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ALBETA MINES LTD. (N.P.L.)

PROPERTY REPORTS

DRILL LOGS & ASSAYS

PROPERTY FILE

REPORT ON BIRMINGHAM RIVER PROJECT

for

AMERICAN RIVER LTD. (I.R.L.)

George E. Apps, P.Eng.

October 21, 1961.

REPORT ON ROBERTSON RIVER PROPERTY

ALPHA MINES LTD. (N.P.L.)

SUMMARY

Alpha Mines Ltd. (N.P.L.) has acquired the Alpha, Beta and Tuboga Crown Grants and 22 adjacent mineral claims in the Robertson River valley, Coulehan Lake District, and has established that on this ground:

- (a) There is an outcropping orebody from which at least 1000 tons can be mined on surface and shipped at a profit.
- (b) There is a copper bearing mineralized zone within 400 to 800 ft. of the exposed orebody, which has a potential of several hundred thousand tons of readily accessible ore and which must be tested by trenching and diamond drilling. This zone was located by a magnetometer survey.
- (c) There are several smaller magnetic anomalies indicating mineralized zones which have not been explored.
- (d) There is ground that is geologically favorable for the duplication of ore similar to that in the 'main showing' along a granodiorite contact.

A program designed to test the known mineralized zones and prospect the additional favorable ground by geophysical and physical means will require the expenditure of \$25,000.

Favorable results from this exploration program could reasonably be expected to culminate in a producing mine on the property in 1962.

INTRODUCTION

The writer first examined the Alpha showings on May 5, 1961, and since that time has examined adjacent claims and properties, staked additional adjoining claims, carried out a geological reconnaissance of the area, carried out detailed magnetometer surveys locally, dug test pits, and laid out and supervised construction of an access road.

Albata Mines Ltd. (N.P.L.) was incorporated in British Columbia as a private Company on August 1, 1961 to develop the Alpha, Beta, and adjoining group of claims.

PROPERTIES

The company has acquired 25 claims in the Robertson River valley, about 10 miles by road from the village of Lake Cowichan. The key claims, the Alpha and Beta Crown Grants, were staked in 1904 and held by one family until released to Albata Mines Ltd.. Practically no effective exploration work other than stripping the 'main showings' was done on the claims until they were acquired by the principals of Albata Mines Ltd..

The main ore showing on the Alpha is a skarn zone containing chalcocite and magnetite. In a surface area about 20 by 30 ft. in the zone outcropping beside the river copper content is about 4 per cent and lower grade ore extends to the northeast. Smaller bodies of high grade ore occur nearby on Long Creek.

Other claims acquired cover occurrences of copper along the same structure that contains the known ore and include the Tiboga Crown Grant, ^{the 6 claim Skarn group,} and the 16 other claims held by location.

WORK TO DATE

A large percentage of the geologically favorable area is covered by overburden, and ground prospecting has not been effective in picking up new

ore bodies. The association of magnetite (magnetic iron ore) with the copper mineralization makes it possible to detect mineralized zones by locating the disturbance they cause in the earth's magnetic field over the mineralized zone. Magnetometer surveys were conducted in the area of the main showings, an area about 3000 ft. away on the Skarn claims where copper float-ore had been found, and on a strip of ground between these areas.

A large magnetic anomaly was found within 600 ft. of the known ore in the main showing, indicating a mineralized zone from 30 to 75 feet wide and nearly 400 feet long. A test pit dug through the overburden (hardpan) covering the area encountered oxidized copper ore at a depth of 16 feet.

The anomaly found over the main showing indicated no lateral extension of the visible ore but showed that the zone persists underground on a southerly dip.

A magnetic anomaly indicating a mineralized zone about 40 by 100 ft. was found about 50 ft. up hill from the float-ore found on the Skarn group and a series of small anomalies paralleling a limestone-vein contact were found about 1000 feet west of this.

A 3/4 mile access road has been built from the Forestry road to the large anomaly on the Alpha claim and a bulldozer trench has been started in the hardpan over the mineralized zone.

ECONOMICS

Further exploration and development on the property will indicate the tonnage and grade of ore in the mineralized zones and the relative economics of μ milling on the property or shipping ore to a custom mill

will be determined on the basis of such information.

Preliminary investigations however, show that Britannia Mines will custom mill (or purchase) ore from outside properties and that the total cost of transportation, handling and milling would be in the order of \$5.00 to \$6.00 per ton, depending on volume. Production costs at the mine would be in the order of \$2.50 to \$3.00 per ton. Thus, ore averaging 2 1/2% recoverable copper would gross \$11.50 per ton at present prices, giving an operating profit of \$2.50 to \$4.00 per ton; ore averaging 3% recoverable copper would yield an operating profit of \$4.80 to \$6.30 per ton, and 4% ore would yield \$9.40 to \$10.90 profit per ton.

No realistic ore calculations or estimates on the zone under the large anomaly can be made before the zone has been trenched and diamond drilled. However, the plan area of the mineralized zone indicated by the anomaly gives a possible tonnage of over 200,000 tons above the level of a crosscut tunnel which could be driven from near river level.

The 'main showing' beside the river contains about 1000 tons which could be mined from the surface and about 100 tons per vertical foot of depth.

No estimates of ore potential on the other mineralized zones can be made without doing additional exploration work on them.

GEOLOGY

The 'main showing' is a chalcopyrite-magnetite replacement in a metamorphosed rock (skarn) formed on a granodiorite-volcanic contact. The mineralization may be related to a structure carrying a felspar porphyry dike which lies on the footwall side of the ore body.

Other ore bodies may occur along or near the contact where skarn,

formed by the metamorphism of suitable rock types in the contact zone, is cut by or is adjacent to a fault or fracture zone which has carried ore-bearing solutions.

Geological reconnaissance indicates that the mineralized zone under the large anomaly lies in the granodiorite contact-zone and that the anomalies and mineral showings to the east are also within the influence of the contact. Claims held by Alberta Mines Ltd. cover about two miles of this contact zone, most of which is blanketed by overburden. Copper mineralization has been found to occur intermittently over about a mile of this general zone, and as magnetite is associated with the copper in all instances, it is almost a certainty that any more ore-bodies on the zone will be located by detailed magnetometer surveys.

RECOMMENDED WORK PROGRAM and COST ESTIMATE

The following programs of work are justified by the results of exploration on the property to date.

Program I is the minimum work required to indicate the potential of the mineralized zone under the large anomaly and to fill out the geophysical work done in that area, and is as follows:

<u>PROGRAM I</u>	<u>Estimated Cost</u>
(a) Road Construction and Improvement	\$1,000.00
(b) Magnetometer Surveys	500.00
(c) Bulldozer Trenching on Anomalies	1,800.00
(d) Hand Trenching	200.00
(e) Engineering	500.00
(f) Office & Administration Expense	500.00
TOTAL -	\$4,500.00

Program 2 will establish tenenge and grade on the mineralized zone under the large anomaly by more trenching and by diamond drilling, will explore the other anomalies by trenching and some drilling, will broaden the coverage of geophysical work and prospecting on other known favorable areas on the property, and will initiate underground development.

<u>PROGRAM " 2</u>	<u>Estimated Cost</u>
(a) Tractor Road Construction to Anomalies	\$ 900.00
(b) Bulldozer Trenching & Stripping	3,000.00
(c) Hand Trenching	500.00
(d) Magnetometer Surveys	1,000.00
(e) Diamond Drilling	8,000.00
(f) Engineering	500.00
(g) Building Construction	500.00
(h) Preparation for & Start of Underground Development	5,000.00
(i) Office & Administrative Expense	1,500.00
TOTAL	<u>\$20,500.00</u>
TOTAL COST OF PROGRAMS I & 2 - - - - -	<u>\$25,000.00</u>

On the successful completion of this program the Company should proceed with an underground drive to the ore under the large anomaly, with the development of the orebody for mining, and with the orderly exploration and development of the other mineralized zones.

George E. Apps, P.Eng.
October 24, 1961.

REPORT OF

ALBETA MINES LTD (N.P.L.)

ROBERTSON RIVER AREA

Harder & Apps-

August 25, 1961

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ALBERTA MINES LTD. (N.P.L.)

Robertson River Area

August 25, 1961.

SUMMARY

Alberta Mines Ltd. (N.P.L.) has been formed to develop mining property located on Robertson River, Cowichan Lake District, on which:

- There is an outcropping orebody (4% Cu) from which at least 1000 tons can be mined on surface and shipped at a profit.
- There is a copper bearing mineralized zone within 400 to 800 ft. of the exposed orebody, which has a potential of several hundred thousand tons of readily accessible ore, which must be tested by ^{fracture zone} diamond drilling. This zone was located by geophysical methods.
- There are several smaller, indicated mineralized zones, which have not been explored.
- There is ground which is geologically favorable for the duplication of ore similar to that in the 'main showing'. *along a can granodiorite contact which*

A program designed to test the known mineralized zones and prospect the additional favorable ground by geophysical and physical means will require ^{the expenditure} a minimum of \$20,000.

Favorable results from the exploration program would ^{reasonably be expected to} culminate in a producing mine on the property in 1962. *could*

GENERAL

- ALBERTA MINES LTD (N.P.L.) (a private company)
- Incorporated Aug. 1, 1961.
- Capitalization : 3,000,000 shares of \$1.00 par value
- Address : Lake Cowichan, B.C.

PROPERTIES

The company has acquired ²⁵ claims in the Robertson River Valley, about 10 miles by road from the village of Lake Cowichan. The key claims, the Alpha and Beta Crown Grants, were staked in 1904 and held by one family until released to Alberta Mines Ltd. Practically no effective exploration work other than stripping the 'main showing' was done on the claims until they were acquired by the principals of Alberta Mines Ltd.

The main ore showing on the Alpha is a skarn zone containing chalcopyrite and magnetite. In a surface area about 20 by 30 ft. in the zone outcropping beside the river, copper content is 4 ~~to 5~~ ^{to 6} per cent. Lower grade ore extends to the northeast. Smaller bodies of high grade ore occur nearby on Long Creek.

Other claims acquired cover occurrences of copper along the same structure that contains the known ore , and include the Taboga Crown grant, the 6 claim Skarn group, and ~~several~~ ¹⁶ other claims held by location.

WORK TO DATE

A large percentage of the geologically favorable area is covered by overburden, and ground prospecting has not been effective in picking up ^{new} ore bodies. The association

of magnetite (magnetic iron ore) with the copper mineralization makes it possible to detect mineralized zones by ~~the~~ locating the disturbances they cause in the earth's magnetic field over the mineralized zone. *A magnetometer survey was conducted*
~~A magnetometer was used to survey parts of the property and readings were taken in the area of the main showing, an area about 3000 ft away, where copper float-ore had been found on the Skarn group, and on a strip of ground between these areas.~~

A large magnetic anomaly was found within 400 to 800 feet of the known ore in the 'main showing', indicating a mineralized zone from 30 to 75 ft wide for a length of nearly 400 ft. A test pit sunk through overburden (hardpan) covering the area encountered oxidized copper ore at a depth of 16 feet.

An anomaly found over the 'main showing' indicated no lateral extensions of the visible ore but showed that the zone persists underground on a southerly dip.

A magnetic anomaly indicating a mineralized zone about 40 by 100 ft. was found about 50 ft. up hill from the float-ore found on the Skarn group and a series of small anomalies paralleling a limestone-volcanic contact were found about 1000 ft. west of this.

ECONOMICS

Further exploration and development on the property will indicate the tonnage and grade of ore in the mineralized zones and the relative economics of milling on the property or shipping ore will be determined on the basis of such information.

Preliminary investigations, however, show that Britannia Mines will custom mill (or purchase) ore from outside properties and that the total cost of transportation, handling, and milling would be in the order of \$5.00 to \$6.00 per ton, depending on volume. Production costs at the mine would be in the order of \$2.50 to \$3.00. Thus, ore averaging 2 1/2% recoverable copper would gross \$11.50 per ton at present prices, giving an operating profit of \$2.50 to \$4.00 per ton, 3% copper would give \$4.80 to \$6.30 per ton, and ore similar to that in the 'main showing', averaging 4% recoverable copper would yield an operating profit of \$9.40 to \$10.90 per ton.

No realistic ^{in the ground the length} ~~ore~~ calculations or estimates ^{can be made} before the zone has been ^{traced and} diamond drilled. However, the plan area of the mineralized zone indicated by the anomaly gives a possible tonnage of over 200,000 tons above the level of a crosscut tunnel which would be driven from near creek level.

The 'main showing' beside the river contains about 1,000 tons which could be mined from the surface, and about 75 to 100 tons per vertical foot of depth.

No estimates of ore potential on the other mineralized zones can be made without doing additional exploration.

GEOLOGY

The 'main showing' is a chalcopyrite-magnetite replacement in a metamorphosed rock (skarn) formed on a granodiorite-volcanic contact. The mineralization may be related to a structure carrying a feldspar porphyry dike, ^{which lies} lying on the footwall side of the ore body.

Geological and ~~magnetic~~ ^{resonance} observations indicate that the

mineralized zone under the large anomaly ~~lies~~ ^{is} ~~along~~ the granodiorite contact and that the anomalies and mineral showings to the east are ~~at great distance from~~ ^{within the zone of} the contact. Claims held by Albata Mines Ltd; cover about two miles of this contact zone, most of which is blanketed by overburden. Copper mineralization has been found to occur intermittently over about a mile of this general zone, and as magnetite is associated with the copper in all instances, it is almost a certainty that any more ore bodies on the zone will be located by magnetometer surveys.

PROPOSED WORK & COSTS

A program is planned that will give access to the showings; will test the large (No. 1) anomaly, the main showing and other zones by diamond drilling; will further the geophysical and geological coverage and provide for initial testing of new zones located; and will prepare a site for an underground drive.

Details of the proposed work and costs are:

- Access road - 1/4 mi. to main showing & No. 1 anomaly & 1/4 mi. to other zones - - - - - \$2000. provided by initial financing.
- Diamond drilling- No 1 anomaly - - 2000 ft.
 - Main showing area 500 ft.
 - Tabaga & Ekara anomalies - 1000'
- Total - 3500 ft @ \$3.50 - - \$12,250.
- Additional magnetometer surveys and geological mapping - - - - - \$ 3,000.

-- Trenching and stripping - - - - - \$ 1500.
-- Bridge over river at portal site - - - - - \$ 1500.
-- Slashing at portal site - - - - - \$ 1500.
Contingencies - - - - - \$ 250.

TOTAL req'd \$20,000.

Development of the ore bodies for mining would immediately follow the success of this program.

George E Apps, P.Eng.
August 25, 1961.

EXTRACT FROM 'MINISTER OF MINES REPORTS' 1929

"The ore, a mixture of chalcopyrite, pyrite, and, in places, magnetite, lies in an apparently extensive contact-metamorphic zone between a wide limestone-belt and intrusive granodiorite. The gangue is mainly garnetite and epidote. The mineralisation occurs in masses, small veins, and disseminated through the gnague."

"Much open-cutting, trenching, and stripping has been done, exposing so far two ore-bodies. The work has not conclusively shown just what the strike and dip of the mineralized zone is. Several dykes intrude the zone and these, striking about N. 75 E. (mag.), seemed to indicate the general strike of the contact. However, a crosscut tunnel, about 100 feet long and about 300 feet North of the ore exposure on Robertson creek, was not in the contact-zone and therefore it must strike nearly east-west (mag.) and dip flatly to the south.

Trenching along the zone on the north bank of Robertson creek and across the mouth of Long creek, emptying in at this point from the north, shows a width of about 75 feet, of which 40 feet is estimated to average 4% copper." Four hundred feet east of this showing, and at an elevation of about 125 feet above the main creek, the sidhill has been stripped between a small dyke on the west side and a wider dyke on the east, a distance of over 100 feet, showing mineralization throughout. While at the property a row of holes were shot, exposing about 50 feet across this stripping, which could not be sampled, but I judge will average over 3 per cent. copper. Two or three short tunnels into the hill here will show the width of the ore-body.

Ore has been exposed in places on the south side of Robertson creek, but the zone here apparently dips under an overlying igneous rock. Prospecting up the hill in the contact zone has disclosed ore indications and altogether it is a decidedly interesting property with more than ordinary possibilities."

#-- Minister of Mines Report 1927 -- "An independant sampling across 40 feet of this belt gave 4.54 per cent. copper"

REPORT OF INVESTIGATION

for

ALPHA BETA (L.P.L.)

George E. Apps, P.Eng.

October 24, 1961.

REPORT ON ROBERTSON RIVER PROPERTY

ALBERTA MINES LTD. (N.P.L.)

SUMMARY

Alberta Mines Ltd. (N.P.L.) has acquired the Alpha, Beta and Taboga Crown Grants and 22 adjacent mineral claims in the Robertson River valley, Cowichan Lake District, and has established that on this ground :

- (a) There is an outcropping orebody from which at least 1000 tons can be mined on surface and shipped at a profit.
- (b) There is a copper bearing mineralized zone within 400 to 800 ft. of the exposed orebody, which has a potential of several hundred thousand tons of readily accessible ore and which must be tested by trenching and diamond drilling. This zone was located by a magnetometer survey.
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A program designed to test the known mineralized zones and prospect the additional favorable ground by geophysical and physical means will require the expenditure of \$25,000.

Favorable results from this exploration program could reasonably be expected to culminate in a producing mine on the property in 1962.

INTRODUCTION

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ore bodies. The association of magnetite (magnetic iron ore) with the copper mineralization makes it possible to detect mineralized zones by locating the disturbance they cause in the earth's magnetic field over the mineralized zone. Magnetometer surveys were conducted in the area of the main showings, an area about 3000 ft. away on the Skarn claims where copper float-ore had been found, and on a strip of ground between these areas.

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A 3/4 mile access road has been built from the Forestry road to the large anomaly on the Alpha claim and a bulldozer trench has been started in the hardpan over the mineralized zone.

ECONOMICS

Further exploration and development on the property will indicate the tonnage and grade of ore in the mineralized zones and the relative economics of ~~the~~ milling on the property or shipping ore to a custom mill

will be determined on the basis of such information.

Preliminary investigations however, show that Britannia Mines will custom mill (or purchase) ore from outside properties and that the total cost of transportation, handling and milling would be in the order of \$5.00 to \$6.00 per ton, depending on volume. Production costs at the mine would be in the order of \$2.50 to \$3.00 per ton. Thus, ore averaging 2½% recoverable copper would gross \$11.50 per ton at present prices, giving an operating profit of \$2.50 to \$4.00 per ton; ore averaging 3% recoverable copper would yield an operating profit of \$4.80 to \$6.30 per ton, and 4% ore would yield \$9.40 to \$10.90 profit per ton.

No realistic ore calculations or estimates on the zone under the large anomaly can be made before the zone has been trenched and diamond drilled. However, the plan area of the mineralized zone indicated by the anomaly gives a possible tonnage of over 200,000 tons above the level of a crosscut tunnel which could be driven from near river level.

The 'main showing' beside the river contains about 1000 tons which could be mined from the surface and about 100 tons per vertical foot of depth.

No estimates of ore potential on the other mineralized zones can be made without doing additional exploration work on them.

GEOLOGY

The 'main showing' is a chalcopyrite-magnetite replacement in a metamorphosed rock (skarn) formed on a granodiorite-volcanic contact. The mineralization may be related to a structure carrying a felspar porphyry dike which lies on the footwall side of the ore body.

Other ore bodies may occur along or near the contact where skarn,

formed by the metamorphism of suitable rock types in the contact zone, is cut by or is adjacent to a fault or fracture zone which has carried ore-bearing solutions.

Geological reconnaissance indicates that the mineralized zone under the large anomaly lies in the granodiorite contact-zone and that the anomalies and mineral showings to the east are also within the influence of the contact. Claims held by Alberta Mines Ltd. cover about two miles of this contact zone, most of which is blanketed by overburden. Copper mineralization has been found to occur intermittently over about a mile of this general zone, and as magnetite is associated with the copper in all instances, it is almost a certainty that any more ore-bodies on the zone will be located by detailed magnetometer surveys.

RECOMMENDED WORK PROGRAM and COST ESTIMATE

The following programs of work are justified by the results of exploration on the property to date.

Program I is the minimum work required to indicate the potential of the mineralized zone under the large anomaly and to fill out the geophysical work done in that area, and is as follows:

<u>PROGRAM I</u>	<u>Estimated Cost</u>
(a) Road Construction and Improvement	\$1,000.00
(b) Magnetometer Surveys	500.00
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(d) Hand Trenching	200.00
(e) Engineering	500.00
(f) Office & Administration Expense	500.00
TOTAL	\$4,500.00

Program 2 will establish tonnage and grade on the mineralized zone under the large anomaly by more trenching and by diamond drilling, will explore the other anomalies by trenching and cone drilling, will broaden the coverage of geophysical work and prospecting on other known favorable areas on the property, and will initiate underground development.

<u>PROGRAM - 2</u>	<u>Estimated Cost</u>
(a) Tractor Road Construction to Anomalies	\$ 500.00
(b) Bulldozer Trenching & Stripping	3,000.00
(c) Hand Trenching	500.00
(d) Magnetometer Surveys	1,000.00
(e) Diamond Drilling	8,000.00
(f) Engineering	500.00
(g) Building Construction	500.00
(h) Preparation for & Start of Underground Development	2,000.00
(i) Office & Administrative Expense	1,500.00
TOTAL	<u>\$20,500.00</u>
TOTAL COST OF PROGRAMS I & 2 - - - - -	<u>\$25,000.00</u>

On the successful completion of this program the Company should proceed with an underground drive to the ore under the large anomaly, with the development of the orebody for mining, and with the orderly exploration and development of the other mineralized zones.

George E. Apps, P.Eng.
October 24, 1961.

DAVID A. SLOAN
PROFESSIONAL MINING ENGINEER

26-425 HOWE STREET
VANCOUVER 1 B.C.

July 27, 1962.

TO WHOM IT MAY CONCERN:

- (1) I am a Professional Mining Engineer, having graduated from Queen's University in 1941.
- (2) I have been a Registered Professional Engineer in the Province of B. C. since 1951.
- (3) The attached report is based on a short visit to the mining property of Albata Mines Ltd., on the detailed study of Company plans and sections and on information gained from Silver Standard Mines Ltd.
- (4) I am satisfied that all information supplied me by the Company is correct.
- (5) I have no interest in Albata Mines Ltd. and will not receive any in payment of the report.

REPORT
ON THE PROPERTY OF
ALBETA MINES LTD.

EXAMINATION:

My examination of the property of Albeta Mines Ltd. consisted of four hours spent on the property on July 25th and on a detailed study of the plans and sections prepared by Mr. G. E. Apps, P. Eng.

On the basis of my inspection and on my personal knowledge of Mr. Apps I am prepared to accept the plans, sections and drilling results as being correctly represented.

PURPOSE OF EXAMINATION:

The purpose of my examination is to prepare a report indicating whether or not the further expenditure of up to \$25,000 is warranted in an attempt to indicate enough ore to justify the expense of building a small mill.

CONCLUSIONS:

Considering the excellent location of the property, the character of the ground to be mined, grade and widths, etc., a small operation may be possible providing pre-production and capital costs are kept to a minimum and a closely controlled, low overhead operation is conducted. Considering the previous operating experience of Messrs. Apps and Harder in the area the latter point should present no problem.

In view of the above, I think that part¹ of the proposed programme, namely, drifting on Alpha No. 3 Zone for 250

feet and 300 feet of underground diamond drilling and costing \$10,000, is justified. Part 2, costing \$15,000 would be justified if Part 1 were successful in proving that the Alpha No. 3 ore zone (and by inference the other parallel zones) were mineable ore bodies.

The presently outlined area could contain enough ore (35,000 tons of 2.1% Cu) to amortize a small mill. The future profitable operation of the property would depend on finding ore outside the presently explored area.

PROPERTY AND LOCATION:

The property consists of a large group of claims staked around three old crown grants; the Alpha, Beta and Tobago. A random check of 12 of these claims and the crown grants showed that they are currently in good standing in the name of Alberta Mines Ltd.

The property is located at a low elevation and via a good road on the Robertson River, five miles from Massachie Lake and about 9 miles from the town of Lake Cowichan, Vancouver Island.

HISTORY:

The company was incorporated as a private company in August 1961 after a geological and geophysical investigation showed that the area of the property had possibilities. Silver Standard Mines Ltd. participated in the development programme in which about \$45,000 (aside from capital costs) were spent and which resulted in:

- 1/2 mile of access road;
- 1 1/2 miles of drilling access road;
- 3,500 cubic yards of trenching;
- 4,537 feet of surface diamond drilling;
- 372 feet of underground diamond drilling;
- 260 feet of crosscutting;
- 67 feet raising;
- Miscellaneous small buildings, etc.

On completion of this programme Silver Standard Mines decided not to exercise its option to acquire further shares in the company but indicated that if the company were able to finance further successful exploration then Silver

Standard would be willing to take a further share interest as rental on mining and milling equipment presently owned by Silver Standard.

Albata Mines Ltd. is now a public company.

GEOLOGY:

The geology is favorable for the occurrence of the type of contact metamorphic deposits common in the district. Skarn zones containing varying amounts of chalcopyrite and magnetite occur in a volcanic series near the contact of a south-easterly trending stock of granodiorite. Late dykes or sills of feldspar porphyry cut and displace the skarn zones.

SHOWINGS AND WORKINGS:

The old showing on the Robertson River is a typical, irregular skarn mass of about 1,500 to 2,000 tons of 3% copper which could be mined by an open pit. Four hundred feet south-east of this zone an area 300 feet long and 200 feet wide has been trenched and diamond drilled in eight parallel sections from 50 to 80 feet apart. This work has indicated several other zones well covered with overburden. This area contained two small magnetic anomalies.

A 260 foot escarpment was driven to intersect one of these zones and a raise located the zone about 30 feet above the level.

ZONES:

The diamond drilling has indicated one near surface, high grade zone of pockets of copper mineralization in a skarn mass. The average grade is 8.6% Cu. This is called the Beta No. 1 Zone and one of the pockets may extend for 60 feet or more to the south-east depending on the plunge.

The other zones so far indicated; Alpha No. 1, No. 2, No. 3 and Beta No. 2 appear to be more extensive and tabular with a general north-west trend and steep dip. These zones

may be one or two parallel zones displaced and affected by the late porphyry dykes or sills.

It is foolhardy to attempt to calculate tonnages because continuation of values has not been proved and the amount of intruding dyke material is not definitely known. However the Alpha No. 1 and No. 2 bodies would be less than 10,000 tons. The Alpha No. 3 and its possible continuation, the Beta No. 2 are open at both ends and presently contain the major tonnage potential which I would think is limited to 50,000 tons in the present area. Further ore may be picked up south-east of the Beta No. 1 Zone as mentioned earlier.

The possibilities of parallel occurrences to the north-west are good. The potential of the south-east is limited by the quartzdiorite stock but the north-west is open.

ECONOMIC CONSIDERATIONS:

The average grade of the diamond drill intersections excluding the Beta No. 1 Zone is 2% Cu. Considering the uneven nature of the mineralization it is difficult to know how true this figure is - certainly the surface showing is higher grade. Selective mining could undoubtedly raise the grade. The width of the tabular zones is between 3 to 6 feet.

Approximate Cost Estimates:

Assume a mine head of say 2.1% Cu.

Mill Recovery 95%

Mill Recovered 40 lbs. of Cu per ton

Gross Value at 30¢ Cu = \$12.00/ton

Smelter Net =

\$9.00/ton

Mining open stopes, short haul, etc.

Say 10 tons per man shift

Labour \$2.00/ton

Supplies .75/ton

\$2.75/ton

Milling 50 tons per day (2 shifts) coarse grind

Labour & Supplies \$1.50/ton

Power .50

\$2.00/ton

		\$9.00/ton
<u>Transportation</u>	\$8/ton of Concentrate by rail to Tacoma 5 miles by truck to rail	\$.70/ton
<u>Overhead & Contingencies, etc.</u>	say 20%	\$ 1.08/ton
	<u>Total</u>	<u>\$6.53/ton</u>
<u>Operating Profit</u>		\$2.47/ton
	Say	<u>\$2.45/ton</u>

Capital Costs

Mill and power (used equipment)	\$ 60,000
Current programme & Stop preparation	<u>21,000</u>
(Note: Some mining equipment now owned)	<u>\$ 81,000</u>

TONNAGE OBJECTIVE:

Minimum tonnage objective to amortize the above capital costs should be 35,000 tons indicated with a grade of 2.1% Cu or better.

PROPOSED PROGRAMME:

Part 1 of the proposed programme which will cost \$10,000 and will consist of 250 feet of drifting on the Alpha No. 3 Zone and 300 feet of diamond drilling could indicate about 25,000 tons which together with the possible tonnage of the other zones would add up to the required 35,000 tons. However it should be emphasized that the results would have to be consistently favorable to justify continuing the programme beyond this point.

Part 2 of the programme consists of further drifting on the Alpha No. 3 and Beta No. 2 Zones, diamond drilling and possibly some raising to outline the ore more definitely and increase tonnage.

Respectfully submitted,

David A. Eison

Vancouver, B. C.,
July 27th, 1962.

ALBETA MINES LTD

D.D.H. LOSS

D.D.H. SECTIONS

CORE & SLUDGE ASSAYS

1962



PHONE: () ITY 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO. **A.3-A.4-63 9759**DATE **December 17, 1963**

To:

Albena Mines Ltd.,**Box 610,****Lake Cowichan, B.C.**

Certificate of Assay
COAST ELDRIDGE
ENGINEERS & CHEMISTS LTD.
 125 EAST 4TH AVE. VANCOUVER 10. CANADA

We Hereby Certify that the following are the results of assays made by us upon submitted **Ore** samples

MARKED	GOLD		SILVER	Copper (Cu)	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT.					
B-1		\$		4.87					
B-2				4.18					
B-3				3.96					
B-4				4.18					
B-5				4.23					

Shipment to AAA(ANDA) - 1/10. 18/63
50# per sample - quartered
from 20# per truck load
at 50# samples / 110 Tons

Gold calculated at \$ per ounce

Note: Rejects retained one week.
 Pulps retained one month.
 Pulps and rejects may be stored for a maximum of one year by special arrangement.

H. Shingles

Provincial Assayer



PHONE: () TY 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO. **A.3-A.4-63**
(9113)

DATE **November 5th, 1963**

To:

Alberta Mines Ltd.,
Lake Cowichan, B. C.

Certificate of Assay
COAST ELDRIDGE
ENGINEERS & CHEMISTS LTD.
125 EAST 4TH AVE. VANCOUVER 10, CANADA

We Hereby Certify that the following are the results of assays made by us upon submitted **Ore** samples.

MARKED	GOLD		SILVER		Copper (Cu)		PER CENT.	VALUE PER TON	VALUE PER TON	TOTAL VALUE PER TON (2000 LBS.)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT.	VALUE PER TON				
		\$		\$		\$		\$	\$	
301					7.81					
302					3.28					
303					4.21					
304					4.14					
305					3.86					
306					6.07					
307					3.49					

(OR Samples)

ORE SHIPMENT

Nov. 18/63

SM

Gold calculated at \$..... per ounce.

Calculated at..... cents per lb.

Silver calculated at \$..... per ounce.

Calculated at..... cents per lb.

Note: Rejects retained one week.
Pulps retained three months.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

H. Sharpes

Provincial Assayer



6-4111

ELDRIDGE

Alberta Mines Ltd.,

P. O. Box 610,

Cowichan, B. C.

Certificate of Assay
COAST ELDRIDGE
ENGINEERS & CHEMISTS LTD.
125 EAST 4TH AVE. VANCOUVER 10, CANADA

FILE NO **A.3-A.4-63**
(9360)

DATE **November 22nd, 1963**

We Hereby Certify that the following are the results of assays made by us upon submitted **Ore** samples

MARKED	GOLD		SILVER	Copper (Cu)	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT.					
		\$							
308				3.49					
309				2.50					
310				2.92					
311				3.12					
312				6.20					
313				2.74					
314				1.72					
315				7.14					
316				8.64					
Composite #1, 302-305 & 307-311 & 313-314			0.62						
Composite #2, 301-306-312-315-316			0.08						

*(air samples
ore shipment
Nov. 18/63*

Gold calculated at \$... per ounce

Note: Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

H. Sharkey

Provincial Assayer

redo
~~copy~~

CARS

CAR SAMPLES Production 1963

No	DAY	CARS	Tons	STORE	% Cu	
		12	35.0		7.11	273.35
		12	38.6		3.22	129.89
		10	31.0		4.50	139.26
		12	29.7		4.14	122.96
		9	29.7		3.86	114.64
- 306		5	28.0	BETA 1	6.07	169.96
307		11	46.3	BETA 3	3.49	126.69
308		8	26.4	BETA 3	3.49	92.14
309		10	33.0	"	2.50	82.50
310	Nov 1st	17	56.1	"	2.92	163.81
311	Nov 2nd	13 1/2	44.5	"	3.12	138.84
- 312	Nov 4th	8 1/2	29.7	BETA 1	6.20	184.14
313	Nov 6th	8	26.4	BETA 3	2.74	72.34
314	"	11	36.3	"	1.72	62.44
- 315	"	7	24.5	BETA 1	7.14	174.92
316	Nov 12th	9	21.0	BETA 1	8.64	181.44

61 cars
 total 312

1 BETA 3 Muck - 0.62 Ag 3917 @ 3.19%
 2 BETA 1 Muck 0.08 Ag 1387 @ 7.12%
 529 Tons @ 22% Cu
 0.43% Ag

Beta #1 $\frac{98382}{1387} = 7.12$
 Beta #3 $\frac{1245.51}{841} =$
 Total $\frac{222933}{529}$

Tons Shipped = 589.5
 Beta #1 7.12% Ag 144.5 Tons @ 6.75% Cu
 Beta #3 - 44.5 Tons @ 3.09% Cu
 BALANCED

ALBERTA MINES LTD
 DRILL HOLE SAMPLES

Sample No	Location	Length	Ca
35	DDH U-1 119' core	5.5	1.31
37	DDH U-5 31-34 "	3.0	1.06
38	DDH U-2 45-52 "	7.0	1.84
39	DDH U-3 AC-52 - other half core	7.0	1.95

- KENNEDY -
 - WILLIAMS -

ALBERTA MINES LTD
SAMPLES from D.D. Holes

Sample	Location	Interval	Core	Lead	% Cu	% Fe	A.G.
1	DDH S-1	104'-105 1/2'	core	15'	1.63		
2	DDH S-2	54 1/2 - 58'	"	3.5	10.00		
3	DDH S-2	58 - 62'	"	4.0	0.63		
4	DDH S-3	43.5 - 55.75	"	12.25	0.48 ✓		
5	DDH S-3	55.75 - 59.5	"	3.75	5.80 ✓		
6	DDH S-4	6 - 27.5	"	21.5	0.30 ✓	31.29 ✓	
7	DDH S-4	27.5 - 34.5	"	20	15.20 ✓		
8	DDH S-4	28 - 55'	sludge.	50	12.27 ✓		
9	DDH S-4	34.5 - 47'	core	12.5	0.25 ✓		
10	DDH P-1	0 - 9'	"	30	2.72 ✓		
11	DDH P-1	9 - 22'	"	13.0	3.35 ✓	41.44 ✓	
12	DDH P-2	0 - 4'	"	11.0	3.10 ✓	30.46 ✓	
<hr/>							
Composite * 2, 5, 7							
13	D.D.H S-5	25 - 29.5	sludge.	45	8.32 ✓		
14	DDH S-5	29.5 - 34.0	sludge	4.5	4.53		
15	DDH S-5	34.0 - 38.5	"	4.5	1.39		
16	DDH S-5	38.5 - 43.0	"	4.5	2.32		
17	DDH S-5	43.0 - 47.5	"	4.5	2.56	33.73	
18	DDH S-9	124 - 128	core	4.5	2.44		
19	DDH S-9	128 - 132	"	4.5	2.30		
20	DDH S-12	14 - 17.5	core	14.5	1.74		
21	DDH S-12	17.5 - 21	"	14.5	0.25		
22	DDH S-12	21 - 24.5	"	10.5	0.45	46	
23	DDH S-15	186 - 187	"	10	4.23		
24	DDH S-15	187 - 188	"	3.5	5.29		
25	DDH S-15	188 - 189	"	3.0	2.43		
26	DDH S-12	242 - 244	"	5.5	1.57	15.2	
27	DDH S-17	45 - 48	"	20	6.76		
28	DDH S-17	48 - 51	"	6.5	6.98		
29	DDH S-17	51 - 54	"	10.0	2.78		
30	DDH S-18	176 - 181	"	7.0	2.08		
31	DDH S-20	172 - 177	"	6.5	1.39		
32	DDH S-20	177 - 182	"	6.5	1.61		
33	DDH S-21	33 - 37	"	4.0	6.19		
34	DDH S-21	37 - 41	"	2.5	0.47	20%	
35	DDH S-21	41 - 45	"	4.5	1.67		

ALBERTA MINES LTD

BS

STA

FREE & BREAK SAMPLES

DED

ELEV

SAMP #

LOCATION

WIDTH

Cu Au Ag Fe

101	9-49 Rse - South Face Jan 8/63.	face	6'	1.50	} Away 6' width 1.40% Cu Length 28'
102	" Δ - 2' (South)	back	5½'	1.90	
103	" Δ + 6' (North)	back	6'	1.20	
104	" Δ + 11½' (N)	face	6½'	1.10	
105	COMPOSITE 101, 102, 103, 104			1.50	30
106	920 DEFT N Face (Area 3)	back	9'	1.65	} Aw 5' 1.40% Cu Length 52'
107	" " " "	back	6'	1.15	
108	" " " + 20' S	face	8'	1.37	
109	" " " 28' S	face	4'	1.10	
110	" " " 34' S	face	4.5'	1.90	
111	" " " 42' S	face	4.0'	0.85	
112	" " " 52' S	face	3.25'	1.92	
113	COMPOSITE 106 - 112 inc.			1.42	22.2
114	9-49 Rse - Δ + 17' (N)	face	5.0'	1.15	
115	9-49 Rse - Δ + 25' (N)	face	5.0'	1.60	
116	920 DEFT Δ 102 + 46' (North side)	face	3.0'	1.65	
117	" " Δ 102 + 50' (North side)	back	5.0'	3.60	
118	920 DEFT Δ 103 + 6' (North side)	face	2.2'	1.65	
	(Δ 103 - 104 - 42.5')				
119	920 DEFT Δ 103 + 34'	face	5.0'	2.00	} Aw 4.5' 1.91% Cu Length 31'
120	920 DEFT Δ 103 + 36'	face	5.0'	1.80	
121	920 DEFT Δ 103 + 62½'	face	5.5'	1.80	
122	920 DEFT Δ 104 + 25'	face	5.0'	2.20	
123	920 DEFT Δ 104 + 30'	face	3.7'	2.00	
124	920 DEFT Δ 104 + 35'	face	2.5'	1.55	
125	COMPOSITE 119 - 124 inc.			-	Tf T -
126	920 DEFT Δ 104 + 40'	face	2.0'	1.50	
127	920 DEFT Δ 104 + 43'	face	2.5'	1.75	
128	920 DEFT Δ 104 + 50.2'	face	2.0'	1.65	
129	920 DEFT Δ 104 + 55.8'	face	2.0'	1.40	

FACE & BACK SAMPLES

No.	LOCATION	WIDTH	% Cu	Au	Ag	Fe
130	920 Dr Δ 103 + 16'	Face 6.0'	3.80			
131	920 Dr Δ 103 + 22'	Face 5.0'	2.50			
132	920 Dr Δ 103 + 27.2' <small>(not real data?)</small>	face 5.5'	2.47			
133	920 Dr Δ 103 + 32'	face 5.5'	1.55			
134	920 Dr Δ 103 + 10'	back 6.5'	3.25			
135	COMPOSITE 130-134 (Au, & Ag)					
136	920 Dr Δ 104 + 61½' <small>(Face) (Back)</small>	face 7.5'	1.57			
137	920 Dr Δ 104 + 65' <small>(Face) (Back)</small>	face 6.5'	1.48			
138	920 Dr Δ 104 + 69'	face 6.0'	1.40			
139	1000 SDR	back 4.5'	2.03			
140		back 1.5'	12.90			
141		face 3.0'	14.05			

9/17/5

To 0.20



Mounts LTV - Dye thin Log DDH S-1

LOCATION: West end flat Track, base 3000' Lat - 12683.00
 BRG: ~~151°06'E~~ LATERAL: 145% Dep - 15606.27
 DIT: ~ 23° Date: Jan 3/62 (final) Elev - 1028.9

Foot	Case	Log	SAMPLE	FR	Notes
	6-22				Shred & altered volcanic? probably no core. Cutting rusty & green (granite & epidote)
	29-22				Volcanics with ~ 50% skarn development (granite & epidote)
	46-66				Volcanics - fine grained gray green rock (probably fragmented) locally minor skarn
	25-50-102				Volcanics - fragmented - chalcopyrite blasts for 3" - 4.5"
	70-59-85				Volcanics - fine - fine grained gray green rock. 1/4" blaste of chalc in black & white at 90° to 45° to core
	104-32				Average thin - 2 push work - 10' skarn
	105-33				Granite with skarn & chlorite
	105-34				105°
	105-36				Volcanic - 1' of blaste above of Bathy? - dark fine grained small felsite phenocrysts
	105-123				Felsite - Bathy?
	121-125				Felsite - Bathy?
	125-145				Granite - fine grained - fair weathered, at 1/4" to 1/2" (small) Chalcopyrite

Location: ...
Dip: $NS2^{\circ}44'E$ Length: 102.5
Date: ...

Lat 12676.35
Dip 15676.15
Elev 1056.3

Sample #

0-100 ...
10-100 ...
10-100 ...
10-100 ...
10-100 ...
10-100 ...
10-100 ...

42 35

42 30

10-100 ...
10-100 ...
10-100 ...
10-100 ...
10-100 ...
10-100 ...
10-100 ...

10-100 ...
10-100 ...
10-100 ...

ASI'IO'E
Date: _____

Lat 12672.32
Lon 15672.08
Elev 1050.6

Scale 1: _____

ASI'IO'E
Date: _____
Lat 12672.32
Lon 15672.08
Elev 1050.6

DYES

1225

1225

ASI'IO'E

[Faint, illegible handwriting throughout the page, likely bleed-through from the reverse side of the document. Some words like "Doubt" and "quadrant" are partially discernible.]

Location - No 1 Tower, base 200 ft

Lat

No 5000

Level 23

Ref

Date

Jan 1964

14

01. ... hills ...

...

...

...

...

SEC

Longitudinal section, base 250
Dip 25° W
3-76°
LENGTH 65 ft
COMPLETION Jan 22/02
LAT
DIP
ELEV

From core

Loc: ...

30 ...
...
...
...
...

24-26. Greenish, 10% magnetite.
fine grained, some malachite

27-28. ...
...
from 25-285 -

#13. sludge 45' 0.3
#14. sludge 45' 4.35

29-33. ...
...
...
...
...

34-42. ...
...
...
...
...

43-44. ...
...
...
...
...

45-49. ...
...
...
...
...

49-63. ...
...
...
...
...

Location: East end of Jasper (Lacrose St)
Dip: N30'42'E Level: 143
Dip: 30° Date: June Feb 1964

Lot 12679.76
Dip 15623.99
Elev 1039.9

COAL 26'

- 0-25 141 - Thinly bedded, ...
with many fragments of
volcanics, altered volcanics (agitated)
+ quartzite
- 25-35 142 - ...
... (agitated)
- 35-45 143 - ...
... (agitated)
- 45-46 144 - ...
fine grained med. grey rock
with small white phenocrysts
- 46-70 145 - Volcanics - fragmental - some breccia
at 45 to 70 to 75
- 70-148 146 - Volcanics (flow) - fine grained med.
at 87' - breccia with alteration at 87' level
at 91' - breccia with agitated siliceous
chalepyrite at 91' level
at 104' - breccia, fragmental altered zone
possibly 100' to 105' level. Some is
microcrystalline breccia + alteration
from 104' to 105' level. Some is
after 105'

146

1955 LTD - Lake Hill, N.Y. 11755
 TOWN, SECTION 500
 LENGTH 166.11'
 COMPLETED
 LOT 11, 12, 13, 14
 DIST. 8.75'
 ELEV. 100.00'

CORNER 4'
 SAMPLE FT. 11.00

11-216 *Falsopar porphyra* *dyla*
 contact at 11' = 30° to core

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

11-216 *Porosira* *fragments* - *Platystrophia*
 fragment, contact at 30° to core, one
 shell, *Porosira* *fragments*

Location: No 2 Trench - Section 440

W. 11.10.50

Reel: 115-30 E

Log No: 145

14. 15. 51. 23

Date: 11.5.51

Operator

End 1061.2

2. 11/16

11

11007

12. 42. ... some purple ...

13. 44. ...

14. 46. ...

15. 48. ...

16. 50. ...

17. 52. ...

18. 54. ...

19. 56. ...

20. 58. ...

21. 60. ...

22. 62. ...

23. 64. ...

24. 66. ...

25. 68. ...

26. 70. ...

27. 72. ...

28. 74. ...

29. 76. ...

1707

LOCATION: No 2 TRENCH SECTION 440 LAT
 REG. DIST. LENGTH 190' DEP
 DIP 75° ELV

HT	THICKNESS	DESCRIPTION	MAP	FR	THICK
04		Crude oil			
05	15'	Ferrous concretions			
06	27'	Dike material - fine ground dark gray edges			
07	33'	Granitic shales with chalcopyrite with quartz + 2% Ca, + 20% Fe	#19	30-53 150'	2.5%
08	54'	Granitic - not mineralized			
09	60'	Ferrous dark			
10	67'	Chalcopyrite in pyrite			
11	74'	Ferrous concretions - some show development of epidote alteration thin sections in altered patches of quartz + quartz + stringer (1.5%)			
12	81'	Ferrous			
13	88'	Ferrous concretions similar to above - some alteration			
14	95'	Dark dark pyrophyllite			
15	102'	Ferrous concretions weathered some weathering to talc + siliceous			
16	109'	Ferrous concretions dark gray some alteration (tuff?)			

Low - low tide
1000 - 1000 - 1000
1000 - 1000 - 1000

at mid-tide
about 1000 - 1000
1000 - 1000 - 1000
1000 - 1000 - 1000

and eye on this
1000 - 1000 - 1000
1000 - 1000 - 1000

patchy appearance
1000 - 1000 - 1000
1000 - 1000 - 1000

August 1914 - Dredge Haul No. 1
 LOCATION: BEYOND E. TACOMA SECTION 575
 Box No. 1011 LENGTH 308
 Dredge

11-11-14
 Dredge No. 1011
 Length 308

- 11-11-14
- 11-12-14
- 11-13-14
- 11-14-14
- 11-15-14
- 11-16-14
- 11-17-14
- 11-18-14
- 11-19-14
- 11-20-14
- 11-21-14
- 11-22-14
- 11-23-14
- 11-24-14
- 11-25-14
- 11-26-14
- 11-27-14
- 11-28-14
- 11-29-14
- 11-30-14
- 12-1-14
- 12-2-14
- 12-3-14
- 12-4-14
- 12-5-14
- 12-6-14
- 12-7-14
- 12-8-14
- 12-9-14
- 12-10-14
- 12-11-14
- 12-12-14
- 12-13-14
- 12-14-14
- 12-15-14
- 12-16-14
- 12-17-14
- 12-18-14
- 12-19-14
- 12-20-14
- 12-21-14
- 12-22-14
- 12-23-14
- 12-24-14
- 12-25-14
- 12-26-14
- 12-27-14
- 12-28-14
- 12-29-14
- 12-30-14

same as last time

continued

101 102. Feathers - locusts - main
103 104. ... chelipeds (lost 103/104)

105 106. ... with chelipeds
107 108. ...

109 110. ...
111 112. ...
113 114. ...
115 116. ...

117 118. ...
119 120. ...

121 122. ...

123 124. ...

125 126. ...

127 128. ...

129 130. ...

131

LOGARITHM SECTION 575, on bench above river
LEG. LEWIS 401
LAT DEP
ELEV

- 0-5' overburden CASING 8'
- 5-18 57 GRANODIORITE
- 18-36 37 Dyke - dark green malachite 15'
- 36-72 38 GRANODIORITE
- 72-80 1/2 39 Dyke - dark fine grained rock
- 80-101 40 GRANODIORITE
- 101-171 41 Felsite - fractured - many water courses
- 171-186 42 GRANODIORITE
- 186-195 43 Felsite
- 195-215 44 Dyke - fine grained light green, small alk. glass crystals
- 215-240 45 GRANODIORITE - dip at 120°
- 240-246 46 Dyke - fine grained light green, small glass crystals
- 246-274 47 Dyke - dark green fine grained, chlorite
dip at 120°
- 274-329 48 Dyke - fine grained light - as above
dip at 229° or 25°
- 329-357 49 Diorite - dark green, chlorite, massive
fine grained (flow)
- 357-384 50 Dyke - light fine grained contacts at 45°
- 384-410 51 Diorite - dark, chlorite - probably fragmented
dip at 20° before 300'
dip at 20°, same as above - 384-410
dip at 20°, 2' push at 384'
- 410-416 52 Br. Granodiorite, some apophysis No. 3, 300'
- 416-420 53 Sandstone - massive, some toward - not mineralized
- 420-425 54 E. Felsite
- 425-442 55 White Felsite - some chlorite
- 442-453 56 Dyke - light blue green, some glass
- 453-473 57 White Felsite - massive, some chlorite
as normal felsite - dip at 375°
- 473-481 58 Felsite

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Location Station 380 Lat 12719.65
Elev 1145 N45°16' E Length 69 Dist 15509.94
Dip -24° Elev 1029.7

Contour 4'

- 7 02 SAND, magnetite, some vol. cherts
- 12 78 ... (altered?)
- 14 24 60 ... magnetite, some cherts
- 14 24 60 ... (altered volcanics?)
- 14 28 72 ...
- 14 30 74 ...
- 42 94 ...
- 51 114 ...

cont (9/10)

45
11

Section 380 LAT
Length 74" DEP
DIP

15-23 106 Sand 14'
15-24 83 *Platystrophia* - poorly developed white pleurogonite
on slightly colored rock.
Length 11" to 16"

19-40 82 *Favosites* - flattened, and thin
lenticular at 50" to 65"
15-25 84 *Platystrophia* - variable form white pleurogonite
at 50" to 65" to the grayish
pleurogonite at 65" to 74"

15-62 74 *Favosites* - flattened, and thin
lenticular at 50" to 65"

15-55 86 *Favosites* - pyramidal with white pleurogonite

15-74 76 *Favosites* - and *Strophia*

74

JK

Allegany Mines LTD - Deming Denz Log

5-17

Location - No 2 trench - Section 470

Lat 12817.76

Box N57°36'E Length 84'

15488.77

Dip - 61

Elev 1060.2

100' line

Log

James Smith H. 547

2-25 98' Fragmental breccias - minor alteration
at talc-pyrite fraction of pyrite 60'

2-26 98' Breccias
2-27 98' Breccias
2-28 98' Breccias

2-29 98' Fragmental breccias (at 0-25')

2-30 98' Breccias

55-58	massive + 2 1/2 in, 5th dip 60°	27	30'	1.25
58-65	breccias			
65-66	shales of arg.	28	35'	1.35
66-72	shales of arg.			

2-32 98' Breccias with shales of arg.

2-34 98' Breccias, some argillaceous with shales

2-35 98' Breccias

2-37

2-38

2-39

ALBERTA MINES LTD - DIAMOND DRILL LOG 3-18

LOCATION: SECTION 200, below #1 level

BRO: LENGTH:

LT
Dev
LEV

DIP: -50°

LOG	DEPTH	DESCRIPTION	SAMPLE WIDTH	ASSAY
1	0-100	DRILLING		
10	100-110	Quartzite - not well sized - unrefined		
20	110-120	quartzite - 4" to 1" size		
30	120-130	quartzite (unrefined) - volume 4		
40	130-140	quartzite - some granitic - unrefined		
50	140-150	quartzite & sections - at 50-51'		
60	150-160	quartzite - granitic - sp. 51-60		
70	160-170	quartzite - granitic - variable		
80	170-180	quartzite		
90	180-190	quartzite - granitic - not well sized - unrefined		
100	190-200	quartzite - granitic - unrefined - 50'		
110	200-210	quartzite - granitic - local quartzite structure		
120	210-220	quartzite - granitic - alteration of volume		
130	220-230	quartzite - granitic - with chlorite - variable		
140	230-240	quartzite - granitic - variable	10.0	2.75% Cu
150	240-250	quartzite - granitic - granitic - variable		
160	250-260	quartzite - granitic - granitic - variable		
170	260-270	quartzite - granitic - granitic - variable		
180	270-280	quartzite - granitic - granitic - variable		
190	280-290	quartzite - granitic - granitic - variable		
200	290-300	quartzite - granitic - granitic - variable		
210	300-310	quartzite - granitic - granitic - variable		
220	310-320	quartzite - granitic - granitic - variable		
230	320-330	quartzite - granitic - granitic - variable		
240	330-340	quartzite - granitic - granitic - variable		
250	340-350	quartzite - granitic - granitic - variable		
260	350-360	quartzite - granitic - granitic - variable		
270	360-370	quartzite - granitic - granitic - variable		
280	370-380	quartzite - granitic - granitic - variable		
290	380-390	quartzite - granitic - granitic - variable		
300	390-400	quartzite - granitic - granitic - variable		

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Location: Section 200, Block #1, Tract

Lot. 12636.76

N56°25'E Dip - 27°

D.P. 15701.11

1066.0

- 16-17 256 Unconformity - Chert
- 18-19 256 Unconformity - weathered
- 20-21 256 Unconformity - weathered
- 22-23 256 Unconformity - weathered
- 24-25 256 Unconformity - weathered
- 26-27 256 Unconformity - weathered
- 28-29 256 Unconformity - weathered
- 30-31 256 Unconformity - weathered
- 32-33 256 Unconformity - weathered
- 34-35 256 Unconformity - weathered
- 36-37 256 Unconformity - weathered
- 38-39 256 Unconformity - weathered
- 40-41 256 Unconformity - weathered
- 42-43 256 Unconformity - weathered
- 44-45 256 Unconformity - weathered
- 46-47 256 Unconformity - weathered
- 48-49 256 Unconformity - weathered
- 50-51 256 Unconformity - weathered
- 52-53 256 Unconformity - weathered
- 54-55 256 Unconformity - weathered
- 56-57 256 Unconformity - weathered
- 58-59 256 Unconformity - weathered
- 60-61 256 Unconformity - weathered
- 62-63 256 Unconformity - weathered
- 64-65 256 Unconformity - weathered
- 66-67 256 Unconformity - weathered
- 68-69 256 Unconformity - weathered
- 70-71 256 Unconformity - weathered
- 72-73 256 Unconformity - weathered
- 74-75 256 Unconformity - weathered
- 76-77 256 Unconformity - weathered
- 78-79 256 Unconformity - weathered
- 80-81 256 Unconformity - weathered
- 82-83 256 Unconformity - weathered
- 84-85 256 Unconformity - weathered
- 86-87 256 Unconformity - weathered
- 88-89 256 Unconformity - weathered
- 90-91 256 Unconformity - weathered
- 92-93 256 Unconformity - weathered
- 94-95 256 Unconformity - weathered
- 96-97 256 Unconformity - weathered
- 98-99 256 Unconformity - weathered
- 100-101 256 Unconformity - weathered
- 102-103 256 Unconformity - weathered
- 104-105 256 Unconformity - weathered
- 106-107 256 Unconformity - weathered
- 108-109 256 Unconformity - weathered
- 110-111 256 Unconformity - weathered
- 112-113 256 Unconformity - weathered
- 114-115 256 Unconformity - weathered
- 116-117 256 Unconformity - weathered
- 118-119 256 Unconformity - weathered
- 120-121 256 Unconformity - weathered
- 122-123 256 Unconformity - weathered
- 124-125 256 Unconformity - weathered
- 126-127 256 Unconformity - weathered
- 128-129 256 Unconformity - weathered
- 130-131 256 Unconformity - weathered
- 132-133 256 Unconformity - weathered
- 134-135 256 Unconformity - weathered
- 136-137 256 Unconformity - weathered
- 138-139 256 Unconformity - weathered
- 140-141 256 Unconformity - weathered
- 142-143 256 Unconformity - weathered
- 144-145 256 Unconformity - weathered
- 146-147 256 Unconformity - weathered
- 148-149 256 Unconformity - weathered
- 150-151 256 Unconformity - weathered
- 152-153 256 Unconformity - weathered
- 154-155 256 Unconformity - weathered
- 156-157 256 Unconformity - weathered
- 158-159 256 Unconformity - weathered
- 160-161 256 Unconformity - weathered
- 162-163 256 Unconformity - weathered
- 164-165 256 Unconformity - weathered
- 166-167 256 Unconformity - weathered
- 168-169 256 Unconformity - weathered
- 170-171 256 Unconformity - weathered
- 172-173 256 Unconformity - weathered
- 174-175 256 Unconformity - weathered
- 176-177 256 Unconformity - weathered
- 178-179 256 Unconformity - weathered
- 180-181 256 Unconformity - weathered
- 182-183 256 Unconformity - weathered
- 184-185 256 Unconformity - weathered
- 186-187 256 Unconformity - weathered
- 188-189 256 Unconformity - weathered
- 190-191 256 Unconformity - weathered
- 192-193 256 Unconformity - weathered
- 194-195 256 Unconformity - weathered
- 196-197 256 Unconformity - weathered
- 198-199 256 Unconformity - weathered
- 200-201 256 Unconformity - weathered

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ALBERTA MINES LTD DIAMOND DRILL LOG

5-20

LOCATION SECTION 150, BELOW #1 TRENCH

LAT
 DEP
 ELEV

829

DIP -41°

LENGTH 217'

SAMPLE WORK ASSAY

From	To	Log				
0-45	-	OLLEBORVEN (CASING 48')				
45-52	15%	Volcanics				
52-61	25%	granulitic volcanics				
61-65	6%	Dark chert & light porphyry				
65-67	4%	Fragmentation stringer granodiorite at 66'				
67-68	4%	Dark chert & porphyry				
68-95		Fragmentation & glassy volcanics, fractured & porous to 82', minor epidote. mainly 68-82' 30%, 82-95-100%				
95-100	10%	Fluorite altered fragmental volcanics				
100-124	25%	Volcanics - light grey cherty & fragmental minor alteration - blue chert at 105'				
124-134	25%	Volcanics dark green, massive (generally) fragmental in part near 124 & 134				
134-170 1/2	25%	Altered fragmental volcanics (epidote & garnetite) mainly garnetite 155-161				
170 1/2-177	25%	Gneiss with chalcoprite, locally mag. - with & minor pyrite	21	65	1.39	% Cu
177-183 1/2	25%		32	65	1.61	% Cu
183 1/2-204	10%	Gneiss, of fragmental, minor alteration banding				
204 1/2-211	10%	Fragmentation volcanics - altered				
211-217	10%	Felspar porphyry - dark				
			END - 217'			

REGINA MINES LTD - DIAMOND DRILL LOG

Lat 12,670.61
Dep 15,661.97
LWD 1099.1

LOCATION SECTION 250 - No. 1 TRENCH
Bearing N 33° 15' E Dip - 43°

Depth	Core	Log	SAMPLE WIDTH	ASSAY
0-7	-	OVERBURDEN (CAMP)		
7-33	30%	Gneiss of magnetite (± 20% Fe)		
33-37	60%	Magnetite & chalcopirite - mainly chalcopirite near 33' 25" est. 5% Cu, 25% Fe	#33 4.0	6.19% Cu
37-43 1/2	15%	Gneiss with heavy magnetite - some chalcopirite to 38'		
43-49	30%	Volcanic breccia / dyke - dark edges - fractured.		
49-57 1/2	0	gneiss - garnet schist		
57-77	25%	Gneiss (magnetite) with chalcopirite & epidote, minor chalcopirite & mica. to 72' chalcopirite & epidote		
72-73		epidote alteration - chalcopirite & 5% Cu to 72'		
77-86 1/2	100%	Volcanic - dark grey massive, minor epidote.		
86-101	100%	Volcanic - fragmental - dark grey, minor epidote.		
101-111	60%	Granodiorite		
111-12 1/2	10%	Basalt - pretty dark.		
122-175	10%	Volcanic - dark grey, generally massive minor local alteration, notably from 135' (see fragmental volc. 126)		
175-186 1/2	90%	Porphyry dyke - dark near edges		
186-189 1/2	100%	Altered Volcanic		
189-195	100%	Dyke - dark grey fine grained		
195-201 1/2	90%	Altered fragmental volcanic		
201 1/2-204	30%	Garnetite, minor chalcopirite	#34 2.5'	0.47% Cu
204-208 1/2	75%	Epidote skarn with minor chalcopirite & chalcopirite	#35 4.5'	4.50% Cu
208 1/2-212 1/2	75%	Epidote		
212-216	65%	Altered fragmental volcanic		
216-217	100%	Granodiorite		
217-224	90%	Altered fragmental volcanic - epidote, garnet over dyke 22-222		
224-330	65%	epidote		

St. Agnes

Alberto Flores LTD - Davis Hall Ltd

Location: Davis County, Utah

Dip: N46°E DCR - 33°

55' Observed - 57' 63116

10-27 Volcanics (tuffs) massive,
grapt. fine grained.
10-28 Volcanics - some magnetite
10-29 Tuffs contain little magnetite -
mainly magnetite
10-30 Chalcopyrite, pyrite & pyrrhotite (in chalcite + ff)

10-44 30' Volcanics - cherty, some fine grained
some magnetite
fault at base

10-12 30' Limestone

10-11 30' Volcanics - cherty, some fine grained
some magnetite & pyrite

10-13 30' Limestone

10-14 30' Volcanics - cherty, some fine grained
some magnetite & pyrite

9/8

LOCATION: LOW CLIFF ANTONIANT
Dip N34°E Dip -35°

Core Log

0-70 - OVERLOOK - CASING 72'

70-136 86' GRANODIORITE

136-240 95' Volcanics (tuffs) dark grey
fine grained, generally massive
- some fragmental sections -
locally more argillaceous. bluish-grey with
interbedded argillaceous
240-255 55' unconsolidated argillite in buff
color. some massive argillite

240-244 76'

244-246 02' Full iron - almost chert like rock

246-255 60' Volcanics - fine grained, grey, massive

JK

LOCATION - 'TACOGA' ANOMALY - C. LINE

BEA. N 85° E

DIP - 30°

ft
core
Log

0-17 Overburden - clays.

17-29 302 Volcanics fractured; 1' epidote at 26'

29-42 852 Volcanics - grey-green fine grained.
locally more epidote garnet alteration

42-52 603 Porphyry dyke

52-150 952 Volcanics - dark grey massive.
locally more pyrite; pyrrhotite.
zone of fracturing, calcite, carbonate 122-129.

GLS

ALBERTA MINES LTD - DIAMOND DRILL LOG

LOCATION TABORA ANOMALY - C LINE

5-25

BAG 585' W

DIP - 73°

From 4' Core

Log

0-5 OJERBUDEN - CASING.

5-13 1/2 0 SOFT mud - no core - (garnet & c mud.)

13 1/2 - 14 1/2 6% garnetite with magnetite stringers.

14 1/2 - 29 0 garnetite mud - no core.

29 - 35 95% Epidote rock.

35 - 41 6% garnetite.

41 - 48 9% Volcanics with stringers & patches of garnetite.

48 - 70 8% dark volcanics - locally more pyroclastic & pyrite

End 70

SLG

LOCATION TABOGA ANOMALY - C-Link

Brg N 85° E

Dip - 61½°

4'

LOG

0 4½

Overburden

4½ - 14 10% GRANITE - very little core, - mind only
10 - 14 ft - some magnetite to 20 ft.

14 20½ 55% ERODIA Rock

20½ - 23 70% Volcanics - dark grey

23 45½ 12% SKARN - garnets, some epidote
- mainly mud, no core.

45½ - 52 85% D/Y? - part dark grey green, some plagioclase
part bleached, cherty appearance.

52 - 58 95% ALTERED Volcanics - patches & stringers
of quartz and epidote.

58 - 77 95% Volcanics - generally dark grey green, massive.
local silica alteration (chert) & local
massive quartz & pyroxene.

gls
/

LOCATION TABORA ANOMALY LINE (A+25')

BQS. S. 85° W

DIP - 81°

From	To	%	LOG
0 - 5	14		OVERBORDED
5	16	65%	VOLCANICS - dark grey - local laminated pyrite
16	22	35%	EPID + rock
22	23	6%	GRANITIC
23	26	9%	Fine grained cherty volcanic? - light grey.
26	38	9%	SKARN - epidote & garnet - replacement fragmental
38	43	9%	VOLCANICS - dark grey green massive mass alteration
43	47	9%	REPLACED VOLCANICS - with clumps of patches of garnets & epidote
47	74	9%	VOLCANICS - massive dark green mass alteration mass patches locally

END 74'

JLS

LOCATION: TAILOR ANOMALY - 1000 D. 75'

Dip 585 W Dip 90°

LOG

0-22 - OVERLOOK - CASING

11-32 25h Solonchaks - on part fragmental,
low part of epide alteration

11-56 35h Solonchaks - dark grey

11-60 40h Dyke - dark to mid grey
on phosphyte (white)

11-63 45h Solonchaks - dark grey
low part of epide alteration

[Handwritten signature]

LOCATION Face 920 ft Cut
Bec 575°E Dip 0°

Lat 12,870 W
Dep 18,550 E
Elev 925

Log

Sample No

Fr Assay

0-53 100 Volcanics - (tuff) dark grey-green

15-17 Brecciated, rounded, and
angular pieces, in matrix of
tuffite, about 15' to 60' diam

66 100 Volcanics - (flow) dark grey-green with
some rhyolite!

some rhyolite alteration
in place (N?) at 66'
residual clay on fracture
in rhyolite

67-88 100 Volcanics (tuff) dark grey-green, fine grained
more brecciated & alteration on fracture

89-114 50 Breccia - highly altered, quartz & epidote

114-119 68 1/2 Sand with marginal shales

5.5

119 1/2 - 120 1/2 82 Volcanics - highly altered (rhyolite
fragments) in matrix of tuffite

120 1/2 - 121 1/2 82 Volcanics - highly altered
quartz & epidote, especially
highly altered some at 15'

121 1/2 - 122 1/2 86 Volcanics - altered

Drill Hole Log

U-1 cont.

From ^{to} Log

161-195 85% Volcanics, mainly cherty, local
epidote alteration.
1' heavy rock 161-162.
Water course @ 195' (fault)

195-203 86% E. P. P. P.

203-219 98% - Volcanics - Basalts - heavy garnetite epidote alteration.

219-234 98% - Volcanics - (Tuff) - fine grained, grey
generally massive - minor alt. action

234-250 80% E. P. P. P.

83

Location 920 X-cut
 Dip 510°W Dip 0°

Lat 12,869 W
 Dip 15,545 E
 Elevation 925

Time to Log

2-1 107. Volcanics - dark fanglomerate (buff)

1-26 100. Felsic Rock
 60" contact at 4'
 edges, grading to normal
 about 9' & to darker about 25'

8/5

ANOSTA MINES LTD - Drill Hole log U-3
 LOCATION - Face 920 X-cut
 BRG N 20° E Dip 0°
 LAT 12,873N
 DEP 15,550E
 Elev 920

From	To	Log	Sample #	FT	Assay
0	28 1/2	100%			
		Volcanics (tuffs) - gray massive, fine grained. Breccia 3 1/2 to 5'			
28 1/2	31	100%			
		GRAN. garnetite & epidote			
31	34	100%			
		GARNETITE with chlorophane + 1%	37	3.0	1.06 %C
34	35	100%			
		GARNETITE			
35	39	85%			
		Volcanics - highly altered			
39	45	15			
		GARNETITE, some chlorite; some glauconite locally			
45	52	45%			
		GARNETITE with dark MACULITE + CHALCOPHANE + 5% Cu, 30% Fe	58	7.0	1.95 %C
52	58	25%			
		Volcanics cherty - some alteration			

J.S. Gips
 Oct 29/62
 Compared with fresh log from drift on Alpha #3 zone
 Some mineral showing from about 61 to 64 ft
 End of Hole (64')
 JSG

ALBERTA MINES LTD - GLEN HALL LOG

J-4

LOCATION: 920 f. cut
Dip N12°E Dip +30°

Lat 12836 N
Dip 14,400 E
Elev 927

1/2
200 cor log

0-5 1/2 m. GRANODIORITE

5 1/2 - 13. 90% VOLCANICS - alteration & fractured
little chlorite & pyrite at 6'

13-19 20% FELSPAR PORPHYRY

5/16



ALBETA MINES LTD - Diana Hill Loc

U-5

Location 920 X-Cut

Lat 12836 N

Brg N 21'E Dip 0°

DSP 15,411 E

Elev 924

1

Log

0-27 100% GRANODIORITE

27-30 90% DARK GRAY DYKE contact at 27 @ 65°

30-53 90% GRANODIORITE

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ALBETA MINES LTD - Drill Hole Log

U-6

LOCATION 920 X- Cut

LAT -

BRG.

DIP

DEP -

ELEV -

From Log Log

28 1/2 - 9 1/2 Volcanics - fine to med grained massive
gray rock (tuff?) to 14 ft. Alluvial
from 100 - 28 1/2, possibly more fragmented.

Some stringers chert at 27 1/2
granitized bands at 50 to 53 ft
65 to 66.

31 - 36 9 1/2 Gneiss of Keweenaw - quartz to 32, thin bedded.
Cherty rock at 33, transition 55-65

6 - 35 10 Volcanics - fine grained, gray

58 - 39 10 Keweenaw -

37 - 40 10 Volcanics -

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ALBETA Mines Ltd - D. D. H. 1019

Vol 7

Location - Face 920 ft. (Sungite)
Bed Dip

Lat
Dip
Elev

1000 1000

109

0-16 1/2 42

WICKHAMITES - Dark grey fine grained
some alteration from H₂O

16 1/2 - 28 38 1/2

Calcite & EPIDOTE - some
unplanned reaction 23-24'

28 37 1/2 47

Ferruginous Porphyry

[Handwritten signature or initials]

Location of ...
L. ...
D. ...
L. ...

SCALE FT 0 50 100

- 9. ... with ...
- 12. ... with ...

13. ...

4. ...
...

Q
N

Specimens of some of the Chief & Long Creek (in Harold) list
Bag 100 - 100
Pit - 100
Culverts

to core
yes

42 The specimens probably fragments (collected by
likely appearance) approx. 50% of the
is attached to some extent by formation
of skarn (probably some garnet)
and some sections 9-11

- 12-15'
- 16-19'
- 20-24'
- 25-28'
- 29-32'
- 33-36'
- 37-40'

4/10
1/15

No. 1 Tunnel, 500m 525
Dip - 70°
Contact is fine grained
Lenses 20%
Elev

Section 70
Lenses
Savage Fr
Assay

0-6 36
Sinter: garnetite, epidote, minor
volcanics; locally some magnetite
& minor chlorite

37
Volcanics - fractured & altered

19 1/2
Contact - largely replaced by
magnetite & chlorite
2% Cu
Core recovery 80% - 90%
11.5' 1-17'

115-207 1/2
Mud & Carbonate volcanics
(fault?)

207-225 1/2
Volcanics - fractured,
shaly fragment

Location: No 1 Trench, 100 ft of surface

Lat- 12671.29

Bearing 527° 18' E Length 50

Dist 15689.01

Dip - 15° Contour 500. E. of site

Elev 1052.7

From the ...

5-12 Gneissite - 5% magnetite

13-18 Gneissite - 20% magnetite

19-21 20' Gneissite? Magnetite

above ... contains ... soft chlorite with magnetite & some fine grained chalcocite

Composition:

- 8" - soft, calc. mag, calc. chlorite
- 6" - gneissite - 60% magnetite
- 6" - gneissite, magnetite, chlorite
- 4" - fine grained gneissite, calc. chlorite
- 4" - soft chlorite, calc. magnetite, minor chalcocite
- 2" - coarse calc. mag
- 2" - calc. chlorite, magnetite, calc. chlorite
- 2" - gneissite & magnetite

21-22 20' Gneissite - 10% magnetite

23-24 5' Gneissite

24-27 10' Gneissite? ... fine grained gneissite

27-28 12' Gneissite - magnetite

28-29 14' Gneissite

29-30 20' Gneissite (partly ...)

Location No. 1 (W. 1/2) Tract Lat. 14.677 N
Long. 107.177 W

- 15. 100' x 100' Submerged Area
- 16. 100' x 100' Submerged Area
- 17. 100' x 100' Submerged Area
- 18. 100' x 100' Submerged Area
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100' x 100' Submerged Area



PHONE 4-1267

CABLE ADDRESS "ELDRICO"

FILE NO. 7096

DATE September 7, 1961.

To: Silver Standard Mines,
808 - 602 West Hastings,
Vancouver, B.C.
Att: Mr. Galleland

COAST ELDRIDGE
ENGINEERS & CHEMISTS LTD.
633 HORNBY ST. VANCOUVER, CANADA

that the following are the results of assays made by upon submitted ORE samples

MARKED	GOLD		SILVER		COPPER (Cu)		PER CENT.	VALUE PER TON	VALUE PER TON	TOTAL VALUE PER TON (2000 LBS)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT.	VALUE PER TON				
① 854		\$		\$	1.90	\$		\$	\$	
② 855					2.07					
③ 856					2.75					

Gold calculated at \$ _____ per ounce.
Silver calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.
Calculated at _____ cents per lb.

Note: Rejects retained one week.
Pulps retained three months.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer



PHONE LIBERTY 6-8111

CABLE ADDRESS "ELDRICO"

FILE NO. 8032

DATE November 6, 1961

To: **Alberta Mines Ltd. (N.P.L.)**
P.O. Box 610
Lake Curichan, B.C.

COAST ELDRIDGE
ENGINEERS & CHEMISTS LTD.
125 EAST 4TH AVE VANCOUVER 10 CANADA

that the following are the results of assays made by us upon submitted

Ore

samples.

MARKED	GOLD		SILVER		COPPER (Cu)		PER CENT	VALUE PER TON	PER CENT	VALUE PER TON	TOTAL VALUE PER TON (2000 LBS)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT	VALUE PER TON					
#1 width 10"		\$		\$	4.04	\$		\$		\$	
#2 " 8"					1.68						
#3 " 6"					1.30						
#4 " 13"					3.07						
#5 " 9"					1.88						
Composite #1-5	Trace		0.4								

SM-MP-961

Gold calculated at \$ _____ per ounce

Calculated at _____ cents per lb.

Silver calculated at \$ _____ per ounce

Calculated at _____ cents per lb.

Note: Rejects retained one week.
Pulps retained three months.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer



PHONE CITY 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO. 9063

DATE January 16, 1962

To: Alberta Mines Ltd.,
Box 610,
Lake Cowichan, B.C.

COAST ELDRIDGE
ENGINEERS & CHEMISTS LTD.
125 EAST 4TH AVE VANCOUVER 10, CANADA

DRILL CORE

that the following are the results of assay made by us upon submitted

samples

MARKED	GOLD		SILVER		COPPER (Cu)		PER CENT	VALUE PER TON	PER CENT	VALUE PER TON	TOTAL VALUE PER TON (2000 LBS)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT	VALUE PER TON					
1 DRH 9-1 104-105.5' 1.5'					1.63						
2 DRH 9-2 34.6-38' 3.5'					10.08						
3 DRH 9-2 38'-42' 4'					0.43						
as Silver Standard Mines											

Gold calculated at \$ _____ per ounce
Silver calculated at \$ _____ per ounce

Calculated at _____ cents per lb
Calculated at _____ cents per lb

Jordan Smith

Note: Repts retained one week.
Pulps retained three months.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer



PHONE TWENTY 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO. 9279

DATE January 24, 1962

To:

Alberta Mines Ltd.,

Box 610,

Lake Cowichan, B.C.

COAST ELDRIDGE**ENGINEERS & CHEMISTS LTD.**

125 EAST 8TH AVE. VANCOUVER 10, CANADA

DRILL CORE

*that the following are the results of assays made by us upon submitted**samples*

MARKED	GOLD		SILVER		COPPER (Cu)				TOTAL VALUE	
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT	VALUE PER TON	PER CENT	VALUE PER TON	VALUE PER TON	PER TON (1000 LBS.)
DDH 85 Sludge #13 25-29.5'		\$		\$	8.32	\$		\$		\$
DDH " " #14 29.5-34'					4.33					

SM-MP-501

Gold calculated at \$ per ounce

Calculated at cents per lb

Silver calculated at \$ per ounce

Calculated at cents per lb

Note: Rejects retained one week.
 Pulps retained three months.
 Pulps and rejects may be stored for a
 maximum of one year by special
 arrangement.

Proven & Assayed



PHONE 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO. 9258

DATE January 24, 1962

To: **Alberta Mines Ltd.,**
 Box 610,
 Lake Cowichan, B.C.

Certificate of Assay
COAST ELDRIDGE
 ENGINEERS & CHEMISTS LTD.
 125 EAST 4TH AVE VANCOUVER 10 CANADA

DRILL CORE *samples*

The following are the results of assays made by us upon submitted

MARKED	GOLD		SILVER		COPPER (Cu)		TOTAL IRON (Fe)		TOTAL VALUE	
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT	VALUE PER TON	PER CENT	VALUE PER TON	VALUE PER TON	PER TON (2000 LBS.)
DDH P1 0-9'		\$		\$	2.72	\$		\$		\$
DDH P1 9-22'					3.35		61.44			
DDH P2 0-11'					3.10		30.46			
DDH S3 #4 43.5-55.75'					0.48					
DDH S3 #5 55.75-59.5'					5.80					
DDH S4 #6 6-27.5'					0.30		31.29			
DDH S4 #7 27.5-34.5'					15.20					
DDH S4 Sludge #8 28-33'					12.27					
DDH S4 Sludge #9 34.5'-47'					0.25					
Composite #5 & #7 & DDHS2 54.6 - 58'	TRACE		0.5							

EM-MP-261

Gold calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Silver calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Note: Rejects retained one week.
 Pulps retained three months.
 Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer

PHONE **6-4111**CABLE ADDRESS **"ELDRICO"**FILE NO. **9446**DATE **February 12, 1962**

To:

Albert Mines Ltd.,**P.O. Box 610,****Lake Cowichan, B.C.****COAST ELDRIDGE****ENGINEERS & CHEMISTS LTD.****125 EAST 4TH AVE. VANCOUVER 10, CANADA***that the following are the results of assays made by us upon submitted***DRILL CORE***samples*

MARKED	GOLD		SILVER		COPPER (Cu)		PER CENT	VALUE PER TON	PER CENT	VALUE PER TON	TOTAL VALUE PER TON (2000 LBS)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT	VALUE PER TON					
MP 5 013 8'-19.5'		\$		\$	1.39			\$		\$	
MP 7 016 27'-32.5'					2.32						

SM-MP-881

Gold calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Silver calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Note: Rejects retained one week.
 Pulps retained three months.
 Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer



PHONE 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO. 9476

DATE February 13, 1962

To:

Albeta Mines Ltd.,

Box 610,

Lake Cowichan, B.C.

COAST ELDRIDGE

ENGINEERS & CHEMISTS LTD.

125 EAST 4TH AVE. VANCOUVER 10, CANADA

That the following are the results of assays made by us upon submitted

DRILL CORE

samples

MARKED	GOLD		SILVER		COPPER (Cu)		TOTAL IRON (Fe)		TOTAL VALUE	
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT	VALUE PER TON	PER CENT	VALUE PER TON	VALUE PER TON	PER TON (2000 LBS)
#17 107.5'-124'		\$		\$	2.56	\$	33.73	\$	\$	\$

88-27-001

Gold calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Silver calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Note: Rejects retained one week.
 Pulps retained three months.
 Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer



PHONE 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO. 9642

DATE March 1, 1962

To:

Albion Mines Ltd.,

Box 610,

Lake Cowichan, B.C.

COAST ELDRIDGE
ENGINEERS & CHEMISTS LTD.
125 EAST 4TH AVE VANCOUVER 10, CANADA

that the following are the results of assays made by us upon submitter

BILL ONE

samples

MARKED	GOLD		SILVER		COPPER (Cu)		PER CENT	VALUE PER TON	PER CENT	VALUE PER TON	TOTAL VALUE PER TON (2000 LBS.)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT	VALUE PER TON					
BOX 8-9 #18 12.5-21'		\$		\$	2.44	\$		\$		\$	
8-10 #19 38-53'					2.36						
8-12 #20 19-31.5'					1.96						
8-12 #21 41-47'					6.78						

OH-MP-661

Gold calculated at \$ _____ per ounce

Calculated at _____ cents per lb.

Silver calculated at \$ _____ per ounce

Calculated at _____ cents per lb.

Note: Rejects retained one week.
Pulps retained three months.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer



PHONE: T Y 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO. 60

DATE March 13, 1962

To: **Albert Hines,**
Box 610,
Lake Cowichan, B.C.

COAST ELDRIDGE

ENGINEERS & CHEMISTS LTD.

125 EAST 4TH AVE. VANCOUVER 10 CANADA

that the following are the results of assays made by us upon submitted

MILL CORE

samples

MARKED	GOLD		SILVER		COPPER (Cu)		PER CENT	VALUE PER TON	PER CENT	VALUE PER TON	TOTAL VALUE PER TON (2000 LBS.)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT	VALUE PER TON					
BOX 8-12 622 117-127.5'		\$		\$	0.45			\$		\$	
" 623 126-167'					4.23						
" 624 214.5-218					3.29						
" 625 222.5-225.5'					2.48						
" 626 240-247'					1.57						

EN-47-661

Gold calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Silver calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Note: Rejects retained one week.
Pulps retained three months.
Pulps and rejects may be tested for a maximum of one year by special arrangement.

Provincial Analyst



PHONE NUMBER CITY 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO. 400

DATE April 12, 1962

To:

Alberta Mines Ltd. (U.P.L.)

P. O. Box 610

Lethbridge, S. C.

COAST ELDRIDGE

ENGINEERS & CHEMISTS LTD.

125 EAST 4TH AVE. VANCOUVER 10, CANADA

that the following are the results of assays made by us upon submitted

BULL CORE

samples

MARKED	GOLD		SILVER		Copper (Cu)		PER CENT	VALUE PER TON	PER CENT	VALUE PER TON	TOTAL VALUE PER TON (2000 LBS.)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT	VALUE PER TON					
MARK 17 617 35-38'		\$		\$	1.75			\$		\$	
MARK 65-71.5'					1.98						
MARK 12 625 29.5-39.5'					2.73						

20-MP-001

Gold calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Silver calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Note: Rejects retained one week.
 Pulps retained three months.
 Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer



PHONE TY 6-4111

CABLE ADDRESS "ELDRICO"

485

FILE NO

DATE April 13, 1962

To: **Abco Mines Ltd.**
P.O. Box 618
Lake Cowichan, B. C.

Certificate of Assay
COAST ELDRIDGE
ENGINEERS & CHEMISTS LTD.
125 EAST 4TH AVE. VANCOUVER 10, CANADA

that the following are the results of assays made by upon submitted

WILL COME

samples

MARKED	GOLD		SILVER		Copper (Cu)		PER CENT.	VALUE PER TON		VALUE PER TON	TOTAL VALUE PER TON (1000 LBS.)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT	VALUE PER TON					
SM 2 - 13 #30 174-181°		\$		\$	2.06			\$		\$	\$

Gold calculated at \$ _____ per ounce

Calculated at _____ cents per lb

Silver calculated at \$ _____ per ounce

Calculated at _____ cents per lb

Note: Rejects retained one week.
Pulps retained three months.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer



PHONE CITY 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO. 763

DATE May 9, 1962

To:

Albion Mines Ltd.

P.O. Box 610

Leah Cowichan, B. C.

COAST ELDRIDGE

ENGINEERS & CHEMISTS LTD.

125 EAST 4TH AVE. VANCOUVER 10 CANADA.

that the following are the results of assays made by us upon submitted

DULL ORES

samples

MARKED	GOLD		SILVER		Copper (Cu)		PER CENT	VALUE PER TON	VALUE PER TON	TOTAL VALUE PER TON (2000 LBS.)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT	VALUE PER TON				
SEN 9-20 #31 176.5-177°		\$		\$	1.39	\$		\$	\$	\$
SEN 9-20 #32 177-183.5°					1.61					

530-MP-561

Gold calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Silver calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Note: Rejects retained one week.
Pulps retained three months.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer



PHONE CITY 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO. 770

DATE May 9, 1962

To:

Albert Mines Ltd.

P.O. Box 610

Lake Cowichan, B. C.

COAST ELDRIDGE

ENGINEERS & CHEMISTS LTD.

125 EAST 4TH AVE. VANCOUVER 10, CANADA

that the following are the results of assays made by us upon submitted

MILL CORE

samples

MARKED	GOLD		SILVER		Copper, (Cu)		PER CENT.	VALUE PER TON	PER CENT.	VALUE PER TON	TOTAL VALUE PER TON (2000 LBS.)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT.	VALUE PER TON					
<p>88 - 6 - 21 933</p> <p>23 - 37'</p>		\$		\$	6.19		\$		\$	\$	

EM-MP-551

Gold calculated at \$ _____ per ounce

Calculated at _____ cents per lb.

Silver calculated at \$ _____ per ounce

Calculated at _____ cents per lb.

Note: Rejects retained one week.
 Pulps retained three months.
 Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer



PHONE: TY 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO. 836

DATE May 11, 1962

To:

Albert Mines Ltd.

P.O. Box 610

Lake Cowichan, B. C.

COAST ELDRIDGE

ENGINEERS & CHEMISTS LTD.

125 EAST 4TH AVE. VANCOUVER 10, CANADA

that the following are the results of assays made by us upon submitted

samples

MARKED	GOLD		SILVER		Copper (Cu)		PER CENT	VALUE PER TON	PER CENT	VALUE PER TON	TOTAL VALUE PER TON (2000 LBS.)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT	VALUE PER TON					
634 @ 21 201.5-204°		\$		\$	0.47			\$		\$	\$
635 @ 21 204-202.5°					4.30						

Gold calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Silver calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Note: Rejects retained one week.
Pulps retained three months.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer



PHONE CITY 6-4111

CABLE ADDRESS "ELDRICO"

FILE NO 1847

DATE July 26, 1962

To:

Albeta Minas Ltd. (N.P.L.)

P. O. Box 610

Lake Cowichan, B. C.

Attention: Mr. George E. Apps

COAST ELDRIDGE

ENGINEERS & CHEMISTS LTD.
125 EAST 4TH AVE. VANCOUVER 10, CANADA

ORE & DRILL CORE

that the following are the results of assays made by us upon submitted

samples

MARKED	GOLD		SILVER		Copper (Cu)		PER CENT.	VALUE PER TON	PER CENT.	VALUE PER TON	TOTAL VALUE PER TON (2000 LBS.)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT.	VALUE PER TON					
M-1 950 value, 17 cars Ore		\$		\$	1.58	\$		\$		\$	\$
DDH; U-1 # 36 114' - 119 1/2' Drill Core					1.31						
DDH; U-3, # 37 (31'-34')					1.06						
DDH; U-3 # 38 (45'-52")					1.84						

Gold calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Silver calculated at \$ _____ per ounce.

Calculated at _____ cents per lb.

Note: Rejects retained one week.
Pulps retained three months.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer

SHEET NO. _____

J. R. WILLIAMS & SON LTD.

MUTUAL 5-5821

FILE NO. _____

PROVINCIAL ASSAYERS

580 NELSON STREET

File #200113

VANCOUVER 2, B.C. August 16th 1962

RESULTS of Assays made on samples of ore submitted by: Albiter Mines Ltd.

MARK

Copper
%

#39-DDH U-3 45-52

1.95

Assays made by:

J. Moore

J. R. WILLIAMS & SON LTD.

PROVINCIAL ASSAYERS AND CHEMISTS

Office and Laboratory:

580 Nelson Street, Vancouver 2, B. C.

I Hereby Certify that the following are the results of assays made by me upon samples of ORE
herein described and received from Messrs. Alpha Mines Limited November 9th 1962

MARKED	GOLD		SILVER		Copper			
	Ounces Per Ton	Value Per Ton	Ounces Per Ton	Value Per Ton	Per Cent.	Value Per Ton	Per Cent.	Value Per Ton
M2 Oct. 16 & 17 13 cars Alpha #3								1.15
M3 Oct. 18 as above								1.65
M4 Oct. 19 8 cars Alpha #3								1.38

Gold calculated at \$ _____ per ounce.

Silver calculated at _____ cents per ounce.

NOTE—Pulps of Samples retained 2 months from date of Receipt.
Rejects 1 week unless otherwise instructed.

Calculated at _____ cents per lb.

Calculated at _____ cents per lb.

Calculated at _____ cents per lb.

Provincial Assayer.

FILE NO. _____
File #214037/049PROVINCIAL ASSAYERS
560 NELSON STREETVANCOUVER 2, B. C. January 14th, 1963RESULTS of Assays made on samples of ore submitted by: Albeta Mines Limited

MARK	Gold Ozs.	Silver Ozs.	Copper %	Iron %
#101			1.50	
#102			1.90	
#103			1.20	
#104			1.10	
#105 Comp. Sample #101/104	0.005	0.50		30.40
#106			0.65	
#107			1.15	
#108			1.37	
#109			1.10	
#110			1.90	
#111			0.85	
#112			1.92	
Comp. Sample #113 - #106/112	Trace	0.40		22.20

Assays made by



FILE NO. File #214971/973

PROVINCIAL ASSAYERS

580 NELSON STREET

VANCOUVER 2, B.C. March 1st 1963

RESULTS of Assays made on samples of ore submitted by: **Albeta Mines Limited**

MARK	Gold Ozs.	Silver Ozs.	Copper %
119			2.00 5.0 10.0
120			1.80 5.5' 9.9
121			1.80 5.5' 9.9
122			2.20 5.0' 11.0
123			2.00 3.7' 7.4
124			1.55 2.5' 3.75
Comp #119/124 - #125	Trace	trace	27.2 $\frac{51.95}{27.2} = 1.91\frac{1}{4}/45$
126			1.30
127			1.15

Assays made by:

J. R. Williams

March 28th 1963

VANCOUVER 2. B. C.

RESULTS of Assays made on samples of ore submitted by: Albena Mines Limited

MARK	Gold Ozs.	Silver Ozs.	Copper %
128			1.65
129			1.40
130			3.80
131			2.80
132			2.47
133			1.55
134			3.25
135 Compo. - 130-134	Trace	0.20	
136			1.57

Assays made by _____

VANCOUVER 2, B. C. July 8th 1963

RESULTS of Assays made on samples of ore submitted by: **Albeta Mines Limited**

MARK	Copper %
137	1.98
138	1.40
139	2.03
140	12.90
141	19.05

Assays made by: _____

To:

Alberta Mines Ltd.,

Lake Cowichan, B. C.



PHONE: CITY 6-4111

CABLE ADDRESS: ELDRIDGE

FILE NO. **A-3-1,4-63**
(9113)

DATE **November 25th, 1963**

COAST ELDRIDGE

ENGINEERS & CHEMISTS LTD.

125 EAST 4TH AVE. VANCOUVER 10, CANADA

that the following are the results of assays made by us upon submitted

Ore

samples

MARKED	GOLD		SILVER		Copper (Cu)			TOTAL VALUE PER TON (2000 LBS.)
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	VALUE PER TON	PER CENT.	VALUE PER TON	PER CENT.	
291					7.81			
292					3.28			
293					4.22			
304					4.14			
295					3.55			
306					6.97			
307					3.49			

Gold calculated at \$..... per ounce.

Calculated at cents per lb.

Silver calculated at \$..... per ounce.

Calculated at cents per lb.

Note: Rejects retained one week.
Pulps retained three months.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Provincial Assayer