5	0.08	0.2	< 5	200	< 0.5	< 2	0.03	< 0.5	< 1	171	17	0.47	< 10	< 1	0.02	< 10	0.06	146

CERTIFICATION : B. Caplin

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Date : 8-SEP-88
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CERTIFICATE OF ANALYSIS A8822275

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
245402	205 238	1	0.02	2	540	6	< 5	1	55	0.07	< 10	< 10	40	< 5	25
245403	205 238	1	0.01	3	200	< 2	< 5	< 1	9	0.01	< 10	< 10	23	< 5	9
245404	205 238	< 1	0.03	1	2430	< 2	5	4	250	0.17	< 10	< 10	60	< 5	90
245405	205 238	< 1	0.13	7	950	6	< 5	6	61	0.26	< 10	< 10	100	< 5	67
245457	205 238	2	0.04	18	1480	< 2	< 5	12	23	0.24	< 10	< 10	136	< 5	239

CERTIFICATION : B. Caughlin

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To: EQUITY ENGINEERING LTD.

406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A8821242

Comments:

CERTIFICATE A8821242

EQUITY ENGINEERING LTD
PROJECT : BIM 88-01
P.O.# : NONE

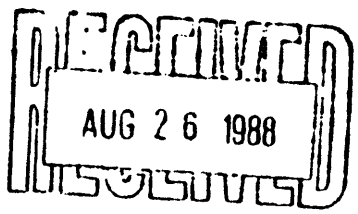
Samples submitted to our lab in Vancouver, BC.
This report was printed on 25-AUG-88.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	246	Dry, sieve -80 mesh; soil, sed.
217	1	Geochem:Ring only,no crush/split

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.



ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	246	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
2	247	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3	247	Mo ppm: HNO3-aqua regia digest	AAS	1	10000
4	247	Pb ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
5	247	Zn ppm: HNO3-aqua regia digest	AAS	5	10000
6	247	Ag ppm: HNO3-aqua regia digest	AAS-BKGD CORR	0.2	200
13	247	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	246	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000

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[QUI[illegible] ENGIN[illegible] NG [illegible]

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Project : BIM 88-01
Comments: ATTN: HENRY AMMACK

Pa[illegible]
To[illegible] ages: 1
Date : 14-SEP-88
Invoice # : I-8822814
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CERTIFICATE OF ANALYSIS A8822814

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
245406	205	238	< 1	0.06	3	1060	66	5	5	62	0.35	< 10	< 10	96	10	84
245407	205	238	< 1	0.13	< 1	1130	< 2	< 5	3	57	0.31	< 10	< 10	49	5	76
245408	205	238	9	0.11	7	1270	8	< 5	3	52	0.22	< 10	< 10	47	10	74
245409	205	238	< 1	0.04	< 1	940	4	< 5	6	16	0.33	< 10	< 10	98	5	112
245410	205	238	< 1	0.24	< 1	1300	8	< 5	4	128	0.32	< 10	< 10	51	10	82
245411	205	238	1	0.09	1	770	12	< 5	6	79	0.34	< 10	< 10	91	5	53
245412	205	238	10	0.03	6	1440	10	< 5	7	45	0.44	< 10	< 10	138	10	89
245413	205	238	< 1	0.03	< 1	1150	< 2	10	2	121	0.02	< 10	< 10	24	< 5	100
245458	205	238	< 1	0.09	10	1190	< 2	< 5	4	46	0.26	< 10	< 10	102	< 5	68
245459	205	238	16	0.05	11	690	2	5	4	80	0.38	< 10	< 10	91	< 5	52
245460	205	238	< 1	0.01	1	50	< 2	< 5	< 1	4	< 0.01	< 10	< 10	6	< 5	5

CERTIFICATION : [signature]

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Tot. Pages: 7
Date : 25-AUG-88
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P.O. # : NONE

CERTIFICATE OF ANALYSIS A8821242

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
3+75E 00+25E	201	--	< 5	16	8	13	112	0.1	7	0.6		
3+75E 00+50E	201	--	< 5	15	8	14	127	0.2	9	0.2		
3+75E 00+75E	201	--	< 5	19	5	13	149	0.1	11	0.2		
3+75E 01+00E	201	--	20	6	1	9	41	0.1	4	0.1		
3+75E 01+25E	201	--	< 5	30	4	11	94	0.1	9	0.2		
3+75E 01+50E	201	--	< 5	7	4	7	56	0.1	5	0.2		
3+75E 01+75E	201	--	< 5	18	4	10	101	0.3	7	0.1		
3+75E 02+00E	201	--	< 5	10	6	14	65	0.3	9	0.3		
3+75E 02+25E	201	--	< 5	15	5	12	154	0.1	9	0.1		
3+75E 02+50E	201	--	< 5	18	6	12	95	0.1	10	0.2		
3+75E 02+75E	201	--	10	13	3	9	116	0.1	3	0.1		
3+75E 03+00E	201	--	< 5	17	5	18	95	0.2	4	0.1		
3+75E 03+25E	201	--	< 5	21	4	12	196	0.1	10	0.1		
3+75E 03+50E	201	--	< 5	17	6	12	203	0.1	9	0.2		
3+75E 03+75E	201	--	< 5	11	8	8	210	0.1	5	0.6		
3+75E 04+00E	201	--	< 5	20	6	14	130	0.1	6	0.4		
3+75E 04+25E	201	--	< 5	12	4	14	142	0.1	7	0.2		
3+75E 04+50E	201	--	< 5	54	4	14	132	0.2	5	0.2		
3+75E 04+75E	201	--	< 5	19	4	13	221	0.2	7	0.2		
3+75E 05+00E	201	--	< 5	12	3	16	81	0.3	5	0.1		
3+75E 05+25E	201	--	< 5	16	3	16	144	0.1	5	0.2		
3+75E 05+50E	201	--	< 5	86	4	13	113	0.1	12	0.2		
3+75E 05+75E	201	--	5	21	3	12	210	0.3	6	0.1		
3+75E 06+00E	201	--	< 5	19	5	12	213	0.3	7	0.1		
3+75E 06+25E	201	--	< 5	12	6	12	137	0.1	9	0.2		
3+75E 06+50E	201	--	< 5	12	5	15	178	0.1	7	0.2		
3+75E 06+75E	201	--	< 5	13	3	12	108	0.2	7	0.2		
3+75E 07+00E	201	--	< 5	15	5	14	134	0.1	10	0.4		
3+75E 07+25E	201	--	< 5	14	5	19	124	0.1	10	0.2		
3+75E 07+50E	201	--	< 5	34	3	23	168	0.1	12	0.2		
3+75E 07+75E	201	--	< 5	33	2	11	159	0.2	7	0.3		
3+75E 08+00E	201	--	< 5	10	3	12	98	0.1	9	0.3		
3+75E 08+25E	201	--	5	96	3	24	263	0.1	9	0.2		
3+75E 08+50E	201	--	< 5	47	5	9	186	0.1	11	0.2		
3+75E 08+75E	201	--	< 5	21	4	14	132	0.1	7	0.2		
3+75E 09+00E	201	--	< 5	12	2	7	73	0.1	6	0.3		
3+75E 09+25E	201	--	< 5	18	5	6	118	0.1	6	0.2		
3+75E 09+50E	201	--	< 5	18	1	6	80	0.1	5	0.1		
3+75E 09+75E	201	--	< 5	13	6	8	199	0.1	9	0.1		
3+75E 10+00E	201	--	< 5	6	10	9	62	0.1	5	0.1		

CERTIFICATION : Ivan H Bucklen

Chemex Labs Ltd.
Analytical Chemists • Geochemists • Registered Assayers
212 BROOKSBANK AVE. NORTH VANCOUVER,
BRITISH COLUMBIA. CANADA V7J-2C1
PHONE (604) 984-0221

TO: EQUITY ENGINEERING LTD.
406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : BIM 88-01
Comments:

Date : 25-AUG-88
Invoice # : I-8821242
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8821242

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
3+75E 10+25E	201	--	< 5	11	11	11	150	0.1	5	0.1		
3+75E 10+50E	201	--	< 5	15	3	13	142	0.1	10	0.1		
3+75E 10+75E	201	--	10	17	5	12	183	0.1	12	0.1		
3+75E 11+00E	201	--	< 5	5	1	9	47	0.1	5	0.1		
3+75E 11+25E	201	--	< 5	12	3	9	142	0.1	7	0.2		
3+75E 11+50E	201	--	5	7	2	7	91	0.1	5	0.1		
3+75E 11+75E	201	--	< 5	7	1	16	58	0.1	5	0.1		
3+75E 12+00E	201	--	5	13	2	14	153	0.1	10	0.1		
3+75E 12+25E	201	--	5	10	3	9	110	0.1	10	0.1		
3+75E 12+50E	201	--	< 5	22	3	8	263	0.1	9	0.2		
3+75E 12+75E	201	--	5	17	1	13	148	0.1	5	0.1		
3+75E 13+00E	201	--	5	22	3	16	177	0.1	4	0.1		
3+75E 13+25E	201	--	10	25	6	14	104	0.1	6	0.4		
3+75E 13+50E	201	--	< 5	13	4	13	120	0.1	9	0.1		
3+75E 13+75E	201	--	< 5	31	3	20	147	0.1	7	0.1		
3+75E 14+00E	201	--	< 5	21	7	13	136	0.1	5	0.1		
3+75E 00+00W	201	--	< 5	11	4	14	94	0.1	10	0.4		
3+75E 00+25W	201	--	< 5	12	5	12	133	0.1	11	0.4		
3+75E 00+50W	201	--	< 5	15	5	12	107	0.1	15	0.4		
3+75E 00+75W	201	--	15	12	5	10	121	0.1	11	0.3		
3+75E 01+00W	201	--	< 5	9	5	12	69	0.1	7	0.4		
3+75E 01+25W	201	--	< 5	24	5	40	233	0.1	14	0.4		
3+75E 01+50W	201	--	< 5	14	1	9	186	0.1	7	0.1		
3+75E 01+75W	201	--	< 5	37	2	9	64	0.4	4	0.1		
3+75E 02+00W	201	--	< 5	16	5	13	170	0.2	7	0.1		
3+75E 02+25W	201	--	< 5	40	2	18	449	0.1	6	0.1		
3+75E 02+50W	201	--	< 5	18	5	14	195	0.2	240	0.8		
3+75E 02+75W	201	--	< 5	29	8	24	490	0.1	200	1.0		
3+75E 03+00W	201	--	< 5	40	5	12	171	0.1	24	0.4		
3+75E 03+25W	201	--	< 5	118	1	2	146	0.1	12	0.2		
3+75E 03+50W	201	--	< 5	38	4	24	249	0.5	9	0.2		
3+75E 03+75W	201	--	< 5	26	1	12	174	0.1	6	0.1		
3+75E 04+00W	201	--	< 5	20	2	11	127	0.1	9	0.1		
3+75E 04+25W	201	--	< 5	38	1	43	302	1.0	6	0.2		
3+75E 04+50W	201	--	5	29	2	30	187	0.4	5	0.4		
3+75E 04+75W	201	--	< 5	171	1	21	161	0.5	6	1.2		
3+75E 05+00W	201	--	20	45	2	20	224	0.1	9	0.4		
3+75E 05+25W	217	--	< 5	44	1	26	86	0.1	5	0.1		
3+75E 05+50W	201	--	10	283	2	1180	820	1.4	6	2.0		
3+75E 05+75W	201	--	5	44	1	44	226	0.4	3	0.2		

CERTIFICATION : Hart Bichler

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Page No. : 1
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CERTIFICATE OF ANALYSIS A8821242

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
3+75E 06+00W	201	--	10	155	1	30	297	0.9	5	0.2		
3+75E 06+25W	201	--	< 5	22	5	18	227	0.5	10	0.1		
3+75E 06+50W	201	--	< 5	16	4	13	268	0.3	10	0.2		
3+75E 06+75W	201	--	< 5	15	4	20	175	0.2	9	0.2		
3+75E 07+00W	201	--	< 5	44	1	18	207	0.3	9	0.4		
3+75E 07+25W	201	--	5	32	2	11	109	0.2	10	0.6		
3+75E 07+50W	201	--	< 5	26	2	8	186	0.1	9	0.3		
3+75E 07+75W	201	--	10	24	1	9	163	0.1	11	0.3		
3+75E 08+00W	201	--	5	37	2	6	194	0.1	14	0.2		
3+75E 08+25W	201	--	< 5	12	1	9	88	0.1	6	0.2		
3+75E 08+50W	201	--	15	7	1	8	32	0.1	4	0.1		
3+75E 08+75W	201	--	< 5	45	1	6	145	0.1	6	0.1		
3+75E 09+00W	201	--	5	16	3	10	167	0.1	7	0.2		
3+75E 09+25W	201	--	< 10	54	1	7	55	0.1	6	0.2		
3+75E 09+50W	201	--	30	79	5	32	132	0.5	53	0.4		
3+75E 09+75W	201	--	< 10	32	5	10	155	0.1	14	0.4		
3+75E 10+00W	201	--	5	8	3	13	139	0.1	6	0.1		
3+75E 10+25W	201	--	60	16	1	13	89	0.1	5	0.2		
3+75E 10+50W	201	--	< 5	13	1	10	138	0.1	6	0.2		
3+75E 10+75W	201	--	< 5	35	1	10	125	0.1	11	0.1		
3+75E 11+00W	201	--	< 5	15	1	9	117	0.1	7	0.2		
3+75E 11+25W	201	--	< 5	52	3	32	228	0.3	5	0.2		
3+75E 11+50W	201	--	10	16	1	8	127	0.1	4	0.1		
3+75E 11+75W	201	--	10	6	1	9	64	0.1	3	0.2		
3+75E 12+00W	201	--	5	10	1	14	66	0.2	3	0.2		
3+75E 12+25W	201	--	5	24	2	13	165	0.1	5	0.2		
3+75E 12+50W	201	--	< 5	10	2	9	158	0.1	7	0.2		
3+75E 12+75W	201	--	10	7	1	17	217	0.1	4	0.1		
3+75E 13+00W	201	--	5	29	1	500	348	0.8	5	0.1		
3+75E 13+25W	201	--	5	16	3	18	173	0.1	39	0.2		
3+75E 13+50W	201	--	5	7	1	17	109	0.1	22	0.2		
3+75E 13+75W	201	--	10	9	2	17	146	0.1	6	0.2		
3+75E 14+00W	201	--	< 5	13	6	14	225	0.6	10	0.2		
3+75E 14+25W	201	--	15	28	12	26	285	0.1	32	1.0		
3+75E 14+50W	201	--	< 5	6	1	33	298	0.1	16	0.2		
3+75E 14+75W	201	--	< 5	13	1	9	303	0.1	15	0.1		
3+75E 15+00W	201	--	< 5	7	1	8	200	0.1	5	0.1		
3+75E 15+25W	201	--	< 5	18	5	24	167	0.1	22	0.1		
3+75E 15+50W	201	--	< 10	2	1	3	24	0.1	3	0.1		
3+75E 15+75W	201	--	< 10	11	1	2	63	0.1	2	0.1		

CERTIFICATION : Ian Bichler

Chemex Labs Ltd.
Analytical Chemists • Geochemists • Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
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PHONE (604) 984-0221

TO: EQUITY ENGINEERING LTD.
406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : BIM 88-01
Comments:

Date : 25-AUG-88
Invoice # : I-8821242
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8821242

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
3+75E 16+00W	201	--	< 10	30	1	3	18	0.1	3	0.1		
3+75E 16+25W	201	--	< 5	83	1	7	70	0.6	10	0.1		
3+75E 16+50W	201	--	< 5	21	4	14	96	0.1	9	0.2		
3+75E 16+75W	201	--	< 5	40	6	12	119	0.1	22	0.2		
3+75E 17+00W	201	--	55	63	14	2	95	0.1	9	0.1		
3+75E 17+25W	201	--	< 10	104	3	13	342	0.6	150	0.2		
3+75E 17+50W	201	--	20	8	1	9	22	0.1	3	0.1		
3+75E 17+75W	201	--	< 5	26	3	9	94	0.1	9	0.2		
3+75E 18+00W	201	--	< 5	20	1	8	59	0.2	3	0.1		
3+75E 18+25W	201	--	< 5	11	5	13	66	0.5	39	0.1		
3+75E 18+50W	201	--	< 5	27	3	10	135	0.4	10	0.1		
3+75E 18+75W	201	--	5	24	1	12	37	0.1	3	0.1		
3+75E 19+00W	201	--	< 5	30	4	13	78	0.3	14	0.4		
3+75E 19+25W	201	--	240	14	1	10	36	0.1	3	0.1		
3+75E 19+50W	201	--	< 5	112	10	11	261	0.1	23	0.8		
3+75E 19+75W	201	--	< 5	8	1	1	15	0.1	4	0.2		
3+75E 20+00W	201	--	not/ss	12	1	3	39	0.1	3	0.2		
3+75E 20+25W	201	--	< 5	14	1	13	46	0.1	3	0.1		
3+75E 20+50W	201	--	< 5	39	3	11	106	0.1	15	0.1		
3+75E 21+25W	201	--	< 5	15	1	9	47	0.6	3	0.2		
3+75E 21+50W	201	--	< 5	54	1	8	15	0.3	2	0.1		
3+75E 21+75W	201	--	< 5	23	6	12	124	0.4	6	0.1		
3+75E 22+00W	201	--	< 5	39	8	15	184	0.4	14	0.2		
3+75E 22+25W	201	--	< 5	33	9	12	239	0.2	15	0.2		
3+75E 22+50W	201	--	< 5	42	5	10	160	0.1	7	0.2		
3+75E 22+75W	201	--	< 5	40	4	13	106	0.2	7	0.2		
3+75E 23+00W	201	--	< 5	31	4	4	57	0.1	9	0.4		
3+75E 23+25W	201	--	< 5	24	4	10	69	0.6	6	0.1		
3+75E 23+50W	201	--	< 5	54	5	8	242	0.1	15	not/ss		
3+75E 23+75W	201	--	< 5	20	3	9	99	0.1	7	0.4		
3+75E 24+00W	201	--	< 5	8	1	6	28	0.1	3	0.1		
3+75E 24+25W	201	--	< 5	5	1	7	10	0.1	2	0.1		
3+75E 24+50W	201	--	105	22	8	22	56	0.8	4	0.1		
3+75E 24+75W	201	--	< 5	59	12	18	196	0.4	7	0.4		
3+75E 25+00W	201	--	< 5	18	8	15	159	0.9	9	0.2		
3+75E 25+25W	201	--	< 5	15	6	14	94	0.3	7	0.2		
3+75E 25+50W	201	--	< 5	11	10	19	172	0.3	9	0.2		
3+75E 25+75W	201	--	< 5	17	34	14	117	0.3	7	0.1		
3+75E 26+00W	201	--	< 5	14	4	8	116	0.4	3	0.1		
3+75E 26+25W	201	--	< 5	32	19	21	100	0.5	14	0.2		

CERTIFICATION : Ian Bichler

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Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
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To: EQUITY ENGINEERING LTD.
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CERTIFICATE OF ANALYSIS A8821242

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
7+70E 7+25E	201	--	5	12	4	12	86	0.1	4	0.1		
7+70E 7+50E	201	--	< 5	11	2	11	53	0.2	3	0.2		
7+70E 7+75E	201	--	< 5	13	5	16	38	0.6	7	0.1		
7+70E 8+00E	201	--	20	56	16	11	77	0.2	3	0.1		
7+70E 8+25E	201	--	105	69	2	16	64	0.7	3	0.1		
7+70E 8+50E	201	--	< 5	20	2	11	36	0.3	3	0.1		
7+70E 8+75E	201	--	< 5	39	3	9	72	0.3	4	0.1		
7+70E 9+00E	201	--	< 10	34	2	5	89	0.2	3	0.1		
7+70E 9+25E	201	--	< 10	33	2	11	38	0.5	3	0.1		
7+70E 10+00E	201	--	20	30	3	9	48	0.3	5	0.1		
7+70E 10+25E	201	--	60	98	8	16	33	1.0	6	0.1		
7+70E 0+25W	201	--	< 5	11	7	19	52	0.3	10	0.1		
7+70E 0+50W	201	--	< 5	15	8	14	106	0.2	6	0.2		
7+70E 0+75W	201	--	< 5	14	4	12	45	0.3	5	0.1		
7+70E 1+00W	201	--	< 5	15	5	12	62	0.2	6	0.1		
7+70E 1+25W	201	--	5	14	6	14	52	0.4	4	0.1		
7+70E 1+50W	201	--	< 5	41	4	9	64	0.2	6	0.1		
7+70E 1+75W	201	--	< 5	18	8	14	68	0.2	5	0.1		
7+70E 2+00W	201	--	< 5	35	5	14	89	0.1	4	0.1		
7+70E 2+25W	201	--	< 5	13	3	7	49	0.2	5	0.1		
7+70E 2+50W	201	--	105	13	4	12	48	0.3	4	0.1		
7+70E 2+75W	201	--	< 5	20	7	19	78	0.1	10	0.1		
7+70E 3+00W	201	--	< 5	20	3	12	70	0.2	10	0.1		
7+70E 3+25W	201	--	< 5	17	4	16	77	0.3	10	0.1		
7+70E 3+50W	201	--	< 5	13	5	18	59	0.2	17	0.8		
7+70E 3+75W	201	--	< 5	18	2	9	40	0.1	6	0.1		
7+70E 4+00W	201	--	< 5	35	2	14	47	0.2	5	0.1		
7+70E 4+25W	201	--	< 5	20	6	15	53	0.1	9	0.1		
7+70E 4+50W	201	--	< 5	22	5	14	122	0.1	7	0.2		
7+70E 4+75W	201	--	15	24	5	10	89	0.4	11	0.1		
7+70E 5+00W	201	--	< 5	23	5	11	84	0.2	11	0.1		
7+70E 5+25W	201	--	< 5	22	6	19	51	0.5	10	0.1		
7+70E 5+50W	201	--	< 5	17	4	10	61	0.2	6	0.1		
7+70E 5+75W	201	--	5	28	2	6	74	0.1	5	0.1		
7+70E 6+00W	201	--	< 5	13	7	21	81	0.2	14	0.1		
7+70E 6+25W	201	--	< 5	22	5	16	57	0.2	10	0.1		
7+70E 6+50W	201	--	< 5	21	4	12	56	0.2	10	0.1		
7+70E 6+75W	201	--	< 10	14	1	3	30	0.1	3	0.1		
7+70E 7+00W	201	--	< 5	17	3	13	110	0.1	9	0.1		
7+70E 7+25W	201	--	< 5	29	1	12	120	0.2	15	0.1		

CERTIFICATION : Ian Bichler

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SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
3+75E 26+50W	201	--	10	21	12	17	161	0.3	12	0.2		
3+75E 26+75W	201	--	15	7	16	8	31	0.7	3	0.1		
3+75E 27+00W	201	--	< 5	53	110	4	105	0.5	5	0.1		
3+75E 27+25W	201	--	5	78	23	4	66	0.3	4	0.1		
3+75E 27+50W	201	--	< 10	9	1	1	20	0.1	6	0.1		
3+75E 27+75W	201	--	< 10	24	5	5	38	0.3	3	0.1		
3+75E 28+00W	201	--	< 5	43	3	8	79	0.4	15	0.2		
3+75E 28+25W	201	--	< 5	21	7	18	230	0.2	9	0.4		
3+75E 28+50W	201	--	30	59	12	25	110	0.3	7	0.2		
3+75E 28+75W	201	--	< 5	101	4	152	328	1.6	4	0.2		
3+75E 29+00W	201	--	< 10	18	2	10	36	0.2	2	0.1		
7+70E 00+00E	201	--	< 5	29	4	13	107	0.1	7	0.2		
7+70E 00+25E	201	--	< 5	39	3	14	56	0.4	4	0.1		
7+70E 00+50E	201	--	< 5	16	4	12	66	0.1	3	0.1		
7+70E 00+75E	201	--	< 5	23	4	15	75	0.1	5	0.1		
7+70E 01+00E	201	--	< 5	13	1	13	41	0.2	3	0.1		
7+70E 01+25E	201	--	< 5	11	4	10	40	0.1	3	0.2		
7+70E 01+50E	201	--	< 5	14	5	10	46	0.3	15	0.1		
7+70E 01+75E	201	--	< 5	30	6	12	94	0.1	7	0.4		
7+70E 02+00E	201	--	< 5	32	3	12	82	0.2	4	0.1		
7+70E 02+25E	201	--	< 5	22	2	8	63	0.1	3	0.1		
7+70E 02+50E	201	--	< 5	20	3	10	87	0.1	5	0.1		
7+70E 02+75E	201	--	< 5	31	5	11	61	0.3	6	0.1		
7+70E 03+00E	201	--	< 5	85	6	16	69	0.8	5	0.1		
7+70E 03+25E	201	--	< 5	28	8	12	53	0.5	7	0.1		
7+70E 03+50E	201	--	< 5	17	5	18	91	0.1	6	0.1		
7+70E 03+75E	201	--	< 5	23	4	11	62	0.5	9	0.1		
7+70E 04+00E	201	--	< 5	45	1	12	61	0.7	17	0.1		
7+70E 04+25E	201	--	< 5	92	5	55	133	1.1	280	1.0		
7+70E 04+50E	201	--	< 5	132	5	15	58	1.0	29	0.2		
7+70E 04+75E	201	--	< 5	32	1	12	74	0.5	3	0.1		
7+70E 05+00E	201	--	< 5	16	4	11	88	0.2	6	0.1		
7+70E 05+25E	201	--	< 10	14	4	11	60	0.2	5	0.1		
7+70E 05+50E	201	--	< 5	15	3	14	39	0.3	3	0.1		
7+70E 05+75E	201	--	< 5	12	5	17	51	0.1	9	0.1		
7+70E 06+00E	201	--	< 5	19	5	17	55	0.8	3	0.1		
7+70E 06+25E	201	--	< 5	33	6	17	59	0.5	7	0.1		
7+70E 06+50E	201	--	< 5	35	4	14	179	0.5	7	0.1		
7+70E 06+75E	201	--	< 5	41	4	12	79	0.6	3	0.1		
7+70E 07+00E	201	--	< 5	12	6	14	67	0.1	7	0.2		

CERTIFICATION : Hart Bichler

Chemex Labs Ltd.
Analytical Chemists • Geochemists • Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

[QUI[illegible]NGIN[illegible]NG
406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : BIM 88-01
Comments:

Pa[illegible]
Tot. Pages: 4
Date : 10-SEP-88
Invoice # : I-8822272
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822272

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
575E 0+00	201	--	< 5	12	1	19	39	0.2	6	0.1		
575E 0+25W	201	--	15	10	1	20	42	0.3	5	0.1		
575E 0+50W	201	--	< 5	8	3	13	43	0.2	5	0.2		
575E 0+75W	201	--	< 5	20	4	17	80	0.3	7	0.1		
575E 1+00W	201	--	< 5	16	4	20	57	0.4	7	0.1		
575E 1+25W	201	--	< 5	43	2	20	114	0.4	10	0.1		
575E 1+50W	201	--	< 5	23	1	14	70	0.3	5	0.1		
575E 1+75W	201	--	< 5	13	4	19	95	0.2	10	0.1		
575E 2+00W	201	--	290	29	1	14	100	0.2	6	0.1		
575E 2+25W	201	--	< 5	16	3	13	114	0.4	9	0.1		
575E 2+50W	201	--	< 5	36	4	11	245	0.3	16	0.1		
575E 2+75W	201	--	< 5	46	3	13	150	0.4	63	0.1		
575E 3+00W	201	--	< 5	18	5	19	138	0.3	15	0.1		
575E 3+25W	201	--	< 5	33	3	10	96	1.0	16	0.1		
575E 3+50W	201	--	< 5	24	1	9	73	0.5	7	0.1		
575E 3+75W	201	--	< 5	34	3	8	92	0.4	12	0.1		
575E 4+00W	201	--	< 5	30	5	16	98	0.2	12	0.1		
575E 4+25W	201	--	10	155	4	440	220	1.6	200	0.2		
575E 4+50W	201	--	5	138	3	9	180	0.8	63	0.1		
575E 4+75W	201	--	2170	76	2	19	255	0.6	33	0.1		
575E 5+00W	201	--	< 5	95	1	69	340	0.5	150	0.1		
575E 5+25W	201	--	< 5	17	5	17	102	0.3	12	0.1		
575E 5+50W	201	--	< 5	27	3	17	222	0.2	27	0.2		
575E 5+75W	201	--	10	87	4	113	330	2.7	540	3.4		
575E 6+00W	201	--	< 5	32	12	30	92	0.4	57	1.0		
575E 6+25W	201	--	< 5	13	1	16	52	0.2	4	0.2		
575E 6+50W	201	--	< 5	36	2	27	102	0.7	35	0.2		
575E 6+75W	201	--	< 5	14	5	15	155	0.5	15	0.1		
575E 7+00W	201	--	< 5	13	5	14	131	0.2	15	0.1		
575E 7+25W	201	--	< 5	70	7	10	270	0.7	140	1.0		
575E 7+50W	201	--	< 5	32	6	16	250	0.3	51	0.1		
575E 7+75W	201	--	< 5	11	2	6	122	0.2	9	0.1		
575E 8+00W	201	--	< 5	11	3	10	164	0.3	10	0.1		
575E 8+25W	201	--	< 5	13	3	15	265	0.2	22	0.1		
575E 8+50W	201	--	< 5	13	1	13	195	0.3	16	0.1		
575E 8+75W	201	--	< 5	11	2	9	145	0.4	16	0.1		
575E 9+00W	201	--	< 5	15	1	8	64	0.3	10	0.8		
575E 9+25W	201	--	< 5	19	5	11	130	0.6	12	0.2		
575E 9+50W	201	--	40	18	4	11	94	0.4	9	0.1		
575E 9+75W	201	--	< 5	22	4	13	185	0.6	11	0.1		

CERTIFICATION : Stuart Bichler

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE. NORTH VANCOUVER,
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PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.
406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : BIM 88-01
Comments:

Date : 25-AUG-88
Invoice # : I-8821242
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8821242

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
7+70E 7+50W	201	--	< 5	41	1	20	299	0.2	10	0.1		
7+70E 7+75W	201	--	< 5	28	8	23	112	0.6	15	0.1		
7+70E 8+00W	201	--	< 5	23	3	15	86	0.7	15	0.1		
7+70E 8+25W	201	--	< 5	19	2	13	108	0.3	9	0.1		
7+70E 8+50W	201	--	< 5	39	1	11	243	0.2	29	0.1		
7+70E 8+75W	201	--	< 5	20	1	9	98	0.1	7	0.1		
7+70E 9+00W	201	--	70	28	2	7	107	0.1	6	0.1		

CERTIFICATION : Hart Bichler

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PHONE (604) 984-0221

[illegible] ENGINEERING
406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : BIM 88-01
Comments:

Page No. :
Total Pages:
Date : 10-SEP-88
Invoice # : I-8822272
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822272

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
575E 20+25W	201	--	10	25	1	7	46	0.5	6	0.1		
575E 20+50W	201	--	< 5	41	5	16	96	0.5	9	0.1		
575E 0+25E	201	--	< 5	11	1	9	38	0.2	3	0.1		
575E 0+50E	201	--	< 5	24	5	14	130	0.1	11	0.2		
575E 0+75E	201	--	< 5	13	5	14	78	0.3	12	0.4		
575E 1+00E	201	--	< 5	12	4	13	65	0.1	10	0.2		
575E 1+25E	201	--	< 5	7	1	15	40	0.3	4	0.1		
575E 1+50E	201	--	< 5	27	5	10	98	0.4	9	0.1		
575E 1+75E	201	--	< 5	20	3	12	140	0.2	9	0.2		
575E 2+00E	201	--	< 5	7	1	8	30	0.3	3	0.1		
575E 2+25E	201	--	< 5	25	4	14	162	0.3	11	0.1		
575E 2+50E	201	--	< 5	29	5	13	100	0.2	16	0.2		
575E 2+75E	201	--	< 5	9	1	7	36	0.3	4	0.1		
575E 3+00E	201	--	< 5	22	2	15	48	0.4	6	0.1		
575E 3+25E	201	--	5	29	1	10	65	1.2	5	0.1		
575E 3+50E	201	--	< 5	18	2	9	60	0.1	5	0.1		
575E 3+75E	201	--	< 5	66	2	5	39	0.2	5	0.1		
575E 4+00E	201	--	< 5	31	4	18	44	1.3	6	0.1		
575E 4+25E	201	--	< 5	12	1	13	48	0.4	4	0.1		
575E 4+50E	201	--	< 5	12	1	38	38	2.3	6	0.1		
575E 4+75E	201	--	< 5	16	2	15	88	0.3	9	0.2		
575E 5+00E	201	--	< 5	38	1	40	71	0.6	6	0.1		
575E 5+25E	201	--	5	65	1	41	70	0.9	4	0.1		
575E 5+50E	201	--	5	54	2	30	46	0.1	5	0.1		
575E 5+75E	201	--	< 5	17	1	12	32	0.3	3	0.1		
575E 6+00E	201	--	< 5	21	4	13	70	0.2	9	0.1		
575E 6+25E	201	--	< 5	18	3	15	150	0.1	10	0.4		
575E 6+50E	201	--	< 5	13	3	7	46	0.1	9	0.2		
575E 6+75E	201	--	< 5	22	3	10	95	0.2	6	0.1		
575E 7+00E	201	--	< 5	7	1	15	22	0.2	4	0.1		
575E 7+25E	201	--	< 5	8	2	12	30	0.1	5	0.1		
575E 7+50E	201	--	< 5	14	5	14	103	0.1	9	0.1		
575E 7+75E	201	--	< 5	5	1	16	22	0.1	4	0.1		
575E 8+00E	201	--	< 5	7	1	9	22	0.1	3	0.1		
575E 8+25E	201	--	< 5	10	2	11	90	0.1	5	0.1		
575E 8+50E	201	--	< 5	10	1	12	25	0.1	3	0.1		
575E 8+75E	201	--	< 5	10	2	14	48	0.2	4	0.1		
575E 9+00E	201	--	< 5	10	4	14	72	0.1	10	0.2		
575E 9+25E	201	--	< 5	12	3	14	67	0.2	7	0.1		
575E 9+50E	201	--	< 5	15	3	9	89	0.2	7	0.1		

CERTIFICATION : Hart Bichler

Chemex Labs Ltd.
Analytical Chemists • Geochemists • Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: EQUITY ENGINEERING LTD.
406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : BIM 88-01
Comments:

Date : 10-SEP-88
Invoice # : I-8822272
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822272

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
575E 10+00W	201	--	< 5	42	4	11	175	0.2	12	0.1		
575E 10+25W	201	--	< 5	114	11	16	405	0.7	22	1.2		
575E 10+50W	201	--	< 5	30	3	11	138	0.4	10	0.1		
575E 10+75W	201	--	< 5	25	4	11	102	0.6	11	0.1		
575E 11+00W	201	--	< 5	15	4	11	93	0.7	12	0.1		
575E 11+25W	201	--	< 5	26	3	16	112	0.4	19	0.1		
575E 11+50W	201	--	< 5	33	4	16	98	0.6	12	0.2		
575E 11+75W	201	--	< 5	24	5	15	100	0.7	14	0.1		
575E 12+00W	201	--	< 5	26	3	7	57	0.4	10	0.1		
575E 12+25W	201	--	< 5	20	6	12	98	0.3	12	0.1		
575E 12+50W	201	--	< 5	13	3	11	51	0.2	6	0.1		
575E 12+75W	201	--	< 5	23	5	11	80	0.4	14	0.2		
575E 13+00W	201	--	< 5	22	6	15	126	0.3	9	0.3		
575E 13+25W	201	--	< 5	50	2	11	120	1.0	7	0.2		
575E 13+50W	201	--	< 5	44	4	12	200	0.7	14	0.1		
575E 13+75W	201	--	< 5	42	2	17	90	0.4	7	0.1		
575E 14+00W	201	--	< 5	41	4	13	210	0.6	10	0.1		
575E 14+25W	201	--	< 5	12	1	12	44	0.2	5	0.1		
575E 14+50W	201	--	< 5	16	4	17	112	0.5	15	0.1		
575E 14+75W	201	--	< 5	10	1	12	46	0.3	6	0.1		
575E 15+00W	201	--	< 5	31	4	15	126	0.2	12	0.2		
575E 15+25W	201	--	< 5	17	2	14	65	0.2	6	0.1		
575E 15+50W	201	--	< 5	24	4	14	90	0.4	10	0.1		
575E 15+75W	201	--	< 5	28	4	11	94	0.2	11	0.1		
575E 16+00W	201	--	< 5	15	4	14	102	0.2	11	0.1		
575E 16+25W	201	--	30	44	4	96	208	0.3	14	0.1		
575E 16+50W	201	--	< 5	32	5	19	190	0.2	14	0.1		
575E 16+75W	201	--	< 5	24	4	18	56	0.2	19	0.1		
575E 17+00W	201	--	< 5	19	3	20	80	0.5	7	0.1		
575E 17+25W	201	--	< 5	93	2	10	62	0.2	7	0.1		
575E 17+50W	201	--	< 5	190	21	62	105	0.5	850	1.2		
575E 17+75W	201	--	< 5	60	6	19	100	1.3	17	0.1		
575E 18+00W	201	--	< 5	93	12	15	80	0.4	19	0.1		
575E 18+25W	201	--	230	228	45	34	74	0.8	120	1.4		
575E 18+50W	201	--	< 5	56	2	14	54	0.5	11	0.1		
575E 18+75W	201	--	< 5	73	24	15	63	0.4	20	0.1		
575E 19+00W	201	--	< 5	56	5	18	95	0.5	24	0.1		
575E 19+25W	201	--	< 5	48	4	23	113	0.7	14	0.1		
575E 19+50W	201	--	< 5	215	4	15	94	1.5	14	0.1		
575E 19+75W	201	--	< 5	60	4	21	75	0.5	12	0.1		

CERTIFICATION : Ian Bickler

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PHONE (604) 984-0221

QUILL ENGINEERING

406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : BIM 88-01
Comments: ATTN: HENRY AWMACK

Page :
Tot. Pages: 3
Date : 18-SEP-88
Invoice # : I-8822812
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822812

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
335W 0+00	201	--	< 5	77	2	2	190	0.3	10	0.2		
335W 0+25N	201	--	< 5	53	2	1	77	0.4	9	0.4		
335W 0+50N	201	--	25	56	3	50	110	0.5	16	1.0		
335W 0+75N	201	--	< 5	60	1	8	165	0.4	29	0.8		
335W 1+00N	201	--	< 5	74	1	2	85	0.6	39	1.8		
335W 1+25N	201	--	< 5	60	2	4	215	0.4	39	0.8		
335W 1+50N	201	--	15	75	2	14	195	0.5	45	2.4		
335W 1+75N	201	--	< 5	17	2	110	1200	2.2	30	4.8		
335W 2+00N	201	--	< 5	20	5	10	108	0.6	15	0.8		
335W 2+25N	201	--	< 5	25	6	10	118	0.8	16	0.6		
335W 2+50N	201	--	< 5	28	6	2	70	0.4	14	0.3		
335W 2+75N	201	--	< 5	45	1	1	106	0.5	11	0.2		
335W 3+00N	201	--	< 5	23	3	11	82	0.5	14	0.6		
335W 3+25N	201	--	< 5	21	6	9	94	0.7	15	0.7		
335W 3+50N	201	--	< 5	27	1	2	160	0.4	6	0.1		
335W 3+75N	201	--	< 5	51	1	2	152	0.4	7	0.2		
335W 4+00N	201	--	< 5	41	1	1	98	0.5	3	0.1		
335W 4+25N	201	--	< 5	13	3	10	90	0.3	11	0.6		
335W 4+50N	201	--	< 5	40	1	8	126	0.5	5	0.2		
335W 4+75N	201	--	< 5	53	1	8	156	0.6	9	0.2		
335W 0+25S	201	--	< 5	60	3	4	128	0.3	12	0.4		
335W 0+50S	201	--	< 5	206	3	6	124	0.6	7	0.2		
335W 0+75S	201	--	< 5	55	3	4	160	0.4	11	0.4		
335W 1+00S	201	--	< 5	30	3	8	260	0.3	11	0.4		
335W 1+25S	201	--	< 5	38	2	2	100	0.3	5	0.4		
335W 1+50S	201	--	< 5	43	2	4	52	0.5	9	0.2		
335W 1+75S	201	--	< 10	6	1	24	20	0.5	3	0.2		
335W 2+00S	201	--	< 5	21	2	5	40	0.5	5	0.6		
335W 2+25S	201	--	< 5	27	1	6	84	0.5	7	0.2		
335W 2+50S	201	--	25	186	13	12	86	1.7	55	2.4		
335W 2+75S	201	--	< 5	58	1	8	126	0.4	14	0.8		
335W 3+00S	201	--	< 5	78	1	6	114	0.5	10	0.1		
335W 3+25S	201	--	< 5	23	3	10	160	0.4	14	0.6		
335W 3+50S	201	--	< 5	37	3	8	170	0.4	10	0.5		
335W 3+75S	201	--	< 5	112	2	1	170	0.3	6	0.2		
335W 4+00S	201	--	< 5	138	3	4	146	0.3	7	0.2		
335W 4+25S	201	--	< 5	43	2	2	108	0.4	4	0.1		
335W 4+50S	201	--	< 5	74	5	10	88	0.5	10	0.3		
335W 4+75S	201	--	< 5	17	2	8	44	0.5	9	0.7		
335W 5+00S	201	--	< 5	55	2	4	64	0.4	6	0.6		

CERTIFICATION : Stuart Buchler

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

QUI[illegible]NGIN[illegible]NG
406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : BIM 88-01
Comments:

Pa[illegible]
Tot. Pages: 4
Date : 10-SEP-88
Invoice # : I-8822272
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822272

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
575E 9+75E	201	--	< 5	18	4	15	90	0.1	12	0.1		
575E 10+00E	201	--	< 5	19	6	14	138	0.1	11	0.2		
575E 10+25E	201	--	< 5	15	8	17	108	0.1	12	0.2		
575E 10+50E	201	--	< 5	11	8	13	54	0.2	5	0.1		
575E 10+75E	201	--	< 5	11	10	12	90	0.1	9	0.1		
575E 11+00E	201	--	< 5	11	2	12	57	0.1	3	0.1		
575E 11+25E	217	--	< 5	38	3	15	39	0.3	7	0.1		
575E 11+50E	201	--	180	108	4	26	130	0.5	22	0.1		
575E 11+75E	217	--	< 5	28	1	8	70	0.1	4	0.1		
575E 12+00E	217	--	< 5	11	2	11	38	0.1	5	0.1		
770E 9+25W	201	--	< 5	13	1	10	126	0.1	32	0.1		
770E 9+50W	201	--	< 5	23	1	5	40	0.6	7	0.1		
770E 9+75W	201	--	< 5	18	2	9	80	0.2	17	0.1		
770E 10+00W	201	--	< 5	35	2	19	155	1.0	29	0.1		
770E 10+25W	201	--	< 5	78	2	41	265	1.8	12	0.1		
770E 10+50W	201	--	< 5	34	1	20	113	0.2	5	0.1		
770E 10+75W	217	--	< 5	20	1	12	42	0.1	4	0.1		
770E 11+00W	201	--	< 5	71	1	23	100	0.3	11	0.1		
770E 11+25W	217	--	< 5	11	1	10	52	0.2	3	0.1		
770E 11+50W	201	--	< 5	19	6	42	116	0.4	24	0.1		
770E 11+75W	201	--	< 5	35	3	15	36	2.0	7	0.1		
770E 12+00W	217	--	< 5	23	3	16	32	0.2	10	0.2		
770E 12+25W	201	--	< 5	20	6	20	76	0.9	10	0.1		
770E 12+50W	217	--	< 5	102	1	42	310	0.9	7	0.1		
770E 12+75W	201	--	15	107	3	51	68	1.2	5	0.1		
770E 13+00W	201	--	< 5	16	3	28	50	0.2	7	0.1		
770E 13+25W	217	--	< 5	7	2	11	14	0.4	3	0.1		
770E 13+50W	201	--	< 5	30	6	20	162	0.7	11	0.1		
770E 13+75W	201	--	5	38	1	15	42	0.6	7	0.1		
770E 14+00W	201	--	< 5	32	2	13	37	0.4	10	0.1		
770E 14+25W	201	--	< 5	29	3	24	81	0.8	10	0.1		
770E 14+50W	201	--	20	66	2	16	28	0.3	4	0.1		
770E 14+75W	217	--	15	60	2	10	62	1.0	7	0.1		
770E 15+00W	217	--	125	23	1	13	43	0.9	4	0.1		

CERTIFICATION : Hartt Bichler

Chemex Labs Ltd.
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212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

T. QUIT IGIN NG I

406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : BIM 88-01
Comments: ATTN: HENRY AMMACK

Pa
Tot. Pages: 5
Date : 18-SEP-88
Invoice # : I-8822812
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822812

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
335W 15+25S	201	--	125	305	1	2	250	0.2	3	0.2		
335W 15+50S	201	--	< 10	112	1	1	164	0.2	3	0.1		
335W 15+75S	201	--	< 10	17	5	10	86	0.6	9	0.4		
335W 16+00S	201	--	< 10	33	1	4	80	0.2	3	0.1		
335W 16+25S	201	--	< 10	70	3	3	148	0.4	4	0.2		
335W 16+50S	201	--	< 5	47	3	2	138	0.2	4	0.4		
335W 16+75S	201	--	10	72	2	2	150	0.3	4	0.2		
335W 17+00S	201	--	5	36	2	2	132	0.4	4	0.4		
335W 17+25S	201	--	< 5	8	1	4	40	0.3	4	0.4		
335W 17+50S	201	--	< 5	50	3	1	110	0.2	6	0.3		
370W 5+00N	201	--	< 10	156	3	12	300	0.3	10	0.1		
370W 5+25N	201	--	< 5	27	1	1	88	0.2	3	0.3		
370W 5+50N	201	--	< 10	27	2	2	110	0.3	3	0.1		
370W 5+75N	201	--	< 10	23	5	8	94	0.2	6	0.6		
370W 6+00N	201	--	< 5	28	7	12	140	0.4	11	0.7		
370W 6+25N	201	--	10	20	3	8	154	0.2	11	0.7		
370W 6+50N	201	--	< 5	55	2	2	98	0.3	5	0.4		
370W 6+75N	201	--	10	20	1	6	78	0.3	3	0.1		
370W 7+00N	201	--	5	18	5	14	76	0.4	7	0.8		
525W 0+00N	201	--	< 5	42	3	1	76	0.3	5	0.6		
525W 0+25N	201	--	< 5	54	3	4	108	0.3	6	0.4		
525W 0+50N	201	--	< 5	92	3	3	128	0.3	7	0.3		
525W 0+75N	201	--	< 10	44	1	8	42	0.2	3	0.1		
525W 1+00N	201	--	< 10	49	2	8	56	0.5	3	0.2		
525W 1+25N	201	--	< 5	52	1	1	80	0.1	3	0.1		
525W 1+50N	201	--	< 5	210	3	1	90	0.2	4	0.1		
525W 1+75N	201	--	< 5	158	1	4	68	0.3	3	0.1		
525W 2+00N	201	--	< 10	107	2	16	92	0.2	3	0.2		
525W 2+25N	201	--	< 10	80	1	4	60	0.4	3	0.1		
525W 2+50N	201	--	< 5	72	5	4	90	0.4	7	0.4		
525W 2+75N	201	--	< 5	41	2	1	58	0.3	3	0.1		
525W 3+00N	201	--	< 5	24	2	2	40	0.2	3	0.2		
525W 3+25N	201	--	< 5	20	2	6	30	7.7	4	0.4		
525W 3+50N	201	--	< 5	72	1	1	84	0.5	3	0.2		
525W 3+75N	201	--	< 5	72	3	2	184	0.4	5	0.4		
525W 4+00N	201	--	< 5	29	1	2	40	0.5	3	0.2		
525W 4+25N	201	--	< 5	54	2	2	64	0.4	6	0.2		
525W 4+50N	201	--	40	91	1	1	62	0.4	4	0.1		
525W 4+75N	201	--	< 5	158	4	8	104	0.3	15	0.3		
525W 5+00N	201	--	< 10	155	2	4	124	0.8	9	0.1		

CERTIFICATION : Stewart Buchler

Chemex Labs Ltd.
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212 BROOKSBANK AVE. NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

TO: EQUITY ENGINEERING LTD.
406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : BIM 88-01
Comments: ATTN: HENRY AWMACK

Date : 18-SEP-88
Invoice # : I-8822812
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822812

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
335W 5+25S	201	--	< 5	52	35	46	580	1.7	23	0.6		
335W 5+50S	201	--	5	145	17	22	470	0.7	22	0.7		
335W 5+75S	201	--	< 5	102	2	12	118	0.5	9	0.1		
335W 6+00S	201	--	< 5	89	3	11	104	0.3	5	0.2		
335W 6+25S	201	--	< 5	360	1	4	138	0.5	5	0.1		
335W 6+50S	201	--	< 5	88	3	10	260	0.6	6	0.2		
335W 6+75S	201	--	< 10	16	1	10	40	0.7	4	0.2		
335W 7+00S	201	--	< 5	23	2	10	74	0.4	6	0.4		
335W 7+25S	201	--	< 5	86	2	2	124	0.3	5	0.1		
335W 7+50S	201	--	< 5	8	1	2	52	0.4	4	0.3		
335W 7+75S	201	--	< 5	104	1	1	134	0.4	6	0.1		
335W 8+00S	201	--	< 5	78	2	8	184	0.5	12	0.5		
335W 8+25S	201	--	< 5	31	1	6	70	0.4	3	0.1		
335W 8+50S	201	--	< 5	170	2	1	190	0.3	3	0.1		
335W 8+75S	201	--	< 5	175	1	2	140	0.5	9	0.4		
335W 9+00S	201	--	< 5	140	1	4	156	0.3	3	0.1		
335W 9+25S	201	--	< 10	30	1	3	68	0.3	3	0.1		
335W 9+50S	201	--	< 5	18	1	2	80	0.3	3	0.1		
335W 9+75S	201	--	10	60	2	3	96	0.4	9	0.2		
335W 10+00S	201	--	< 5	16	1	4	66	0.3	3	0.1		
335W 10+25S	201	--	< 5	23	1	2	88	0.1	4	0.1		
335W 10+50S	201	--	< 5	64	2	4	94	0.2	4	0.3		
335W 10+75S	201	--	< 10	14	2	8	50	0.1	6	0.4		
335W 11+00S	201	--	< 5	68	1	3	88	0.2	4	0.2		
335W 11+25S	201	--	< 5	38	1	4	106	0.3	4	0.1		
335W 11+50S	201	--	< 5	30	1	3	76	0.3	3	0.1		
335W 11+75S	201	--	< 5	47	1	8	130	0.2	6	0.1		
335W 12+00S	201	--	< 5	220	2	2	136	0.1	3	0.1		
335W 12+25S	201	--	60	120	1	1	146	0.1	3	0.1		
335W 12+50S	201	--	< 5	46	1	2	84	0.3	3	0.2		
335W 12+75S	201	--	< 10	40	1	1	60	0.3	3	0.2		
335W 13+00S	201	--	< 10	62	1	2	78	0.2	3	0.1		
335W 13+25S	201	--	< 5	38	1	8	106	0.2	3	0.2		
335W 13+50S	201	--	< 5	56	1	4	120	0.1	3	0.1		
335W 13+75S	201	--	10	220	2	10	500	0.2	9	0.1		
335W 14+00S	201	--	10	30	3	6	110	0.8	4	not/ss		
335W 14+25S	201	--	10	108	3	4	150	0.3	5	0.3		
335W 14+50S	201	--	20	61	1	2	78	0.3	3	0.1		
335W 14+75S	201	--	< 10	66	1	1	110	0.2	4	0.2		
335W 15+00S	201	--	5	72	1	1	100	0.1	3	0.1		

CERTIFICATION : Hart Bichler

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406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : BIM 88-01
Comments: ATTN: HENRY AWMACK

Page : 5
Tot. Pages: 5
Date : 18-SEP-88
Invoice # : I-8822812
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822812

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
525W 6+75S	201	--	< 5	32	4	14	94	0.2	9	0.2		
525W 7+00S	201	--	< 5	55	1	1	94	0.1	3	0.4		
525W 7+25S	201	--	15	432	1	2	148	0.1	3	0.1		
525W 7+50S	201	--	5	47	1	2	78	0.1	4	0.4		
525W 7+75S	201	--	< 5	120	1	1	92	0.2	3	0.2		
525W 8+00S	201	--	< 5	20	1	6	60	0.2	3	0.4		
525W 8+25S	201	--	< 5	65	1	2	76	0.3	3	0.5		
525W 8+50S	201	--	10	108	2	1	128	1.5	5	0.2		
525W 8+75S	201	--	< 5	90	1	2	90	0.3	4	0.2		
525W 9+00S	201	--	< 5	36	1	10	78	0.1	3	0.4		
525W 9+25S	201	--	< 5	19	6	12	68	0.4	11	0.6		
525W 9+50S	201	--	< 5	21	4	8	58	0.1	6	0.8		
525W 9+75S	201	--	< 5	12	5	10	40	0.3	9	0.6		
525W 10+00S	201	--	< 5	12	5	16	38	0.1	11	0.7		
525W 10+25S	201	--	< 5	32	3	8	130	0.1	9	0.8		
525W 10+50S	201	--	10	18	3	16	88	0.2	9	0.7		
525W 10+75S	201	--	< 5	33	4	38	134	0.3	5	0.7		
525W 11+00S	201	--	< 5	23	4	66	78	0.6	5	0.4		

CERTIFICATION : Stewart Buchler

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BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

[illegible] QUIT[illegible] IGIN[illegible] NG [illegible]
406 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2
Project : BIM 88-01
Comments: ATTN: HENRY AWMACK

Pa[illegible] :[illegible]
To[illegible] rages: 3
Date : 18-SEP-88
Invoice # : I-8822812
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8822812

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm Aqua R	As ppm	Sb ppm		
525W 5+25N	201	--	< 5	93	1	2	70	0.4	6	0.2		
525W 5+50N	201	--	< 5	140	1	1	94	0.5	3	0.1		
525W 6+00N	201	--	< 5	54	1	4	32	0.6	5	0.2		
525W 6+25N	201	--	< 5	74	1	2	54	1.0	3	0.3		
525W 6+50N	201	--	< 10	73	1	1	84	0.4	3	0.1		
525W 6+75N	201	--	< 10	198	1	1	92	0.7	10	0.2		
525W 7+00N	201	--	< 5	55	2	2	70	0.4	5	0.2		
525W 7+25N	201	--	< 10	27	1	1	58	0.8	4	0.2		
525W 7+50N	201	--	< 5	44	1	1	76	0.3	3	0.2		
525W 7+75N	201	--	< 5	24	2	4	78	0.2	6	0.1		
525W 8+00N	201	--	< 5	49	5	10	70	0.3	11	0.4		
525W 8+25N	201	--	< 5	107	1	1	170	0.3	3	0.2		
525W 8+50N	201	--	< 5	115	1	2	110	0.2	5	0.4		
525W 8+75N	201	--	10	15	1	3	34	0.4	5	0.5		
525W 0+25S	201	--	< 5	55	1	12	140	0.2	4	0.1		
525W 0+50S	201	--	< 5	41	5	8	122	0.3	11	0.5		
525W 0+75S	201	--	< 5	22	5	8	100	0.3	10	0.4		
525W 1+00S	201	--	< 10	14	3	9	70	0.3	14	0.5		
525W 1+25S	201	--	not/ss	7	4	6	52	0.2	9	0.6		
525W 1+50S	201	--	< 10	50	3	4	70	0.1	3	0.1		
525W 1+75S	201	--	80	86	1	3	82	0.2	3	0.1		
525W 2+00S	201	--	40	2750	1	1	150	2.6	5	0.4		
525W 2+25S	201	--	5	102	1	10	130	0.2	3	0.3		
525W 2+50S	201	--	< 5	177	3	10	128	0.2	5	0.7		
525W 2+75S	201	--	< 5	210	1	1	70	0.3	3	0.2		
525W 3+00S	201	--	< 5	31	1	1	90	0.1	3	0.2		
525W 3+25S	201	--	< 5	72	1	1	110	0.1	5	0.2		
525W 3+50S	201	--	20	103	1	2	120	0.2	3	0.1		
525W 3+75S	201	--	< 5	25	1	4	70	0.1	4	0.2		
525W 4+00S	201	--	< 5	220	1	1	138	0.1	3	0.3		
525W 4+25S	201	--	< 5	53	1	1	132	0.1	3	0.1		
525W 4+50S	201	--	< 5	15	1	1	66	0.2	3	0.3		
525W 4+75S	201	--	< 5	123	2	2	118	0.2	5	not/ss		
525W 5+00S	201	--	30	93	1	1	156	0.2	3	0.1		
525W 5+25S	201	--	< 5	46	1	1	94	0.2	3	0.3		
525W 5+50S	201	--	< 5	43	2	1	98	0.1	3	0.2		
525W 5+75S	201	--	< 5	108	1	1	192	0.2	3	0.2		
525W 6+00S	201	--	< 5	82	1	1	100	0.2	3	0.1		
525W 6+25S	201	--	< 5	82	1	1	100	0.1	3	0.3		
525W 6+50S	201	--	< 5	30	1	1	70	0.3	3	0.4		

CERTIFICATION : Ian Bichler

APPENDIX E

STATISTICAL ANALYSIS

EQUITY ENGINEERING - PROJECT BIM 88-01

VARIABLE:	Au ppb
NUMBER OF OBSERVATIONS:	577
DETECTION LIMIT:	5 ppb
MINIMUM:	2.000
MAXIMUM:	2170.000
MEAN:	10.565
STANDARD ERROR OF MEAN:	3.872
STANDARD DEVIATION:	92.998
COEFFICIENT OF VARIATION:	880.250
SKEWNESS:	21.818
KURTOSIS:	501.124

(Values <5 ppb --> 2 ppb)

DATA TITLE : EQUITY ENGINEERING - PROJECT BIM 88-01
VARIABLE : Au ppb

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	# OF SAMPLES	% OF TOTAL	CUM. %
0.000	**********	476	82.5	82.5
5.000	******	34	5.9	88.4
10.000	*****	24	4.2	92.5
15.000	II	10	1.7	94.3
20.000	II	8	1.4	95.7
25.000	I	2	0.3	96.0
30.000	I	4	0.7	96.7
35.000		0	0.0	96.7
40.000	I	3	0.5	97.2
45.000		0	0.0	97.2
50.000		0	0.0	97.2
55.000	I	1	0.2	97.4
60.000	I	3	0.5	97.9
65.000		0	0.0	97.9
70.000	I	1	0.2	98.1
75.000		0	0.0	98.1
80.000	I	1	0.2	98.3
85.000		0	0.0	98.3
90.000		0	0.0	98.3
95.000		0	0.0	98.3
100.000		0	0.0	98.3
105.000	I	3	0.5	98.8
110.000		0	0.0	98.8
115.000		0	0.0	98.8
120.000				
DATA ABOVE RANGE OF HISTOGRAM	II	7	1.2	100.0

EQUITY ENGINEERING - PROJECT BIM 88-01

VARIABLE:	Cu ppm
NUMBER OF OBSERVATIONS:	579
DETECTION LIMIT:	1 ppm
MINIMUM:	2.000
MAXIMUM:	2750.000
MEAN:	47.489
STANDARD ERROR OF MEAN:	5.074
STANDARD DEVIATION:	122.104
COEFFICIENT OF VARIATION:	257.121
SKEWNESS:	18.899
KURTOSIS:	411.842

DATA TITLE : EQUITY ENGINEERING - PROJECT BIM 88-01
VARIABLE : Cu

PERCENT OF THE TOTAL SAMPLES

LOWER BOUND INCLUDED		# OF SAMPLES	% OF TOTAL	CUM. %
0.000	**********	23	4.0	0.0
8.000	**********	119	20.6	4.0
16.000	**********	122	21.1	24.5
24.000	**********	72	12.4	45.6
32.000	**********	49	8.5	58.0
40.000	**********	41	7.1	66.5
48.000	**********	28	4.8	73.6
56.000	**********	18	3.1	78.4
64.000	**********	11	1.9	81.5
72.000	**********	19	3.3	83.4
80.000	**********	9	1.6	86.7
88.000	**********	11	1.9	88.3
96.000	**********	7	1.2	90.2
104.000	**********	9	1.6	91.4
112.000	**********	6	1.0	92.9
120.000	**********	3	0.5	94.0
128.000	**********	1	0.2	94.5
136.000	**********	4	0.7	94.6
144.000	**********	1	0.2	95.3
152.000	**********	6	1.0	95.5
160.000	**********	0	0.0	96.5
168.000	**********	3	0.5	96.5
176.000	**********	1	0.2	97.1
184.000	**********	2	0.3	97.2
192.000	**********			97.6

PERCENT OF THE TOTAL SAMPLES

DATA ABOVE RANGE OF HISTOGRAM

**********	2	0.3	100.0

EQUITY ENGINEERING - PROJECT BIM 88-01

VARIABLE:	Mo ppm
NUMBER OF OBSERVATIONS:	579
DETECTION LIMIT:	1 ppm
MINIMUM:	1.000
MAXIMUM:	110.000
MEAN:	3.693
STANDARD ERROR OF MEAN:	0.243
STANDARD DEVIATION:	5.857
COEFFICIENT OF VARIATION:	158.605
SKEWNESS:	11.745
KURTOSIS:	192.312

DATA TITLE : EQUITY ENGINEERING - PROJECT BIM 88-01
V. [ABLE : Mo ppm

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	# OF SAMPLES	% OF TOTAL	CUM. %
1.000	**********	178	30.7	0.0
2.000	**********	93	16.1	30.7
3.000	**********	89	15.4	46.8
4.000	**********	74	12.8	62.2
5.000	**********	68	11.7	75.0
6.000	**********	30	5.2	86.7
7.000	***	7	1.2	91.9
8.000	*****	14	2.4	93.1
9.000	I	1	0.2	95.5
10.000	II	4	0.7	95.7
11.000	I	2	0.3	96.4
12.000	***	6	1.0	96.7
13.000	I	1	0.2	97.8
14.000	I	1	0.2	97.9
15.000		0	0.0	98.1
16.000	I	2	0.3	98.1
17.000	I	1	0.2	98.4
18.000		0	0.0	98.6
19.000	I	1	0.2	98.6
20.000		0	0.0	98.8
21.000	I	1	0.2	98.8
22.000		0	0.0	99.0
23.000	I	1	0.2	99.0
24.000	I	1	0.2	99.1
25.000				99.3
DATA ABOVE RANGE OF HISTOGRAM	II	4	0.7	100.0

EQUITY ENGINEERING - PROJECT BIM 88-01

VARIABLE:	Pb ppm
NUMBER OF OBSERVATIONS:	579
DETECTION LIMIT:	1 ppm
MINIMUM:	1.000
MAXIMUM:	1180.000
MEAN:	16.079
STANDARD ERROR OF MEAN:	2.363
STANDARD DEVIATION:	56.857
COEFFICIENT OF VARIATION:	353.602
SKEWNESS:	16.644
KURTOSIS:	314.795

DATA TITLE : EQUITY ENGINEERING - PROJECT BIM 88-01
VARIABLE : Pb ppm

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	# OF SAMPLES	% OF TOTAL	CUM. %
0.000	**********	44	7.6	0.0
2.000	**********	51	8.8	7.6
4.000	**********	32	5.5	16.4
6.000	**********	28	4.8	21.9
8.000	**********	72	12.4	26.8
10.000	**********	74	12.8	39.2
12.000	**********	85	14.7	52.0
14.000	**********	68	11.7	66.7
16.000	**********	36	6.2	78.4
18.000	**********	24	4.1	84.6
20.000	**********	15	2.6	88.8
22.000	**********	6	1.0	91.4
24.000	**********	7	1.2	92.4
26.000	**********	4	0.7	93.6
28.000	**********	1	0.2	94.3
30.000	**********	4	0.7	94.5
32.000	**********	3	0.5	95.2
34.000	**********	1	0.2	95.7
36.000	**********	0	0.0	95.9
38.000	**********	2	0.3	95.9
40.000	**********	4	0.7	96.2
42.000	**********	3	0.5	96.9
44.000	**********	1	0.2	97.4
46.000	**********	1	0.2	97.6
48.000	**********			97.8
DATA ABOVE RANGE OF HISTOGRAM	**********	13	2.2	100.0

EQUITY ENGINEERING - PROJECT BIM 88-01

VARIABLE:	Zn ppm
NUMBER OF OBSERVATIONS:	579
DETECTION LIMIT:	5 ppm
MINIMUM:	10.000
MAXIMUM:	1200.000
MEAN:	115.877
STANDARD ERROR OF MEAN:	3.768
STANDARD DEVIATION:	90.672
COEFFICIENT OF VARIATION:	78.248
SKEWNESS:	4.778
KURTOSIS:	42.631

DATA TITLE : EQUITY ENGINEERING - PROJECT BIM 88-01
VARIABLE : Zn ppm

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	# OF SAMPLES	% OF TOTAL	CUM. %
5.000	****	5	0.9	0.9
20.000	***************	21	3.6	4.5
35.000	**************************************	56	9.7	14.2
50.000	**	63	10.9	25.0
65.000	**	68	11.7	36.8
80.000	***	73	12.6	49.4
95.000	***	59	10.2	59.6
110.000	********************************	44	7.6	67.2
125.000	********************************	43	7.4	74.6
140.000	**********************	29	5.0	79.6
155.000	******************	25	4.3	83.9
170.000	************	18	3.1	87.0
185.000	**********	16	2.8	89.8
200.000	*******	9	1.6	91.4
215.000	*******	10	1.7	93.1
230.000	****	5	0.9	94.0
245.000	****	5	0.9	94.8
260.000	*******	9	1.6	96.4
275.000	I	1	0.2	96.5
290.000	*****	6	1.0	97.6
305.000	I	1	0.2	97.8
320.000	II	2	0.3	98.1
335.000	***	3	0.5	98.6
350.000		0	0.0	98.6
365.000				
DATA ABOVE RANGE OF HISTOGRAM	******	8	1.4	100.0

EQUITY ENGINEERING - PROJECT BIM 88-01

VARIABLE:	Ag ppm
NUMBER OF OBSERVATIONS:	579
DETECTION LIMIT:	0.1 ppm
MINIMUM:	0.100
MAXIMUM:	7.700
MEAN:	0.354
STANDARD ERROR OF MEAN:	0.019
STANDARD DEVIATION:	0.449
COEFFICIENT OF VARIATION:	127.015
SKEWNESS:	8.750
KURTOSIS:	125.123

DATA TITLE : EQUITY ENGINEERING - PROJECT BIM 88-01
VARIABLE : Ag ppm

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	# OF SAMPLES	% OF TOTAL	CUM. %
0.100	**********	174	30.1	0.0
0.200	**********	112	19.3	30.1
0.300	**********	96	16.6	49.4
0.400	**********	65	11.2	66.0
0.500	**********	47	8.1	77.2
0.600	**********	41	7.1	85.3
0.700		0	0.0	92.4
0.800	**********	17	2.9	92.4
0.900		0	0.0	95.3
1.000	**********	8	1.4	95.3
1.100	**********	1	0.2	96.7
1.200	**********	4	0.7	96.9
1.300	**********	1	0.2	97.6
1.400		0	0.0	97.8
1.500	**********	2	0.3	97.8
1.600	**********	2	0.3	98.1
1.700	**********	3	0.5	98.4
1.800		0	0.0	99.0
1.900		0	0.0	99.0
2.000	**********	1	0.2	99.0
2.100		0	0.0	99.1
2.200	**********	1	0.2	99.1
2.300	**********	1	0.2	99.3
2.400		0	0.0	99.5
2.500				99.5
	10.0 20.0 30.0 40.0 50.0 PERCENT OF THE TOTAL SAMPLES			
DATA ABOVE RANGE OF HISTOGRAM	**********	3	0.5	100.0

EQUITY ENGINEERING - PROJECT BIM 88-01

VARIABLE:	As ppm
NUMBER OF OBSERVATIONS:	579
DETECTION LIMIT:	1 ppm
MINIMUM:	2.000
MAXIMUM:	850.000
MEAN:	13.582
STANDARD ERROR OF MEAN:	1.957
STANDARD DEVIATION:	47.083
COEFFICIENT OF VARIATION:	346.653
SKEWNESS:	12.961
KURTOSIS:	199.940

DATA TITLE : EQUITY ENGINEERING - PROJECT BIM 88-01
VARIABLE : As ppm

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	# OF SAMPLES	% OF TOTAL	CUM. %
2.000	**********	105	18.1	0.0
4.000	**********	119	20.6	18.1
6.000	**********	111	19.2	38.7
8.000	**********	56	9.7	57.9
10.000	**********	72	12.4	67.5
12.000	**********	21	3.6	80.0
14.000	**********	36	6.2	83.6
16.000	**********	12	2.1	89.8
18.000	***	3	0.5	91.9
20.000	I	1	0.2	92.4
22.000	*******	9	1.6	92.6
24.000	***	3	0.5	94.1
26.000	I	1	0.2	94.6
28.000	***	4	0.7	94.8
30.000	I	1	0.2	95.5
32.000	***	3	0.5	95.7
34.000	I	1	0.2	96.2
36.000		0	0.0	96.4
38.000	***	4	0.7	96.4
40.000		0	0.0	97.1
42.000		0	0.0	97.1
44.000	I	1	0.2	97.1
46.000		0	0.0	97.2
48.000		0	0.0	97.2
50.000				97.2
	5.0 10.0 15.0 20.0 25.0			
	PERCENT OF THE TOTAL SAMPLES			
DATA ABOVE RANGE OF HISTOGRAM	**********	16	2.8	100.0

EQUITY ENGINEERING - PROJECT BIM 88-01

VARIABLE:	Sb ppm
NUMBER OF OBSERVATIONS:	576
DETECTION LIMIT:	0.1 ppm
MINIMUM:	0.100
MAXIMUM:	4.800
MEAN:	0.243
STANDARD ERROR OF MEAN:	0.014
STANDARD DEVIATION:	0.345
COEFFICIENT OF VARIATION:	142.139
SKEWNESS:	6.962
KURTOSIS:	70.027

DATA TITLE : EQUITY ENGINEERING - PROJECT BIM 88-01
V. IABLE : Sb ppm

LOWER BOUND INCLUDED	PERCENT OF THE TOTAL SAMPLES	# OF SAMPLES	% OF TOTAL	CUM. %
0.100	**********	309	53.6	0.0
0.200	**********	138	24.0	53.6
0.300	******	23	4.0	77.6
0.400	**********	49	8.5	81.6
0.500	II	6	1.0	90.1
0.600	******	24	4.2	91.1
0.700		0	0.0	95.3
0.800	***	11	1.9	95.3
0.900		0	0.0	97.2
1.000	II	6	1.0	97.2
1.100		0	0.0	98.3
1.200	I	3	0.5	98.3
1.300	I	1	0.2	98.8
1.400		0	0.0	99.0
1.500		0	0.0	99.0
1.600		0	0.0	99.0
1.700	I	1	0.2	99.0
1.800		0	0.0	99.1
1.900		0	0.0	99.1
2.000	I	1	0.2	99.1
2.100		0	0.0	99.3
2.200		0	0.0	99.3
2.300		0	0.0	99.3
2.400	I	2	0.3	99.3
2.500				99.7

PERCENT OF THE TOTAL SAMPLES

DATA ABOVE RANGE OF HISTOGRAM

I	2	0.3	100.0

APPENDIX F

STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, DAVID A. CAULFIELD, of 3142 Gambier Street, Coquitlam, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geologist with offices at Suite 406, 675 West Hastings Street, Vancouver, British Columbia.

2. THAT I am a graduate of the University of British Columbia with a Bachelor of Science degree in Geology.

3. THAT my primary employment since 1978 has been in the field of mineral exploration.

4. THAT my experience has encompassed a wide range of geological environments and has allowed considerable familiarization with geophysical, geochemical, and diamond drilling techniques.

5. THAT this report is based on fieldwork carried out under my direction.

DATED at Vancouver, British Columbia, this 28 day of February, 1989.

David A. Caulfield, Geologist

STATEMENT OF QUALIFICATIONS

I, BRUNO KASPER, of 1350 East 34th Avenue, Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geologist with offices at Suite 406, 675 West Hastings Street, Vancouver, British Columbia.

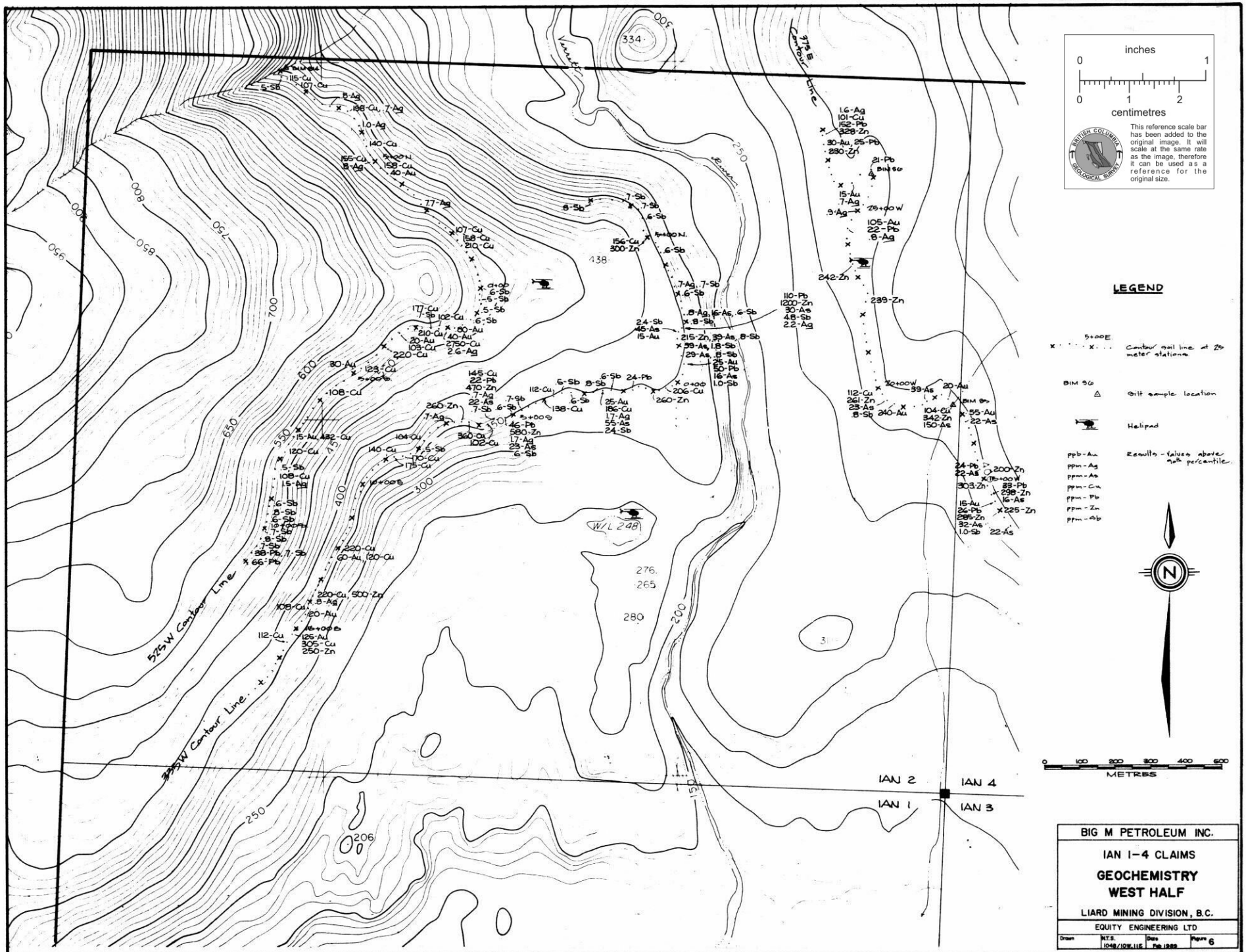
2. THAT I am a graduate of the University of Alberta with a Bachelor of Science degree in Geology.

3. THAT my primary employment since June, 1988 has been in the field of mineral exploration.

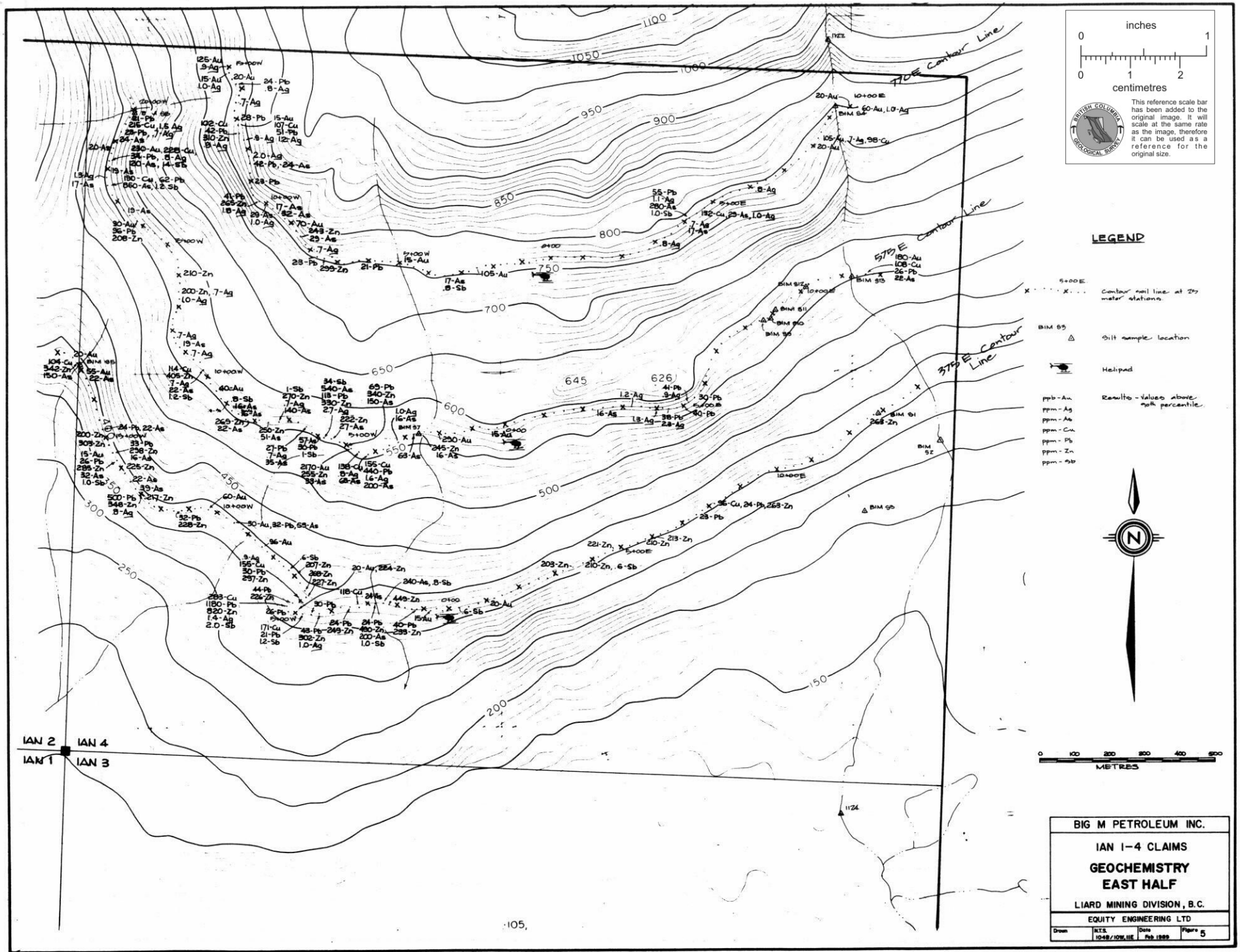
4. THAT this report is based on fieldwork carried out on the Ian 1-4 claims during August 1988.

DATED at Vancouver, British Columbia, this 28 day of February, 1989.

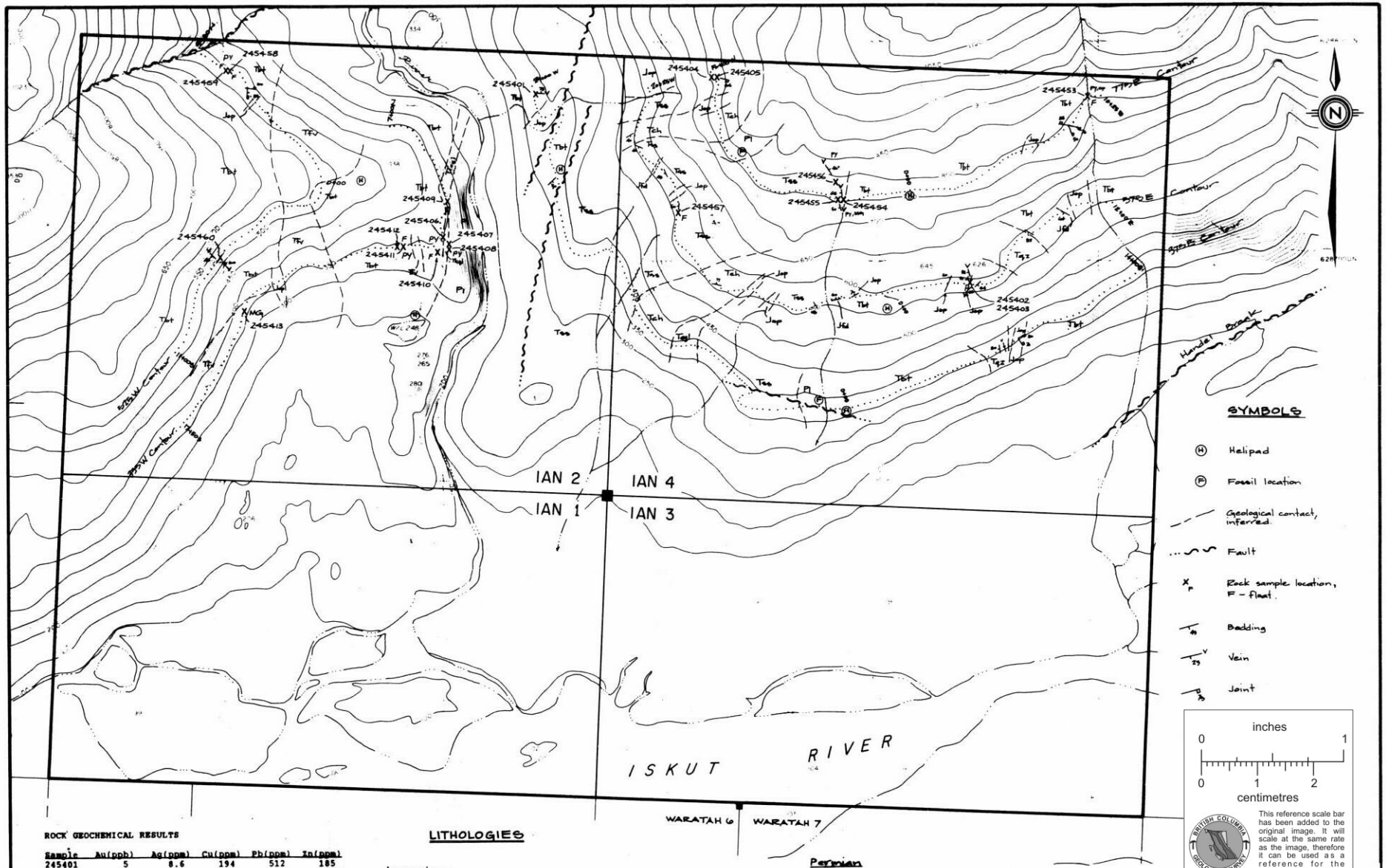
Bruno Kasper, Geologist



Extracted from 'Geological and Geochemical Report on the IAN 1-4 Claims' by Equity Engineering Ltd., Feb. 1989



Extracted from 'Geological and Geochemical Report on the IAN 1-4 Claims' by Equity Engineering Ltd., Feb. 1989



ROCK GEOCHEMICAL RESULTS

Sample	Au(ppb)	Ag(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)
245401	5	8.6	194	512	185
245402	<5	0.4	9	6	25
245403	15	0.4	4	<2	9
245404	<5	0.2	97	<2	90
245405	<5	0.2	171	6	67
245406	<5	<0.2	33	66	84
245407	<5	<0.2	33	<2	76
245408	<5	<0.2	36	8	74
245409	<5	<0.2	18	4	112
245410	<5	<0.2	51	8	82
245411	<5	<0.2	10	12	53
245412	<5	<0.2	74	10	89
245413	<5	<0.2	<1	<2	100
245453	2800	4.0	1950	14	70
245454	35	0.4	73	26	98
245455	<5	0.4	51	8	30
245456	90	2.4	38	40	83
245457	<5	0.2	8	<2	239
245458	15	<0.2	38	<2	68
245459	5	<0.2	29	2	52
245460	<5	0.2	17	<2	5

LITHOLOGIES

Jurassic

- Jop — Orthoclase porphyry
- Jfd — Felsic dyke

Triassic

- Tqz — Quartzite
- Tss — Interbedded siltstone, mudstone, greywacke
- Tcgl — Conglomerate
- Tch — Chert
- TFv — Feldspar porphyry flow
- Tbt — Agglomerate
- Tlsgl — Limestone conglomerate

Permian

- Pl — Crinoidal limestone

BIG M PETROLEUM INC.

IAN 1-4 CLAIMS

COMPILATION MAP

LIARD MINING DIVISION, B.C.

EQUITY ENGINEERING LTD.

Drawn | N.T.S. 104B/10W, 11E | Date Feb. 1989 | Figure 4

Extracted from 'Geological and Geochemical Report on the IAN 1-4 Claims' by Equity Engineering Ltd., Feb. 1989

CERTIFICATE OF THE ISSUER

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

Dated: September 7, 1989

KEVIN CHARLES WHELAN
Chief Executive Officer
Chief Financial Officer

On behalf of the Directors

PETER DELANO WHELAN
Director

JASON BRENT GILBERT
Director

By a Promoter

KEVIN CHARLES WHELAN
Promoter

CERTIFICATE OF THE 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 Statement of Material Facts as required by the Securities Act and its regulations.

Dated: September 7, 1989

CANARIM INVESTMENT CORPORATION LTD.

Per: _____
Peter Brown