

AMARK EXPLORATIONS LTD

ASSESSMENT REPORT

GEOLOGICAL - DIAMOND DRILLING SURVEYS

ALCO MINERAL CLAIMS GROUP

MAMQUAM RIVER - SQUAMISH AREA

VANCOUVER MINING DIVISION

BRITISH COLUMBIA

Latitude: 49° 40'³ North, Longitude: 122° 55' West
Geological Survey By: William J. Weymark P. Eng.
Diamond Drilling Tests, Nick Dootoff Drillers, Surry
Assaysers:

Chemex Labs Ltd: North Vancouver, B. C.
Can Test Ltd. Vancouver, British Columbia

Interpretation By: William J. Weymark P. Eng.

15 December 1979

WEYMARK ENGINEERING LTD.
CONSULTING ENGINEERS
WEST VANCOUVER, B.C.



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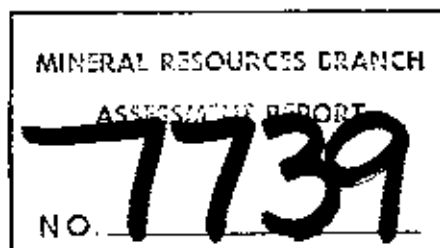
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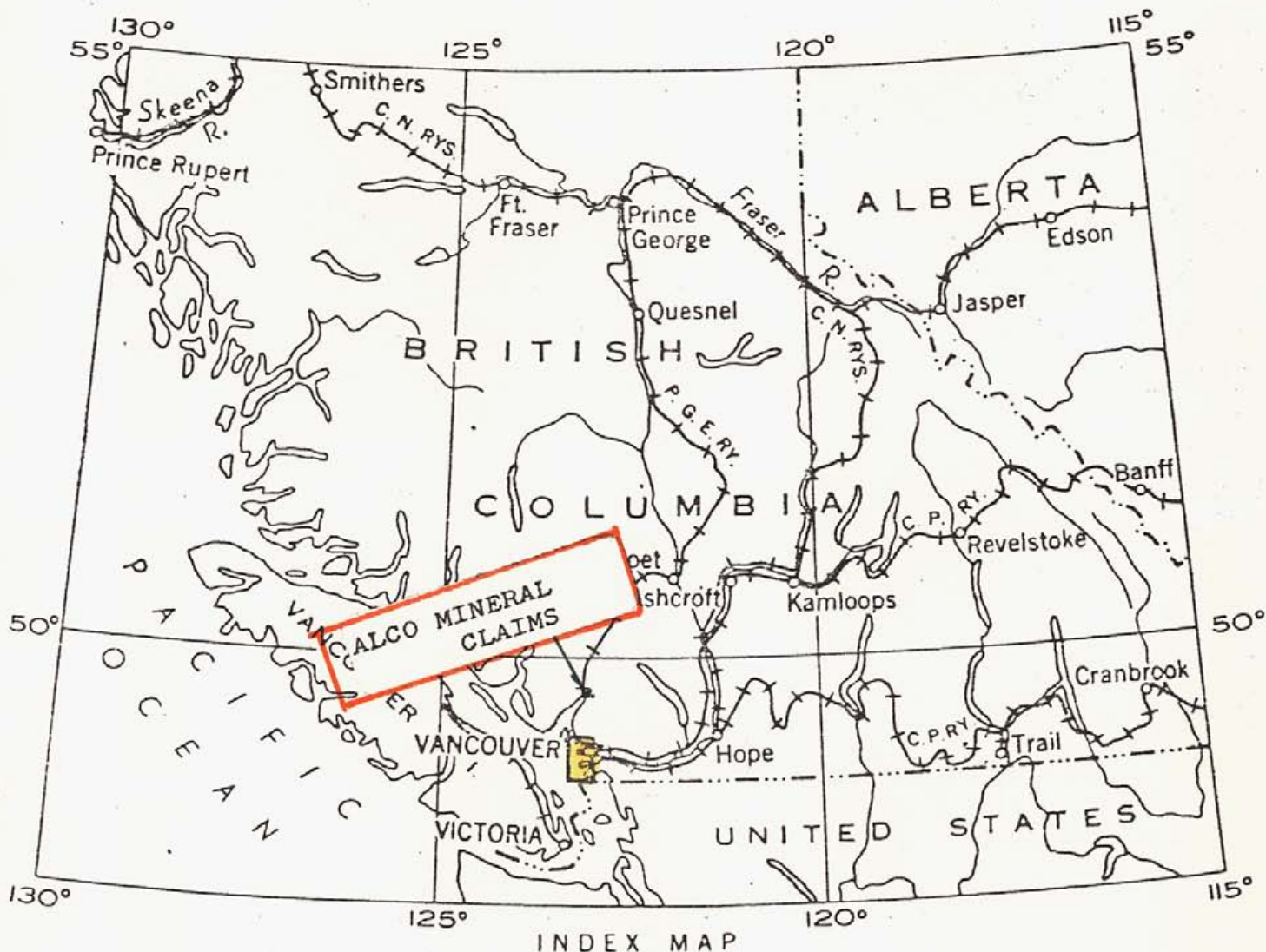
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INDEX MAP

LOCATION

ALCO MINERAL CLAIMS GROUP
 VANCOUVER MINING DIVISION
 MAMQUAM RIVER AREA, SQUAMISH

BRITISH COLUMBIA

2.0 Access and Location:

Access to the claims is easy via Highway No: 99, Vancouver to Squamish and then over a heavy-load classified logging road, - following for the most part, the Mamquam River - a distance of about eleven miles from Squamish, onto the claims area. This road is open year-round except during heavy snowfall and fire-peril periods. Permission has to be obtained from the foresters - MacMillan Bloedel Ltd., for use of the roads - logging trucks operate on a radio block control basis. Several main and branch logging roads transect the claims area.

The geographic reference is 49° 40' North and 123° 55' West. The claims are within the Vancouver Mining Division with Registry Office in Vancouver and the Vancouver Land Recording District with Registry Office in Vancouver. The claims underlay Timber Licenses Nos: 3064 - 68; 3284 - 85 and adjacents.

The claims area is mostly clear-cut with residual timber patches. Several of the parcels are replanted with speciality-test timber varieties. Second growth timber has taken over in areas. In the upper reaches, there are many bed-rock outcrops. Overburden ranges from a few feet to ten or more feet along the Manquam River.

3.0 Geology:

Geological References are Map 42 - 1963 and Map 1151A, Geology Pitt Lake - 1965 accompanying Memoir 335, Vancouver North, Coquitlam and Pitt Lake Map-Areas, J. A. Reddick, Geological Survey of Canada, 1965, See Figure: - 3

As described in the Noranda REport No 4917, the Geology may be described as:-

" the geology of the area consists of dykes and irregular intrusives of granite (granodiorite and quartz monzonite) rock intruded into an andesite - diorite - quartz-diorite complex. The area of intrusion is surrounded by a propylitic halo which has a smaller zone within it of quartz and K feldspar alteration. Pyrite, chalcopyrite malachite, and minor molybdenite and bornite occur mainly along fractures and in some quartz veins within the inner alteration zone. Pyrite is in the Propylitic zone."

Base Formations are Plutonic Rocks of Mezozoic - Cretaceous and earlier periods, - also (Cenozoic) being Leucocratic - granites, grano-diorites, diorites, granulites and, in places, migmatites. Overlying these plutonic rocks are tuffs, andesites, sandstones-greywacke, basalts of the Gambier Group. Basalt and Andesitic dykes intrude these rock masses.

There are several North-South trending faults, shear and fracture zones within the area and, in general, these provide the courses for many streams and creeks on the property. The mafic content of the rock varies from mass to mass and within and near these fracture-shear zones. Hornblende, Biotite and Chlorites alteration composition varies from 90 - 20% and quartz feldspar from 20 - 90%.

The metallic minerals of interest are Copper and Molybdenum, - sulphides and oxides. Pyrite is generally associated with these metallics and also, paragenetically and syngenetically sequences.

Field geological mapping was done on a scale of 400 Feet = one Inch, using the same grid layout as for the Geochemical and Geo-Physical Surveys. The outcrop map is given on Figure - 4.

The areas of interest are the quartz-diorite and K feldspar alteration zones within the base diorite - granodiorite masses. Further detailed investigations are required to define the boundaries and areas of these masses. Figure - 5 illustrates the geochemical - geophysical anomalous zones.

4 - Diamond Drill Tests

Twenty EXT diamond-drill holes were bored into the accessible outcrops of the copper-molybdenum anomalous zones, with a total footage of 642 feet. Because of the sheared, fractured and weathered state of the rock formations, only short footages were obtained, - the longest hole being 83 Feet (C-7) and the shortest - eight feet (B-7). A larger and heavier drill will have to be used with other techniques, to overcome the poor drillability characteristics of the rock formations.

Eight drill holes were bored on C-Road and twelve on B.-Road. The locations are shown on Figure: 6. Sectional locations are shown on Figure - 7

Samples were taken by filtering the return water on a time five foot basis. Also of the sludge on a parted-split basis and of recovered core. Core recovery was poor and drilling was mainly done by Bull Nose bits. The logs as constructed are given in Annex - B

Samples were assayed chemically for both Copper and Molybdenum. The results are given on the reverse side of the Logs and Annex - C.

Results:

Encouraging results were obtained in both Copper and Molybdenum from the diamond drilling sampling, viz:-

	Hole	Average		Highest Value/5-Feet	
		Cu%	Mo%		
<u>C - Road</u>	C-1	0.09	0.01	0.17%Cu	0.01 Mo
	C-2	0.06	0.01	0.09	0.01
	C-3	0.08	0.01	0.12	0.01
	C-4	0.07	0.01	0.08	0.01
	C-5	0.02	0.01	0.04	0.01
	C-6	0.04	0.01	0.05	0.01
	C-7	0.04	0.01	0.13	0.01
	C-8	0.12	0.01	0.18	0.01
<u>B - Road</u>	B-4	0.13	0.01	0.19	0.01
	B-5	0.06	0.01	0.11	0.01
	B-6	0.19	0.01	0.33	0.01
	B-7	0.46	0.01	0.46	0.01
	B-8	0.06	0.01	0.21	0.01
	B-9	0.02	0.01	0.04	0.01
	B-10	0.09	0.01	0.14	0.01
	B-11	0.13	0.01	0.25	0.01

Assessment Report, Geological - Diamond Drill Surveys, Cont'd

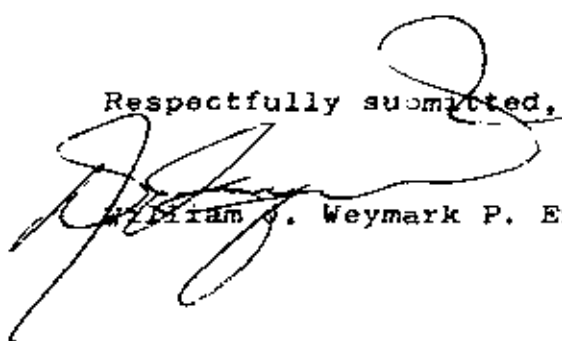
<u>Hole</u>	<u>Average</u>		<u>Highest Value/5-Ft</u>	
	<u>Cu%</u>	<u>Mo%</u>		
B-12	0.04	0.01	0.06%Cu	0.01%Mo
B-13	0.13	0.03	0.30	0.16
B-14	0.16	0.02	0.18	0.06
B-15	0.43	0.01	1.20	0.01

5.0 Recommendations:

On the basis of the results obtained from these Geological and Diamond Drilling Test surveys referenced to in this report, it is considered that further tests and field investigation-al surveys are warranted. In particular, future diamond drilling should be carried-out with larger and heavier diamond drilling equipment so that depth characteristics of the copper - molybdenum mineral zones may be tested. Bulk sampling should done to test mineralogical and metallurgical characteristics of the mineral bearing rock formations.

Respectfully submitted,

15 December 1979

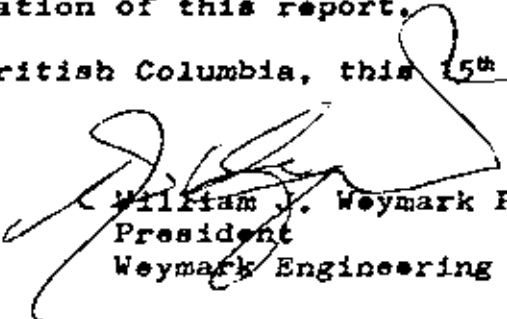

William J. Weymark P. Eng.

CERTIFICATE

I, William James Weymark, P. Eng., Consulting Engineer, President of Weymark Engineering Ltd., of the District of West Vancouver, of the Province of British Columbia, hereby certify that:

1. I am a graduate of Mining Engineering of Queen's University, Kingston, Ontario, B. Sc., 1940 and have been practicing my profession for thirty-five years.
2. I am a member of the Association of Professional Engineers of the Province of British Columbia, the Consulting Engineers Division of the Association of Professional Engineers of British Columbia, The Consulting Engineers of Canada.
3. I am a practicing Consulting Engineer and reside at 3310 Westmount Road, West Vancouver, British Columbia.
4. I am a member of the Canadian Institute of Mining and Metallurgy and of the American Institute of Mining, Metallurgical and Petroleum Engineers, and of the American Geophysical Union.
5. I have no direct or indirect interest whatsoever in Amark Explorations Ltd., or in the Alco Mineral Claims, nor do I expect any interest, direct or indirect in this organization or property or any affiliate or any security of the company.
6. The findings of the accompanying report are based on my personal examination of the Alco Mineral Property in 1978 and 1979 and participation in the field surveys relating to this report as well as review of all available information relating to the property and preparation of this report.

DATED at West Vancouver, British Columbia, this 15th Day of December 1979.



William J. Weymark P. Eng.
President
Weymark Engineering Ltd.

APPENDICES

VANCOUVER NORTH, COQUITLAM and PITT LAKE
MAP AREA - MEMOIR. 335, Page 58 - 61

GEOLOGY: MAMQUAM RIVER AREA

Indian River Pendant

The Indian River pendant is about 15 miles long, occupying the upper half of Indian River Valley and the lower half of Skookum Creek valley. About half the pendant, the central part, lies west of Pitt Lake map-area, and much of the north end is covered by the Garibaldi volcanic rocks, especially by the Ring Creek lava flow. Most of the Indian River pendant was examined by James (1929). He placed the numerous rock types present in this area in the Lower Goat Mountain Formation (in the middle of the Britannia Group). These rocks are not represented in the vicinity of Britannia Mine, and are separated from the nearby Middle Goat Mountain Formation (James, 1929) by a narrow dyke-like body of hornblende diorite. Nonetheless it is probable that some of the rocks in the Indian River pendant are equivalent to parts of the Middle Goat Mountain Formation.

Indian River valley has steep walls and is heavily wooded. Creek beds and lichen-covered cliffs provide the principal outcrops but the creeks are deeply incised in narrow canyons and interrupted by numerous impassable falls, making them less favourable for geological study than might be expected.

grains (subrounded and angular) of medium oligoclase, all of which are kaolinized. About half of them are about $\frac{1}{2}$ mm in diameter and the rest are much finer grained. Mixed with finer grained material is a sparse, pale green, dissemination of chlorite. Commonly larger than the plagioclase grains are crystals of strongly pleochroic epidote which make up about 15 per cent of the rock. These also appear to be primary clastic grains rather than alterations of the plagioclase. Little recrystallization is evident.

Pseudo-porphyrific arkose. This rock is greenish grey and looks megascopically like a feldspar porphyry. In thin section the larger plagioclase crystals, which give the rock its porphyritic appearance, are seen to be merely the larger grains of a more or less seriate texture. These larger grains are chiefly albite and constitute about 10 per cent of the rock. The finer grained material making up most of the rock is composed chiefly of recrystallized oligoclase and a somewhat lesser amount of quartz. The unrecrystallized quartz crystals have a rounded, clastic appearance. Epidote forms veins and patches, and chlorite is scattered throughout. The texture is complicated by considerable amounts of myrmekitic material involving quartz and albite.

Both porphyries and sedimentary rocks are cut by dykes that do not seem to be directly related to the porphyries. These include light grey hornblende-hypersthene lamprophyres and dark brown basalt. The lamprophyre is a dark grey weathering rock about one quarter of which is made up of phenocrysts. These are chiefly sodic labradorite but include also green hornblende and a pleochroic hypersthene. The basalt is composed mostly of a calcic labradorite with 5 per cent olivine. Most of the olivine has been converted to a greenish brown serpentinous material. The basalt contains a few small plagioclase phenocrysts, some of which have been pseudomorphically replaced by calcite.

2. Part South of Roy Creek

In the vicinity of Roy Creek the dominant rock is a grey-green andesitic porphyry. The plagioclase phenocrysts are altered to aggregates of albite, sericite, and quartz and the mafic minerals, both in the matrix and in phenocrysts, have been altered to chlorite. Locally, where silicification is unusually intense, the phenocrysts are replaced by clear quartz aggregates preserving to an amazing degree the outlines of the original phenocrysts.

About half a mile south of the confluence of Roy Creek and Indian River, the latter stream is sharply offset to the east, controlled by a transverse shear zone. The shear zone is about 40 feet wide, locally pyritized, and is a good illustration of how the Indian River porphyries are affected by shearing. Unsheared slices in the shear zone consist of light grey-green, rusty porphyry, which, in thin section, is seen to be composed of a trachytic-textured matrix of very fine grained plagioclase, generally kaolinized and sericitized, some patches (1 mm) of introduced quartz granules, and phenocrysts (1 mm) of plagioclase, highly altered especially to muscovite. The mafic minerals are restricted to green and brown varieties of chlorite forming very small, ragged interstitial patches and wisps. The rock, although not sheared, has evidently undergone the same hydrothermal alteration

For descriptive purposes the pendant may be divided into five sections, from north to south.

1. *Northeast Part*

The northeast section crosses Mamquam River, just east of Skookum Creek. This part of the pendant is bordered on the east by dioritic plutonic rocks and overlain on the northwest by the Ring Creek lava flow. This is a heavily wooded area and outcrops are not very plentiful. The principal rock is a dark weathering, grey-green, metamorphosed feldspar porphyry. This is probably the most common of the many puzzling rock types in the Indian River pendant that have been called greenstones by prospectors and geologists because of their enigmatic greenish appearance in hand specimens. Yet, when seen under the microscope, the various greenstones have little in common except their colour. The least altered of the feldspar porphyries are composed primarily of slightly kaolinized, very fine grained, andesine laths forming a trachytic texture, which, although fairly normal, is interrupted here and there by granular crystals of introduced quartz and recrystallized plagioclase. Scattered throughout this matrix are medium-grained plagioclase (generally medium to calcic andesines) phenocrysts which usually make up about 10 per cent of the rock, but may range from 3 to 25 per cent. Even in the least altered of these rocks nothing remains of the original mafic material. It is represented in part by chlorite but most of it seems to have been leached out of the rock. From the data available, however, it cannot be proved that some of these rocks, which now contain little mafic material, were not originally anorthositic. Although the external appearance of the porphyries is usually not much changed by metamorphism, their microscopic appearance is radically altered. This is characteristic of these rocks when subjected to low and medium grades of metamorphism. It arises chiefly from the tendency of the phenocrysts to retain their form, even though the texture of the matrix is entirely obliterated by recrystallization and metasomatism. The metamorphism of the phenocrysts indeed follows a delayed and different route from that of the matrix.

Normally the first stage in the alteration of a porphyry is the kaolinization of the matrix plagioclase and conversion of the matrix mafic minerals (usually hornblende) to chlorite. This causes a change in megascopic colour from dark grey to greenish grey, a colour that persists until the rock reaches a grade of metamorphism high enough to destroy the chlorite. If the temperature remains low, kaolinization is intense and the matrix becomes nearly opaque under the microscope. This stage must usually be reached before the process begins to affect the phenocrysts. Typical of porphyries at this stage are whitish weathering rocks having clear or only slightly clouded plagioclase phenocrysts in a nearly opaque matrix.

Accompanying kaolinization, but not conspicuous until the later stages, is the crystallization of quartz and albite. These minerals are interstitial at first but become prominent with growth. With further alteration the whole matrix is involved in recrystallization, which produces at first very irregular, amoeboid-shaped crystals and later the more regular equidimensional crystals typical of the granulites. The

onset of extensive recrystallization rapidly clears the matrix of clay minerals probably by incorporating their components into the new plagioclase. With increasing grades of metamorphism, the stable plagioclase becomes more calcic, reaching in the most highly metamorphosed porphyries of the Indian River pendant, a calcic oligoclase.

The mafic minerals in the matrix seem to play only a minor role in the alteration of the porphyries. The solutions that cause kaolinization seem to leach most of the mafic minerals from the rock. Those components that are not carried away combine as chlorite, some of which forms patches and some interstitial disseminations. When the matrix felsic components have attained a granulitic texture, much of the chlorite has been changed to an olive-green biotite in tiny irregular, commonly shredded crystals and in patches of decussate crystals.

The feldspar phenocrysts seem to behave almost independently from the rest of the rock. Kaolinization is slow to begin and generally does not reach its fullest development until the matrix has largely cleared itself by recrystallization, yet where albization in the matrix is sufficiently intense, the phenocrysts also succumb. Unlike the matrix plagioclase, the phenocrysts are replaced pseudomorphically by albite, even to the extent of preserving the original, broad-lamellae twinning. In certain instances, the phenocrysts are replaced, again pseudomorphically, by muscovite, calcite, or epidote, or a combination of these minerals with albite. Striking though these changes are under the microscope, they make little difference in the general appearance of the hand specimen.

Phenocrysts of mafic minerals were apparently rare in the original porphyries of the Indian River pendant, but a few seem to have existed. They have been replaced by pseudomorphic patches of chlorite, which in some instances have progressed to clots of decussate biotite crystals that still preserve the outline of the former mafic phenocrysts.

As a result of the different ways and rates at which the various components of the porphyries react to low grade metamorphism, some peculiar rocks are produced. Some for example have a matrix opaque with kaolin and contain clear phenocrysts, and some have oligoclase matrix feldspar and albite phenocrysts. These rocks are the common porphyritic "greenstone" in the Indian River pendant.

Although the porphyries in their various stages of alteration are the most abundant rocks in the northeast section of the pendant, some arkosic rocks are interbedded with them.

Normal arkose. This is a grey-green, coarse-grained, granular, rather soft rock. A thin section of it is semi-opaque because of a dense overall alteration to kaolin and chlorite. The rock consists primarily of sodic plagioclase grains ($\frac{1}{2}$ to 1 mm) in an extremely fine grained argillaceous cement. Some epidote and muscovite are also present. Although highly altered, the rock has a clastic appearance. The larger grains of plagioclase are subrounded. No quartz was detected.

Epidote arkose. This is a medium grey, fine-grained rock with, as seen under the microscope, a fairly well-sorted, clastic texture. Most of the rock consists of

vicinity is commonly moss-covered. Owing to chloritization of some of the hornblende, the whole rock has a greenish cast. Inclusions of dark green granulite are common. Both to the north and to the south the quartz diorite grades into the h-granodiorite area (90). The southern contact of the small pendant in this area is best exposed on the west side of the ridge separating Buntzen Lake and Indian Arm. The pendant there consists mostly of faintly banded granulite. Some of the bands are isolated in the plutonic rock some distance away from the principal contact. These blocks are arranged parallel with the foliation within the pendant. The plutonic rock exposed nearest the contact is very rich in hornblende and very poor in quartz. Much of it is pink owing to hydrothermal alteration. Numerous quartz and calcite veinlets cut the pendant near the contact with the plutonic rocks. The actual contact is not exposed.

(39) Between Indian River and Mamquam River (PL)

This body lies between Mamquam River and the Indian River pendant. Little information is available concerning it, but most of the rock appears to be a medium-grained, greenish H-quartz diorite. Most of the hornblende has been converted to chlorite and chlorite coats many of the joint surfaces. The plagioclase is commonly epidotized. Locally the rock is stained reddish by hydrothermal alteration. Quartz is generally not plentiful. The grain size and the distribution of mafic minerals are irregular. In many places inclusions are very abundant and the rock is migmatitic. Dykes related to the Garibaldi volcanic rocks are common on the ridge.

(40) Between Gold and Mayer Creeks (PL)

East of the Mount Blanshard pendant is a small body consisting chiefly of medium- to coarse-grained H-quartz diorite. Quartz is abundant, forming numerous large crystals, some bluish, and the mafic mineral content is only about 5 per cent. The hornblende commonly forms clots of tiny crystals. Minor amounts of medium- to coarse-grained h-diorite are also present in the area. Locally epidote has replaced some of the plagioclase. The inclusion content is variable, but probably does not exceed 3 per cent.

(41) Vicinity of Dewdney Peak (PL)

This body underlies the lower reaches of Norrish Creek and most of the terrain between Dewdney Peak and Nicomen Mountain. The most common rock type is a medium-grained H-quartz diorite containing about 10 per cent hornblende. Biotite is rare except near the biotite-rich rocks to the west and in a few places between Norrish Creek and the western projection of the Nicomen Mountain pendant. Small areas of H-diorite are scattered irregularly throughout the area. The area as a whole is complicated by numerous small shears, abundant inclusions of dark fine-grained granulite, a considerable number of narrow andesitic dykes, epidote stringers, and widespread pink hydrothermal alteration.

(42) Between Stave and Chehalis Lakes (PL)

In the area extending from the central part of Stave Lake to Chehalis Lake, about 16 miles to the northeast, the most common rock type is a medium-grained H-quartz diorite, containing about 12 per cent hornblende. Some heterogeneity is

DIAMOND DRILL HOLE RECORD

MINE MAMQUAM RIVER - ALCO Mineral Claims

DATE 1 October 1975

HOLE No. 79-C-1; C - 2 SIZE EXT

Co-ordinates of Collar

LOCATION Surface

NORTHERLY

DIRECTION C-1 C-2

N. E.

DEPTH 19 Feet 29 Feet C-1 Vertical

STARTED 12 June 1975

POSITION C1 C Road C - 2 Dip - 40°
C2 5+00 - C Road ELEV. COLLAR 3250'

FINISHED 14 June 1975

SECTION			LOG	ASSAY		
FROM	TO	RECY		NUMBER		
0	19		<u>C - 1</u> 0 - 16 Casing - Medium Grained - Greenish H Quartz Diorite 0 - 19 ; First Ten Feet Fractured - Oxidized Reddish - Sulphides - Caved - Abandoned End of Hole			
	19		<u>C - 2 *</u>			
0	18		0 - 16 Casing; Medium Grained - Greenish H Quartz Diorite Reddish, Fractured - Oxidized			
18	29		Greenish Diorite - Some Quartz Pheno - Epidote Ferromagnesium Particles - Sulphides			
	29		End of Hole - Abandoned due to caving			
			* Direction - Due North			

TOTAL *

DRILLERS N. Dootoff

REMARKS:

Rock Formation - Fractured
Oxidized - Cp and Moly
in slips

EXAMINED BY W. J. Weymark P. Eng.

ASSAYER DATE

CORE AND SLUDGE SAMPLES

60-104

SECTION		ASSAY		RESULTS	REMARKS
FROM	TO	NUMBER			
Sample Identification				COPPER	MOLYBDENUM
				Percent Cu	Percent Mo
<u>FILTER PAPER SAMPLES</u>					
		79-C-1		0.04	L 0.01
8751*		79-C-1 6'-10'		0.17	L 0.01
8752		79-C-1 10'-15'		0.13	L 0.01
8753		79-C-1 15'-19'		0.10	L 0.01
8754		79-C-2 0'-5'		0.07	L 0.01
8755		79-C-2 5'-10'		0.08	L 0.01
8756		79-C-2 10'-15'		0.09	L 0.01
8757		79-C-2 15'-20'		0.07	L 0.01
8758		79-C-2 20'-25'		0.07	L 0.01
8759		79-C-2 25'-29'		0.05	L 0.01
ASSAY CERTIFICATE - 1455 D, CANTEST LTD - July 31, 1979					
Sample Identification				COPPER	MOLYBDENUM
				Percent Cu	Percent Mo
<u>SLUDGE SAMPLES</u>					
		79-C-1 6'-10'		0.06	L 0.01
6051**		79-C-1 10'-15'		0.06	L 0.01
6052		79-C-1 15'-19'		0.05	L 0.01
6053		79-C-2 5'-10'		0.05	L 0.01
6054		79-C-2 10'-15'		0.05	L 0.01
6055		79-C-2 15'-20'		0.05	L 0.01
6056		79-C-2 20'-25'		0.04	L 0.01
6057		" 25'-29'		0.03	0.01
6058					
** ASSAY CERTIFICATE 1509 D, CANTEST July 31, 1979					

DIAMOND DRILL HOLE RECORD

MINE MAMQUAM RIVER - ALCO Mineral Claims

DATE 1 October 1979

HOLE No. 79-C-1; C - 2 SIZE EXT

Co-ordinates of Collar

LOCATION Surface

DIRECTION NORTHERLY

DEPTH C-1 19 Feet C-2 29 Feet C-1 Vertical

N. E. STARTED 12 June 1979

POSITION C1 C Road 10+00 - C Road ELEV. COLLAR 3250'

FINISHED 14 June 1979

SECTION			LOG	ASSAY			
FROM	TO	RECY		NUMBER			
0	19		C - 1 0 - 16 Casing - Medium Grained - Greenish H Quartz Diorite 0 - 19 ; First Ten Feet Fractured - Oxidized Reddish - Sulphides - Caved - Abandoned End of Hole				
0	18		C - 2 * 0 - 16 Casing; Medium Grained - Greenish H Quartz Diorite Reddish, Fractured - Oxidized				
18	29		Greenish Diorite - Some Quartz Pheno - Epidote Ferromagnesian Particles - Sulphides				
	29		End of Hole - Abandoned due to caving				
			* Direction - Due North				

TOTAL

DRILLERS N. Dootoff

REMARKS:

Rock Formation - Fractured
Oxidized - Cp and Moly
in slips

EXAMINED BY W. J. Weymark P. Eng.

ASSAYER DATE

(OVER)

DIAMOND DRILL HOLE RECORD

MINE MANQUAM RIVER - ALCO MINERAL CLAIMS

DATE 1 October 1977

HOLE No. C - 3
C - 4 SIZE EXT

Co-ordinates of Collar

LOCATION Surface

DIRECTION Northerly

N. _____ E. _____

DEPTH C - 3 - 20' C-3 -45°
C - 4 - 15' DIP C-4-45°

STARTED 15 July 1979

POSITION C-3 -1100 C Road
C-4 -1200 C Road ELEV. COLLAR 3250

FINISHED 19 July 1977

SECTION			LOG	ASSAY		
FROM	TO	RECY		NUMBER		
			<u>C - 3</u>			
0	18		Casing			
			Medium Grained Grano-Diorite			
			Oxidized - some greenish mafic			FOR ASSAYS -
			Shattered - sheared min cp, py MoS2			SEE REVERSE
	20		End of Hole, Abandoned due to caving			
			<u>C - 4</u>			
0	14		Casing			
			The Same - more intensely shattered			FOR ASSAYS
						SEE REVERSE
	15		End of Hole			
			ABANDONED DUE TO CAVING			

TOTAL *

REMARKS:

DRILLERS N. Dootoff Drillers

EXAMINED BY William J. Weymark P.

CANTEST Nos 1455D - 31/7/79

ASSAYER 1509D DATE _____

CORE AND SLUDGE SAMPLES

SECTION		ASSAY			REMARKS
FROM	TO	NUMBER	RESULTS		
		<u>FILTER PAPER SAMPLES</u>		<u>Copper%</u>	<u>Mo%</u>
		8760 *79-C-3	4'-5'	0.06	L 0.01
		8761 79-C-3	5'-10'	0.09	L 0.01
		8762 79-C-3	10'-15'	0.12	L 0.01
		8763 79-C-3	15'-20'	0.03	L 0.01
		8764 79-C-4	4'-5'	0.07	L 0.01
		8765 79-C-4	5'-10'	0.05	L 0.01
		8766 79-C-4	10'-15'	0.06	L 0.01
		<u>SLUDGE SAMPLES</u>			
		** 6059 79-C-3	4'-5'	0.06	L 0.01
		6060 79-C-3	5'-10'	0.03	L 0.01
		6061 79-C-3	10'-15'	0.04	L 0.01
		6062 79-C-3	15'-20'	0.03	L 0.01
		6063 79-C-4	4'-5'	0.08	L 0.01
		6064 79-C-4	5'-10'	0.04	L 0.01
		6065 79-C-4	10'-15'	0.03	L 0.01

Form No. 13-A

* Assay Certificate No: 1509D; Cantest 31 July 1979

** Assay Certificate NO; 1509D; Cantest 31 July 1979

DIAMOND DRILL HOLE RECORD

MINE MAMQUAM RIVER - ALCO MINERAL CLAIMS

DATE 1 October 1979

HOLE No. C - 3
C - 4 SIZE EXT

Co-ordinates of Collar

LOCATION Surface

DIRECTION Northerly

N. E.

DEPTH C - 3 - 20'
C - 4 - 15' DIP C-3 - 45°
C-4 - 45°

STARTED 15 July 1979

POSITION C-3 - 1100 C Road
C-4 - 1200 C Road ELEV. COLLAR 3250

FINISHED 19 July 1979

SECTION			LOG	ASSAY		
FROM	TO	RECY		NUMBER		
0	18		C - 3			
			Casing			
			Medium Grained Grano-Diorite			FOR ASSAYS -
			Oxidized - some greenish mafis			SEE REVERSE
			Shattered - sheared min cp, py MoS2			
	20		End of Hole, Abandoned due to caving			
			C - 4			
0	14		Casing			
			The Same - more intensely shattered			FOR ASSAYS
						SEE REVERSE
	15		End of Hole			
			ABANDONED DUE TO CAVING			

TOTAL

%

DRILLERS N. Dootoff Drillers

REMARKS:

EXAMINED BY William J. Weymark P. E

CANTEST Nos 1455D - 31/7/79
1509D DATE

ASSAYER

(OVER)



can test ltd.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Weymark Engineering

1063 Balfour

Vancouver, B.C.

Certificate of Assay

File No. 2201D

Date September 12, 1979

HOLE NOS C - 5 and 6

Attention:

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

Sample Identification	Copper		Molybdenum		Sample Identification	Copper		Molybdenum	
	Percent	Cu	Percent	Mo		Percent	Cu	Percent	Mo
<u>Sludge Samples 6066-73</u>					<u>FILTER - 8767-75; 9426-28;</u>				
6066 79-B-1* 5' - 10'	0.04		L0.01		8772 79-B-2** 0' - 5'	0.03		L0.01	
6068 79-B-1 15' - 20'	0.02		L0.01		8773 79-B-2 5' - 10'	0.02		L0.01	
6069 79-B-1 20' - 25'	0.02		L0.01		8774 79-B-2 10' - 15'	0.04		L0.01	
6070 79-B-1 25' - 30'	0.01		L0.01		8775 79-B-2 15' - 20'	0.02		L0.01	
6071 79-B-2** 0' - 5'	0.05		L0.01		<u>9426 79-B-2 20' - 25'</u>	0.04		L0.01	
6072 79-B-2 5' - 10'	0.05		L0.01		9427 79-B-2 25' - 30'	0.03		L0.01	
6073 79-B-2 10' - 15'	0.05		L0.01		9428 79-B-2 30' - 35'	0.03		L0.01	
6074 79-B-2 15' - 20'	0.03		L0.01		9851 79-B-2 25' - 30'	0.04		L0.01	
6075 79-B-2 20' - 25'	0.04		L0.01		9852 79-B-2 30' - 35'	0.02		L0.01	
8767 79-B-1 5' - 10'	0.02		L0.01						
8769 79-B-1 15' - 20'	0.02		L0.01						
8770 79-B-1 20' - 25'	0.02		L0.01						
8771 79-B-1 25' - 30'	0.02		L0.01						

L = Less Than

* - Should be Hole C - 5
** - Should be Hole C - 6

CAN TEST LTD.

C. F. Burgess

Note: Pulps retained three months.

Rejects retained two weeks.

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DIAMOND DRILL HOLE RECORD

MINE MAMQUAM RIVER - ALCO MINERAL CLAIMS

DATE 1 October 1979

C - 7

HOLE No. C - 8

SIZE EXT

Co-ordinates of Collar

LOCATION Surface

DIRECTION North

N. E.

DEPTH C - 7 83'

C - 7 : -50°

C - 8 32'

DIP C - 8 : -25°

STARTED 29 August 1979

C - 7 15+00

POSITION C - 8 17+00

ELEV. COLLAR 3100

FINISHED 4 Sept 1979

SECTION			LOG	ASSAY		
NO	TO	RECY		C - 7	NUMBER	
	83		0 - 18 Casing Quartz Diorite - K Feldspar Leucocratic - Ferro magnesium mafics particles medium grained Slips, sheared zones scattered sulphides py, cp, MoS2 Epidote slips			
	83		End of Hole: Abandoned due to Caving			ASSAY RESULTS SEE OVER
			<u>C - 8</u>			
			<u>Location - 200 Feet West C - 7</u>			
	32		0 - 16 Casing Quartz Diorite - K Feldspar Matrix Leucocratic - Ferro magnesium mafics Particles - Medium Grained Slips - Oxidized - Sulphides Patches Epidote slips			
	32		End of Hole - Abandoned Due to Caving			

TOTAL

Fractured Zone
Sulphides -

DRILLERS N. Dootoff

REMARKS:

EXAMINED BY W. J. Weymark P. Eng.

ASSAYER CANTEST DATE

(OVER)

CORE AND SLUDGE SAMPLES

SECTION		ASSAY		REMARKS	
FROM	TO	NUMBER	RESULTS		
		FILTER PAPER SAMPLES		Copper%	Mo%
		9429*	79-C-7 0' - 5'	0.01	L 0.01
		9430	79- " 5' - 10'	0.02	L 0.01
		9431	79- " 10' - 15'	0.01	L 0.01
*Assay Cert: No: 2247D-2 Contest 2 October 1979					
Sample Identification				COPPER	MOLYBDENUM
				Percent Cu	Percent Mo
		9432*	79-C-7 15' - 20'	0.01	L 0.01
		9433	79- " 20' - 25'	0.02	L 0.01
		9434	79- " 25' - 30'	0.04	L 0.01
		9435	79-C-7 30' - 35'	0.01	L 0.01
		9436	79-C-8 2' - 5'	0.06	L 0.01
		9437	79- " 5' - 10'	0.07	L 0.01
		9438	79- " 10' - 15'	0.13	L 0.01
		9439	79- " 15' - 20'	0.12	L 0.01
<i>(Signature)</i> Principal Assayer					
		SLUDGE SAMPLES			
		9853 **	79-C-7 0' - 5'	0.04	L 0.01
		9854	79- " 5' - 10'	0.04	L 0.01
		9855	79- " 10' - 15'	0.03	L 0.01
		9856	79- " 15' - 20'	0.02	L 0.01
		9857	79- " 20' - 25'	0.03	L 0.01
		9858	79-C-7 25' - 30'	0.13	L 0.01
Sample Identification				COPPER	MOLYBDENUM
				Percent Cu	Percent Mo
		9859	79-C-7 30' - 35'	0.03	L 0.01
		9860	79-C-8 2' - 5'	0.19	L 0.01
		9861	79- " 10' - 15'	0.11	L 0.01
		9862	79- " 10' - 15'	0.15	L 0.01
		9863	79-C-8 15' - 20'	0.18	L 0.01
** Assay Certificate No: 2563D-2 Contest 11 October 1979					

CORE AND SLUDGE SAMPLES

SECTION		Sample Identification			COPPER		MOLYBDENUM		KS
FROM	TO				Percent Cu	Percent Mo			
FILTER PAPER SAMPLES									
		9436*	79-B-4	2' - 5'	0.06	L 0.01			
		9437	79-B-4	5' - 10'	0.07	L 0.01			
		9438	79-B-4	10' - 15'	0.13	L 0.01			
		9439	79-B-4	15' - 20'	0.12	L 0.01			
		9440	79-B-5	0' - 5'	0.11	L 0.01			
		9441	79-B-5	5' - 10'	0.06	L 0.01			
		9442	79-B-5	10' - 15'	0.03	L 0.01			
		9443	79-B-5	15' - 20'	0.04	L 0.01			
		9444	79-B-5	20' - 25'	0.04	L 0.01			
		9445	79-B-5	25' - 28'	0.03	L 0.01			
		9446	79-B-6	0' - 5'	0.14	L 0.01			
* Assay Certificate No: 2247D-3 Cantest, 2 October 1979									
SLUDGE SAMPLES		9860**	79-B-4	2' - 5'	0.19	L 0.01			
		9861	79-B-4	5' - 10'	0.11	L 0.01			
		9862	79-B-4	10' - 15'	0.15	L 0.01			
		9863	79-B-4	15' - 20'	0.18	L 0.01			
		**9864	79B5	5' - 10' 0-5'	0.11 0.08	L 0.01 0.01			
		9865	79-B-5	5' - 10'	0.11	L 0.01			
		9866	79-B-5	10' - 15'	0.09	L 0.01			
		9867	79-B-5	15' - 20'	0.08	L 0.01			
		9868	79-B-5	20' - 25'	0.06	L 0.01			
		9869	79-B-5	25' - 28'	0.10	L 0.01			
FORM NO. 13A									
** Assay Certificate NO: 2563D-3, 11 October 1979									
*** Assay Certificate NO: 2247D-3, Cantest 2 Octo 1979									

DIAMOND DRILL HOLE RECORD

MINE KANQUAM RIVER - ALCO MINERAL CLAIMS

DATE 1 October 1979

HOLE No. B - 6 600 E B Road EXT
B - 7 600 E "SIZE"

Co-ordinates of Collar

LOCATION Surface

DIRECTION North

N. E.

DEPTH B-6 - 34' B - 6 - 25' -
B-7 - 8' DIP B - 7 Vertical

STARTED 4 Sept 1979

POSITION B Road ELEV. COLLAR 2450 "

FINISHED 8 Sept 1979

SECTION			LOG	ASSAY		
M	TO	RECY		NUMBER		
0			<u>B - 6</u>			
0	<u>14'</u>		<u>Casing</u>			
			<u>H Quartz Diorite - Greenish Mafics medium grained, some finer grained sections, Fractures - weathered Py, Cp, MoS₂, Sheared</u>		<u>ASSAYS - SEE Reverse</u>	
	<u>34</u>		<u>End of Hole Abandoned due to caving</u>			
			<u>B - 7</u>			
0	<u>6'</u>		<u>Casing</u>			
			<u>Same as B - 6</u>			
	<u>8'</u>		<u>End of Hole Abandoned due to caving anchor pin would not hold</u>		<u>ASSAYS - SEE OVER</u>	

TOTAL \$

REMARKS:

DRILLERS N. Dootoff Drillers

EXAMINED BY W. J. Weymark P. Eng.

ASSAYER Cantest DATE

CORE AND SLUDGE SAMPLES

SECTION		ASSAY			REMARKS	
FROM	TO	NUMBER	RESULTS			
		<u>FILTER PAPER SAMPLE</u>				
		Sample Identification				
			<u>COPPER</u>	<u>MOLYBDENUM</u>		
			Percent Cu	Percent Mo		
		9446*	79-B-6	0 - 5'	0.14	0.01
		9447	79-B-6	5' - 10'	0.33	L 0.01
		9448	79-B-6	10' - 15'	0.11	L 0.01
		9449	79-B-6	15' - 20'	0.14	L 0.01
		9450	79-B-6	20' - 25'	0.11	L 0.01
		9401**	79-B-6	25' - 30'	0.07	0.01
		9402***	79-B-7	0 - 5'	0.46	0.01
		*** Assay Certificate No: 2247D-2 Cantest, 2 October 1979				
		** Assay Certificate No: 2563D-2 Cantest 11 October 1979				
		*Assay Certificate No: 2247D-3 Cantest 2 October 1979				
<u>SLUDGE</u>		9870****	79-B-6	0' - 5'	0.22	L 0.01
<u>SAMPLES</u>		9871	79-B-6	5' - 10'	0.33	L 0.01
		9872	79-B-6	10' - 15'	0.24	L 0.01
		9873	79-B-6	15' - 20'	0.33	L 0.01
		9874	79-B-6	20' - 25'	0.18	L 0.01
		9875	79-B-6	25' - 30'	0.11	L 0.01
		**** Assay Certificate No: 2563D-3 Cantest 11 October 1979				

DIAMOND DRILL HOLE RECORD

LINE MAMQUAM RIVER - ALCO MINERAL CLAIMS

DATE 1 October 1979

HOLE NO. B - 8

HOLE NO. B - 9

SIZE EXT

Co-ordinates of Collar

LOCATION Surface

DIRECTION North

B - 8 - 25°

N. E.

DEPTH B - 8 - 67'

DIP B - 9 Vertical

STARTED 8 Sept 1979

POSITION 10+ 00E B Road

ELEV. COLLAR 2540'

FINISHED 11 Sept 1979

SECTION		Log	ASSAY		
TO	RECY		NUMBER		
		B - 8			
18		Casing		SEE REVERSE FOR	
		H Quartz Diorite - Leucocratic - medium grained - some finer grained sections - Fractured - weathered some reddish bloom (Ferrous) Sulphides, - cp, py, MoS2 - greenish altered mafics		ASSAYS	
67		End of Hole			
		Abandoned due to caving			
		B - 9			
20		Casing		SEE REVERSE FOR	
		Same as B - 8 More Fractured		ASSAYS	
51		End of Hole			
		Abandoned due to caving			

TOTAL

REMARKS:

DRILLERS N. Dootoff Drillers
 EXAMINED BY William J. Weymark P. Eng
 ASSAYER Cantest DATE 11 Oct 79

(OVER)

DIAMOND DRILL HOLE RECORD

MINE MAMQUAM RIVER - ALCO MINERAL CLAIMS

DATE 1 October 1979

HOLE No. B - 8

HOLE No. B - 9

SIZE EXT

Co-ordinates of Collar

LOCATION Surface

DIRECTION North

DEPTH B - 8 - 67'

DEPTH B - 9 - 51'

B - 8 - 25°

DIP B - 9 Vertical

N. _____ E. _____

STARTED 8 Sept 1979

POSITION 10+ 00E B Road

ELEV. COLLAR 2540'

FINISHED 11 Sept 1979

SECTION			LOG	ASSAY		
FROM	TO	RECY		NUMBER		
			<u>B - 8</u>			
	18		Casing		SEE REVERSE FOR	
			H Quartz Diorite - Leucocratic - medium grained - some finer grained sections - Fractured - weathered some reddish bloom (Ferrous) Sulphides, - cp, py, MoS2 - greenish altered mafics		ASSAYS	
	67		End of Hole			
			Abandoned due to caving			
			<u>B - 9</u>			
	20		Casing		SEE REVERSE FOR	
			Same as B - 8 More Fractured		ASSAYS	
	51		End of Hole			
			Abandoned due to caving			

TOTAL

REMARKS:

DRILLERS N. Dootoff Drillers

EXAMINED BY William J. Weymark P. Eng

ASSAYER Cantest

DATE 11 Oct 79

(OVER)

DIAMOND DRILL HOLE RECORD

 MINE MAMQUAM RIVER - ALCO MINERAL CLAIMS

 DATE 15 October 1979

 HOLE NO. B - 10 SIZE EXT.

Co-ordinates of Collar

 LOCATION Surface

 DIRECTION North B - 10 Vertical

 N. E.

 DEPTH B - 10 26' DIP B - 11 -30°

 STARTED 11 Sept 1979

 POSITION 15 + 00 E B Road ELEV. COLLAR 2500'

 FINISHED 13 Sept 1979

SECTION		LOG	ASSAY		
TO	RECY		NUMBER		
		<u>B - 10</u>			
18		Casing		SEE REVERSE FOR ASSAYS	
		H Quartz Diorite - Leucocratic medium Grained, some finer grained sections Well Fractures, weathered - greenish altered mafics Sulphides, cp, py MoS2			
26		End of Hole Abandoned due to caving			
		<u>B - 11</u>			
20		Casing		See Reverse for ASSAYS	
		The Same as B - 10 More fractured			
20		End of Hole Abandoned due to caving			

TOTAL *

 DRILLERS N Dootoff Drillers

REMARKS:

 EXAMINED BY William J. Weymark P. Eng

 ASSAYER CANTEST DATE 11 Oct 1979

(OVER)

CORE AND SLUDGE SAMPLES

DATE: 10/11/79

SECTION		ASSAY			REMARKS		
FROM	TO	NUMBER	RESULTS	Cu%	Mo%		
		<u>FILTER PAPER SAMPLES</u>					
		9277 *	79-B-10 0' - 5'	0.05	L 0.01		
		9278	79-B-10 5' - 10'	0.06	L 0.01		
		9279	79-B-10 10' - 15'	0.09	L 0.01		
		9280 *	79-B-10 15' - 20'	0.11	L 0.01		
* ASSAY CERTIFICATE NO. 2247D - 1							
Cantest 2 October 1979							
Sample Identification							
				COPPER	MOLYBDENUM		
				Percent Cu	Percent Mo		
		9281 *	79-B-10 20' - 25'	0.05	L 0.01		
		9282	79-B-11 0' - 5'	0.06	L 0.01		
		9283	79-B-11 5' - 10'	0.06	L 0.01		
		9284	79-B-11 10' - 15'	0.21	0.01		
		9285	79-B-11 15' - 20'	0.07	L 0.01		
		9286	79-B-11 20' - 25'	0.11	L 0.01		
		9287	79-B-11 25' - 30'	0.06	L 0.01		
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Form No. 13 A * ASSAY CERTIFICATE NO 2247D - 1							
- Cantest - 2 October 1979							
Sample Identification				COPPER	MOLYBDENUM		
<u>SLUDGE SAMPLES</u>				Percent Cu	Percent Mo		
		9376 **	79-B-10 0' - 5'	0.13	L 0.01		
		9377	79-B-10 5' - 10'	0.14	L 0.01		
		9378	79-B-10 10' - 15'	0.09	L 0.01		
		9379	79-B-10 15' - 20'	0.10	L 0.01		
		9380	79-B-10 20' - 25'	0.12	L 0.01		
		9381	79-B-11 0' - 5'	0.20	L 0.01		
		9382	79-B-11 5' - 10'	0.10	L 0.01		
		9383	79-B-11 10' - 15'	0.25	L 0.01		
		9384	79-B-11 15' - 20'	0.13	L 0.01		
		9385	79-B-11 20' - 25'	0.14	L 0.01		
		9386	79-B-11 25' - 30'	0.14	L 0.01		
** Assay Certificate NO: 256B - 2							
CANTEST - 11 October 1979							

DIAMOND DRILL HOLE RECORD

MINE MAMQUAM RIVER - ALCO MINERAL CLAIMS

DATE 15 Oct 1979

HOLE NO. B - 12
B - 13 SIZE EXT

Co-ordinates of Collar

LOCATION Surface

DIRECTION North

N. E.

DEPTH B-12 - 25' B-12 - 30°
B - 13 - 41' DIP B-13 - 40°

STARTED 14 Sept 1979

POSITION B12 - 500W B Road
B13 - 10+00W ELEV. COLLAR 2425'

FINISHED 16 Sept 1979

SECTION		LOG	ASSAY	
M	TO RECY		NUMBER	
		<u>B - 12</u>		
	14	Casing Quartz Diorite - Fine Grained Greenish altered mafics - Leucocratic sulphides cp, py MoS2 Fractured, sheared, rusty slips		SEE REVERSE FOR ASSAYS
	25	End of Hole Abandoned due to caving		
		<u>B - 13</u>		
0	12	Casing Quartz Diorite - Fine Grained altered greenish mafics - epidote sheared, shattered - weathered Sulphides - cp, py MoS2 esp 35 - 41'		SEE REVERSE FOR ASSAYS
	41	End of Hole Abandoned due to caving		
		Assay B-13 <u>35 - 41'</u> Copper - 0.20% Molybdenum - 0.16% Assay Certificate Cantest - 3433D 3 December 1979		

TOTAL %

DRILLERS N. Dootoff Drillers
 EXAMINED BY William J. Weymark P.Eng.
 ASSAYER CANTEST DATE 11 Oct 1979

REMARKS:

CORE AND SLUDGE SAMPLES

SECTION		ASSAY		REMARKS
FROM	TO	NUMBER	RESULTS	
FILTER-PAPER SAMPLES				
			Copper %	MO% - etc.
		0' - 5'	0.04	L 0.01
		5' - 10'	0.01	L 0.01
		10' - 15'	0.06	L 0.01
		15' - 20'	0.03	L 0.01
		20' - 25'	0.03	L 0.01
		0' - 5'	0.06	L 0.01
		5' - 10'	0.05	L 0.01
		10' - 15'	0.06	L 0.01
Sample Identification			COPPER	MOLYBDENUM
			Percent Cu	Percent Mo
		15' - 20'	0.08	L 0.01
		20' - 25'	0.12	0.01
		25' - 30'	0.18	0.02
		30' - 35'	0.19	0.02
CAN TEST LTD.				
* Assay Certificate No: 2247D -1-2 Cantest 2 October 1979				
<i>File</i>		<i>J. Burgess</i> PROVINCIAL ASSAYER		
SLUDGE SAMPLES				
		0' - 5'	0.05	L 0.01
		5' - 10'	0.03	L 0.01
		10' - 15'	0.06	L 0.01
		15' - 20'	0.05	L 0.01
		20' - 25'	0.05	L 0.01
		0' - 5'	0.08	L 0.01
Sample Identification			COPPER	MOLYBDENUM
			Percent Cu	Percent Mo.
		5' - 10'	0.07	L 0.01
		10' - 15'	0.07	L 0.01
		15' - 20'	0.10	L 0.01
		20' - 25'	0.11	L 0.01
		25' - 30'	0.22	L 0.01
		30' - 35'	0.30	0.08
* Assay Cer No: 2563D-2 ; 11 Oct 1979 Cantest 11 Oct 1979				

DIAMOND DRILL HOLE RECORD

MINE MAMQUAM RIVER - ALCO MINERAL CLAIMS

DATE 15 Oct 1979

HOLE No. B - 12 SIZE EXT

Co-ordinates of Collar

LOCATION Surface

DIRECTION North N E

DEPTH B-12 - 25' B-12 - 30°
B - 13 - 41' DIP B-13 - 40°

STARTED 14 Sept 1979

POSITION B12 - 500W B Road ELEV. COLLAR 2425'
B13 - 10+00W *

FINISHED 16 Sept 1979

SECTION			LOG	ASSAY		
FROM	TO	RECY		NUMBER		
			<u>B - 12</u>			
0	14		Casing Quartz Diorite - Fine Grained Greenish altered mafics - Leucocratic sulphides cp, py MoS2 Fractured, sheared, rusty slips		SEE REVERSE FOR	
					ASSAYS	
	25		End of Hole			
			Abandoned due to caving			
			<u>B - 13</u>			
0	12		Casing Quartz Diorite - Fine Grained altered greenish mafics - epidote sheared, shattered - weathered Sulphides - cp, py MoS2 esp 35 - 41'		SEE REVERSE FOR	
					ASSAYS	
	41		End of Hole			
			Abandoned due to caving			
			Assay B-13 35 - 41'			
			Copper - 0.20%			
			Molybdenum - 0.16%			
			Assay Certificate Cantest - 3433D			
			3 December 1979			

TOTAL *

REMARKS:

DRILLERS N. Dootoff Drillers

EXAMINED BY William J. Weymark P. Eng.

ASSAYER CANTEST DATE 11 Oct 1979

(OVER)

DIAMOND DRILL HOLE RECORD

MINE... MAMQUAM RIVER - ALCO MINERAL CLAIMS

DATE 15 October 1979

B - 14

HOLE No. B - 15

SIZE... EXT...

Co-ordinates of Collar

LOCATION Surface

DIRECTION North

N..... E.....

B-14 - 32'

B-14 - 35°

B-15 - 25'

DIP B-15 - 35°

STARTED 16 Sept 1979

B-14 - 14+00 West B Road

B-15 - 16+00 West B Road COLLAR 2400'

FINISHED 18 Sept 1979

SECTION		LOG	ASSAY	
M	TO RECY		NUMBER	
		B - 14		
	12	Casing Greenish fine grained Andesite dyke Fractured		
	30	End of Hole Hole Abandoned due to caving		SEE REVERSE FOR ASSAYS
		B - 15		
	20	Casing H Quartz Diorite - medium to fine grained Leucocratic - reddish bloc (Ferrous) Fractures, sheared Sulphides - cp, py, MoS2 Greenish altered Mafics - epidote		SEE REVERSE FOR ASSAYS
	25'	End of Hole Abandoned due to Caving		

TOTAL %

DRILLERS N. Dootoff Drillers

REMARKS:

EXAMINED BY William J. Weymark

ASSAYER CANTEST DATE 11 Oct 1979

(OVER)

CORE AND SLUDGE SAMPLES

SECTION		ASSAY		REMARKS
FROM	TO	NUMBER	RESULTS	
Sample Identification				
FILTER PAPER SAMPLES				
			COPPER Percent Cu	MOLYBDENUM Percent Mo
		9300* 79-B-14 0' - 5'	0.07	LO.01
		8051 ** 79-B-14 5' - 10'	0.36	L 0.01
		8052 79-B-14 10' - 15'	0.27	0.06
		8053 79-B-14 15' - 20'	0.07	0.04
		*** 8054 79-B-14 20' - 25'	0.04	L 0.01
		8055 79-B-14 25' - 30'	0.18	0.01
		8056 79-B-15 0' - 5'	0.40	L 0.01
		8057 79-B-15 5' - 10'	0.48	L 0.01
		8058 79-B-15 10' - 15'	0.35	L 0.01
		8059 79-B-15 15' - 20'	0.20	L 0.01
		8060 79-B-15 20' - 25'	0.12	L 0.01
		9276 79-B-9 45' - 50'	0.02	L 0.01
		9277 79-B-10 0' - 5'	0.05	L 0.01
		9278 79-B-10 5' - 10'	0.06	L 0.01
		9279 79-B-10 10' - 15'	0.09	L 0.01
		9280 79-B-10 15' - 20'	0.11	L 0.01
*Assay Cert: No:2247D-2 Cantest 2 Oct 1979				
L = Less than				
*** Assay Cert No:2247D-1; 2 Oct 1979				
*** Assay Cert No 2563D -1 11) Oct 1979				
SLUDGE SAMPLES				
		9399**** 79-B-14 0' - 5'	0.17	L 0.01
		9400 *** 79-B-14 5' - 10'	0.12	L 0.01
		4676 *** 79-B-14 10' - 15'	0.15	0.01
		4677 79-B-14 15' - 20'	0.14	L 0.01
		4678 79-B-14 20' - 25'	0.11	L 0.01
		4679 79-B-14 25' - 30'	0.12	L 0.01
		4680 79-B-15 0' - 5'	0.51	L 0.01
		4681 79-B-15 5' - 10'	1.20	L 0.01
		4682 79-B-15 10' - 15'	0.43	L 0.01
		4683 79-B-15 15' - 20'	0.35	L 0.01
		4684 79-B-15 20' - 25'	0.23	L 0.01
**** Assay Certificate No: 2563D-2 Cantest 11 Oct 1979				
***** " " " " No: 2563D-1 Cantest 11 Oct 1979				

CAN TEST LTD.

C. L. Burgess

Provincial Assayer

DIAMOND DRILL HOLE RECORD

MINE MAMQUAM RIVER - ALCO MINERAL CLAIMS

DATE 15 October 1979

B - 14

HOLE No. B - 15

SIZE EXT

Co-ordinates of Collar

LOCATION Surface

DIRECTION North

N. E.

DEPTH B-14 - 32'

B-15 - 25'

DIP B-14 - 35°

B-15 - -35°

STARTED 16 Sept 1979

POSITION B-14 - 14+00 West B Road

B-15 - 16+00 West B Road

COLLAR 2400'

FINISHED 18 Sept 1979

SECTION			LOG	ASSAY		
FROM	TO	RECY		NUMBER		
			<u>B - 14</u>			
0	12		Casing greenish fine grained Andesite dyke Fractured			
	30		End of Hole Hole Abandoned due to caving			SEE REVERSE FOR ASSAYS
			<u>B - 15</u>			
0	20		Casing H Quartz Diorite - medium to fine grained Leucocratic - reddish bloo (Ferrous) Fractures, sheared Sulphides - cp, py, MoS2 Greenish altered Mafica - epidote			
	25'		End of Hole Abandoned due to Caving			SEE REVERSE FOR ASSAYS

TOTAL %

REMARKS:

DRILLERS N. Dootoff Drillers

EXAMINED BY William J. Weymark

ASSAYER CANTEST DATE 11 Oct 1979

(OVER)

To:

Waymark Engineering

1063 Balfour

Vancouver, B. C.



can test ltd.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254-7278

Telex 04-54210

Certificate of Assay

File No. 1455 D

Date July 31, 1979

Attention:

We hereby Certify that the following are the results of assays made by us upon submitted ORE samples.

Sample Identification	COPPER		MOLYBDENUM		Sample Identification	Percent	Percent
	Percent	Cu	Percent	Mo			
79-C-1	0.04		L 0.01				
8751 79-C-1 6'-10'	0.17		L 0.01				
8752 79-C-1 10'-15'	0.13		L 0.01				
8753 79-C-1 15'-19'	0.10		L 0.01				
8754 79-C-2 0'-5'	0.07		L 0.01				
8755 79-C-2 5'-10'	0.08		L 0.01				
8756 79-C-2 10'-15'	0.09		L 0.01				
8757 79-C-2 15'-20'	0.07		L 0.01				
8758 79-C-2 20'-25'	0.07		L 0.01				
8759 79-C-2 25'-29'	0.05		L 0.01				
6054 79-C-2 5'-10'	0.05		L 0.01				
6055 79-C-2 10'-15'	0.05		L 0.01				
6056 79-C-2 15'-20'	0.05		L 0.01				
6057 79-C-2 20'-25'	0.04		L 0.01				

L = Less than

Note: Pulps retained three months.

Rejects retained two weeks.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERE TO IS LIMITED TO THE FEE CHARGED.

CAN TEST LTD.

ANNEX - C

To:

Weymark Engineering

1063 Balfour

Vancouver, B. C.



can test ltd.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254-7278

Telex 04-54210

Certificate of Assay

File No. 1509 D

Date July 31, 1979

Attention:

We hereby Certify that the following are the results of assays made by us upon submitted ORE samples.

Sample Identification	COPPER		MOLYBDENUM		Sample Identification	Percent	Percent
	Percent	Cu	Percent	Mo			
6051 79-C-1 6 ¹ -10 ¹	0.06		L	0.01			
6052 79-C-1 10 ¹ -15 ¹	0.06		L	0.01			
6053 79-C-1 15 ¹ -19 ¹	0.05		L	0.01			
6058 79-C-2 25 ¹ -29 ¹	0.03		L	0.01			
6059 79-C-3 4 ¹ -5 ¹	0.06		L	0.01			
6060 79-C-3 5 ¹ -10 ¹	0.03		L	0.01			
6061 79-C-3 10 ¹ -15 ¹	0.04		L	0.01			
6062 79-C-3 15 ¹ -20 ¹	0.03		L	0.01			
6063 79-C-4 4 ¹ -5 ¹	0.08		L	0.01			
6064 79-C-4 5 ¹ -10 ¹	0.04		L	0.01			
6065 79-C-4 10 ¹ -15 ¹	0.03		L	0.01			
8760 79-C-3 4 ¹ -5 ¹	0.06		L	0.01			
8761 79-C-3 5 ¹ -10 ¹	0.09		L	0.01			
8762 79-C-3 10 ¹ -15 ¹	0.12		L	0.01			
8763 79-C-3 15 ¹ -20 ¹	0.03		L	0.01			
8764 79-C-4 4 ¹ -5 ¹	0.07		L	0.01			
8765 79-C-4 5 ¹ -10 ¹	0.05		L	0.01			
8766 79-C-4 10 ¹ -15 ¹	0.06		L	0.01			

L = Less than

Note: Pulps retained three months.

Rejects retained two weeks.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

Form No. 13-A

CAN TEST LTD.

C. F. Bessy
 Provincial Assayer

To:

Weymark Engineering

1063 Balfour

Vancouver, B.C.



can test ltd.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254-7278

Telex 04-54210

Certificate of Assay

File No. 2201D

Date September 12, 1979

Attention:

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

Sample Identification	Copper		Molybdenum		Sample Identification	Copper		Molybdenum	
	Percent	Cu	Percent	Mo		Percent	Cu	Percent	Mo
6066 79-B-1 5' - 10'	0.04		10.01		8772 79-B-2 0' - 5'	0.03		10.01	
6068 79-B-1 15' - 20'	0.02		10.01		8773 79-B-2 5' - 10'	0.02		10.01	
6069 79-B-1 20' - 25'	0.02		10.01		8774 79-B-2 10' - 15'	0.04		10.01	
6070 79-B-1 25' - 30'	0.01		10.01		8775 79-B-2 15' - 20'	0.02		10.01	
6071 79-B-2 0' - 5'	0.05		10.01		9426 79-B-2 20' - 25'	0.04		10.01	
6072 79-B-2 5' - 10'	0.05		10.01		9427 79-B-2 25' - 30'	0.03		10.01	
6073 79-B-2 10' - 15'	0.05		10.01		9428 79-B-2 30' - 35'	0.03		10.01	
6074 79-B-2 15' - 20'	0.03		10.01		9851 79-B-2 25' - 30'	0.04		10.01	
6075 79-B-2 20' - 25'	0.04		10.01		9852 79-B-2 30' - 35'	0.02		10.01	
8767 79-B-1 5' - 10'	0.02		10.01						
8769 79-B-1 15' - 20'	0.02		10.01						
8770 79-B-1 20' - 25'	0.02		10.01						
8771 79-B-1 25' - 30'	0.02		10.01						

L = Less Than

Note: Pulps retained three months

Rejects retained two weeks.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

Form No. 13 A

CAN TEST LTD.

Provincial Assayer

To:

Weymark Engineering

1063 Balfour

Vancouver, B.C.

**can test ltd.**

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 264-7279

Telex 04-54210

Certificate of Assay

File No. 2247D-3

Date Oct. 2/79

Attention:

We hereby Certify that the following are the results of assays made by us upon submitted ORE samples.

Sample Identification			COPPER		MOLYBDENUM		Sample Identification			COPPER		MOLYBDENUM	
			Percent	Cu	Percent	Mo				Percent	Cu	Percent	Mo
9432	79-B-3	15' - 20'	0.01		L 0.01	9447	79-B-6	5' - 10'	0.33		L 0.01		
9433	79-B-3	20' - 25'	0.02		L 0.01	9448	79-B-6	10' - 15'	0.11		L 0.01		
9434	79-B-3	25' - 30'	0.04		L 0.01	9449	79-B-6	15' - 20'	0.14		L 0.01		
9435	79-B-3	30' - 35'	0.01		L 0.01	9450	79-B-6	20' - 25'	0.11		L 0.01		
9436	79-B-4	2' - 5'	0.06		L 0.01	9864	79-B-5	0' - 5'	0.08		L 0.01		
9437	79-B-4	5' - 10'	0.07		L 0.01								
9438	79-B-4	10' - 15'	0.13		L 0.01								
9439	79-B-4	15' - 20'	0.12		L 0.01								
9440	79-B-5	0' - 5'	0.11		L 0.01								
9441	79-B-5	5' - 10'	0.06		L 0.01								
9442	79-B-5	10' - 15'	0.05		L 0.01								
9443	79-B-5	15' - 20'	0.04		L 0.01								
9444	79-B-5	20' - 25'	0.04		L 0.01								
9445	79-B-5	25' - 28'	0.03		L 0.01								
9446	79-B-6	0' - 5'	0.14		L 0.01								

Note Pulps retained three months

Rejects retained two weeks

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

Form No. 13-A

CAN TEST LTD.

[Signature]
Principal Assayer

To:

Weymark Engineering

1063 Balfour

Vancouver, B.C.

**can test ltd.**

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254-7278

Telex 04-54210

Certificate of Assay

File No. 2247D - 2

Date Oct. 2/79

Attention:

We hereby Certify that the following are the results of assays made by us upon submitted ORE samples.

Sample Identification			COPPER		MOLYBDENUM		Sample Identification			COPPER		MOLYBDENUM	
			Percent	Cu	Percent	Mo				Percent	Cu	Percent	Mo
9296	79-B-13	15' - 20'	0.08		L 0.01		9414	79-B-8	55' - 60'	0.02		0.02	
9297	79-B-13	20' - 25'	0.12		0.01		9415	79-B-8	60' - 65'	0.05		0.03	
9298	79-B-13	25' - 30'	0.18		0.02		9416	79-B-8	65' - 70'	0.05		0.01	
9299	79-B-13	30' - 35'	0.19		0.02		9417	79-B-9	0' - 5'	0.03		L 0.01	
9300	79-B-14	0' - 5'	0.07		L 0.01		9418	79-B-9	5' - 10'	0.02		L 0.01	
9402	79-B-7	0' - 5'	0.46		L 0.01		9419	79-B-9	10' - 15'	0.01		L 0.01	
9403	79-B-8	0' - 5'	0.01		L 0.01		9420	79-B-9	15' - 20'	0.01		L 0.01	
9406	79-B-8	15' - 20'	0.04		L 0.01		9421	79-B-9	20' - 25'	0.04		L 0.01	
9407	79-B-8	20' - 25'	0.01		L 0.01		9422	79-B-9	25' - 30'	0.01		L 0.01	
9408	79-B-8	25' - 30'	0.05		L 0.01		9423	79-B-9	30' - 35'	0.01		L 0.01	
9409	79-B-8	30' - 35'	0.04		L 0.01		9424	79-B-9	35' - 40'	0.01		L 0.01	
9410	79-B-8	35' - 40'	0.04		L 0.01		9425	79-B-9	40' - 45'	0.01		L 0.01	
9411	79-B-8	40' - 45'	0.02		L 0.01		9429	79-B-3	0' - 5'	0.01		L 0.01	
9412	79-B-8	45' - 50'	0.03		L 0.01		9430	79-B-3	5' - 10'	0.02		L 0.01	
9413	79-B-8	50' - 55'	0.03		0.12		9431	79-B-3	10' - 15'	0.01		L 0.01	

L = Less than

Note: Pulps retained three months.

Rejects retained two weeks.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERE TO IS LIMITED TO THE FEE CHARGED.

Form No. 13 A

CAN TEST LTD.

 Assayer

To:



can test ltd.

7650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254-7278

Telex 04-54210

Weymark Engineering

1063 Balfour

Vancouver, B.C.

Certificate of Assay

File No. 2247D - 1

Date Oct. 2, 1979

Attention:

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

Sample Identification			COPPER		MOLYBDENUM		Sample Identification			COPPER		MOLYBDENUM	
			Percent	Cu	Percent	Mo				Percent	Cu	Percent	Mo
4626	79-B-7	0' - 5'	0.36		L 0.01		9281	79-B-10	20' - 25'	0.05		L 0.01	
8051	79-B-14	5' - 10'	0.06		L 0.01		9282	79-B-11	0' - 5'	0.06		L 0.01	
8052	79-B-14	10' - 15'	0.27		0.06		9283	79-B-11	5' - 10'	0.06		L 0.01	
8053	79-B-14	15' - 20'	0.07		0.04		9284	79-B-11	10' - 15'	0.21		0.01	
8054	79-B-14	20' - 25'	0.04		L 0.01		9285	79-B-11	15' - 20'	0.07		L 0.01	
8056	79-B-15	0' - 5'	0.40		L 0.01		9286	79-B-11	20' - 25'	0.11		L 0.01	
8057	79-B-15	5' - 10'	0.48		L 0.01		9287	79-B-11	25' - 30'	0.06		L 0.01	
8058	79-B-15	10' - 15'	0.35		L 0.01		9288	79-B-12	0' - 5'	0.04		L 0.01	
8059	79-B-15	15' - 20'	0.20		L 0.01		9289	79-B-12	5' - 10'	0.01		L 0.01	
8060	79-B-15	20' - 25'	0.12		L 0.01		9290	79-B-12	10' - 15'	0.06		L 0.01	
9276	79-B-9	45' - 50'	0.02		L 0.01		9291	79-B-12	15' - 20'	0.03		L 0.01	
9277	79-B-10	0' - 5'	0.05		L 0.01		9292	79-B-12	20' - 25'	0.03		L 0.01	
9278	79-B-10	5' - 10'	0.06		L 0.01		9293	79-B-13	0' - 5'	0.06		L 0.01	
9279	79-B-10	10' - 15'	0.09		L 0.01		9294	79-B-13	5' - 10'	0.05		L 0.01	
9280	79-B-10	15' - 20'	0.11		L 0.01		9295	79-B-13	10' - 15'	0.06		L 0.01	

L = Less than

Note: Pulps retained three months

Rejects retained two weeks.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED HERETO IS LIMITED TO THE FEE CHARGED.

Form No. 13-A

CAN TEST LTD.

[Signature]
 Principal Assayer

To:



can test ltd.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6

Telephone 254-7278

Telex 04-54210

Weymark Engineering

1063 Balfour

Vancouver, B.C.

Certificate of Assay

File No. 3433D

Date December 3, 1979

Attention:

We hereby Certify that the following are the results of assays made by us upon submitted D.D. Core samples.

Sample Identification	COPPER		MOLYBDENUM		Sample Identification	Percent	Percent
	Percent	Cu	Percent	Mo			
4685A B - 13 35 - 41'	0.20		0.16				

Note: Pulps retained three months.

Rejects retained two weeks.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

Form No. 13-A

CAN TEST LTD.

F. B. Bennett

Provincial Assayer

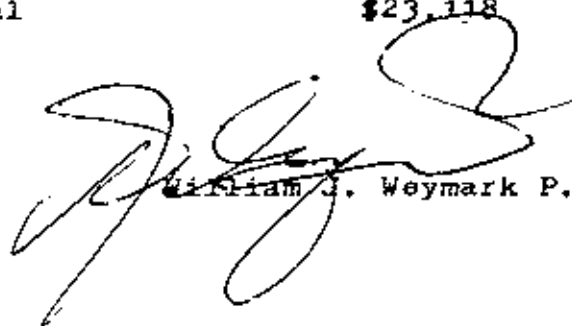
ANNEX - D

COST DISTRIBUTION

1. N. Dootoff Drillers		
Diamond Drilling Contract	.....	\$13,100
2. Samplers		
S. Krstoff, Vancouver	.....	270
M. Miller, Delta	....	513
J. Weymark, West Vancouver	....	600
3. 4 x 4 Trusk rental	....	505
4. Assayers, Cantest	....	2,705
Chemex		860
5. Wm Chang M. Sc.	....	1,265
6. Weymark Engineering Ltd.		
Field Surveys, Geological,		
spotting drill holes, grid		
logging core, sampling, collation		
plotting, fairdrawing and inter-		
pretation of data and preparation		
of report	.....	<u>3,340</u>

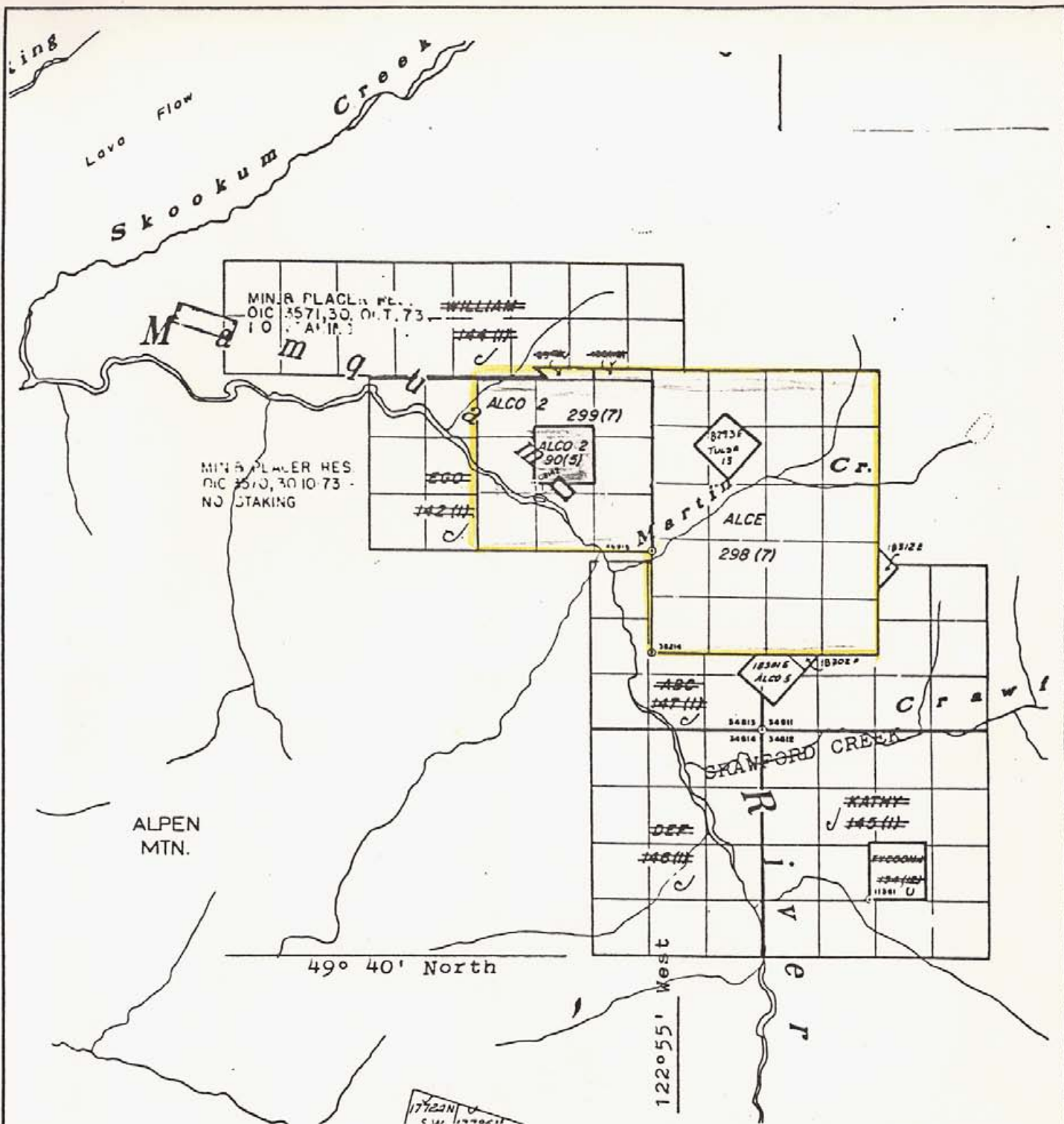
Total

\$23,118



William J. Weymark P. Eng.

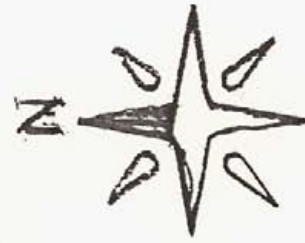
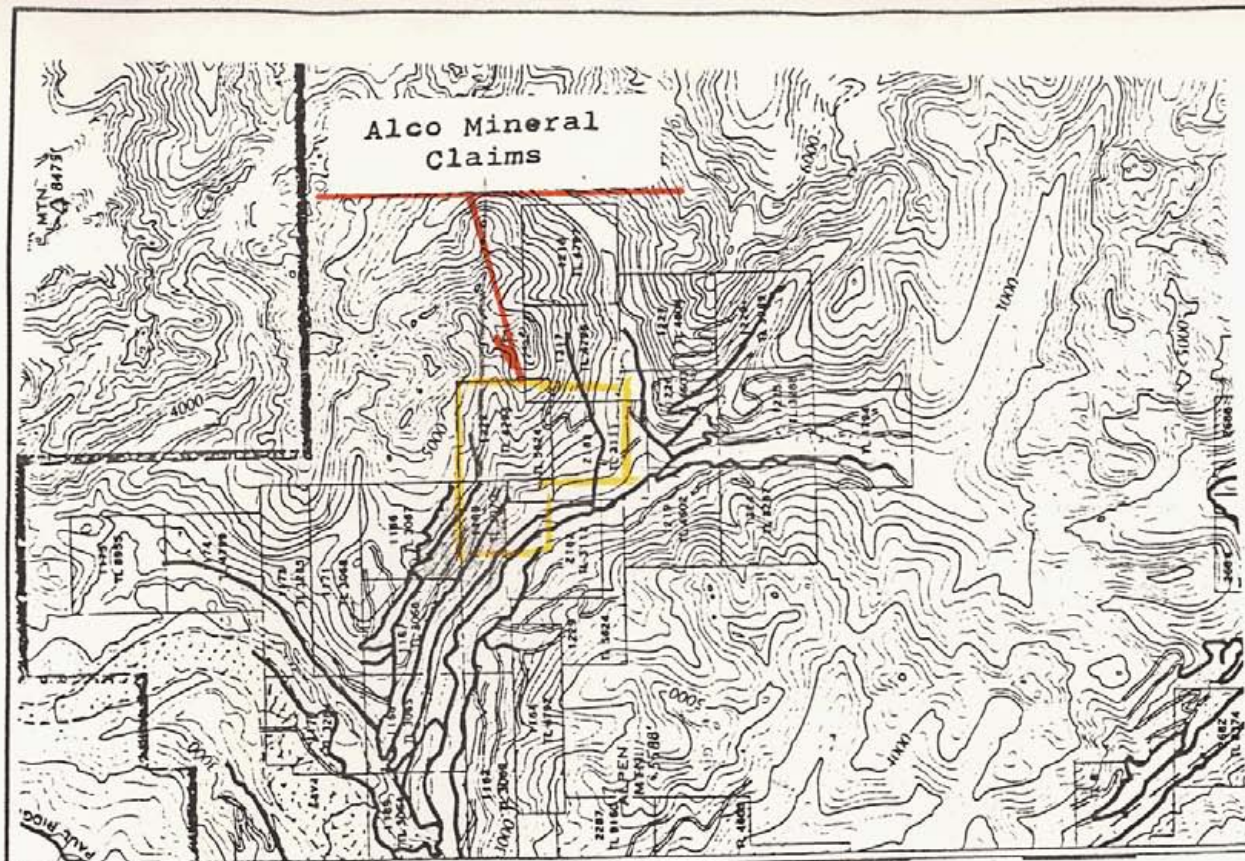
ILLUSTRATIONS



AMARK EXPLORATIONS LTD.	
WEYMARK ENGINEERING LTD.	
CONSULTING ENGINEERS	
WEST VANCOUVER, BRITISH COLUMBIA	
CANADA	
ALCO MINERAL CLAIMS GROUP	
VANCOUVER MINING DIVISION	
DATE	2 Jan 79
SUBMITTED	WJW
DRAWN	WJW
TRACED	WJW
SCALE	1" = 1.25 miles
CHECKED	WJW
FILE No.	AM - 1
CONTRACT	AM-1

Reference: B. C. Minister of Mines
Map M92G/10W, July 27/1978

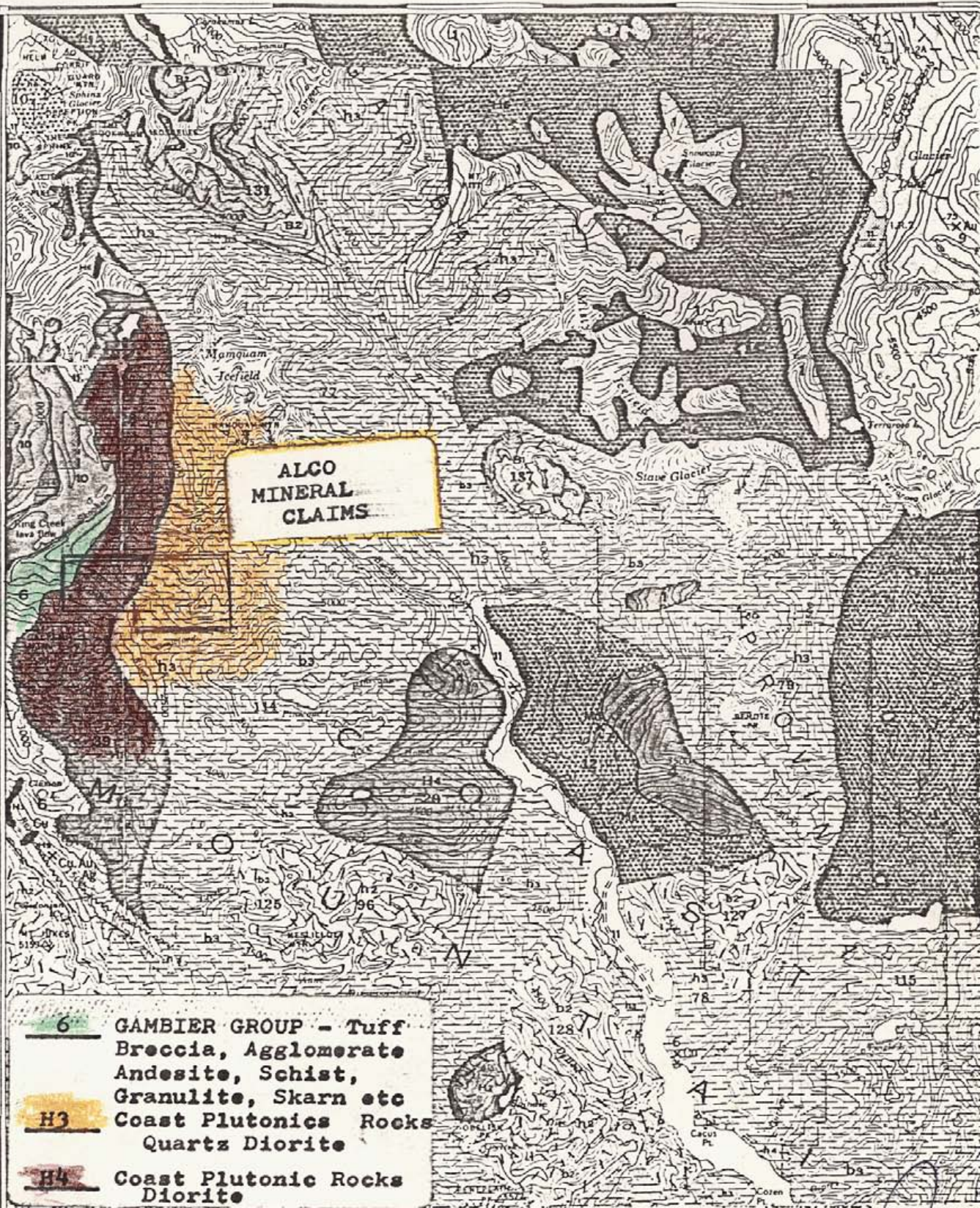
FIGURE: 2



Reference: Sheet 92G/NW; Squamish Sheet 92 G/NE Pitt River B. C.

AMARK EXPLORATIONS LTD.	
WEYMARK ENGINEERING LTD.	
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WEST VANCOUVER, BRITISH COLUMBIA CANADA	
ALCO MINERAL CLAIMS GROUP ACCESS AND TOPOGRAPHY	
DATE	2/1/79
SUBMITTED	WJW
DRAWN	WJW
TRACED	WJW
SCALE:	One In = 2 mi
CHECKED	WJW
FILE No.	AM - 1
CONTRACT	AM - 1

FIGURE: 2A



REFERENCE: Memoir 335 Geological Survey of Canada, Vancouver North Coquitlam and Pitt Lake Map-Areas, B. C. J. A. Roddick, 1965

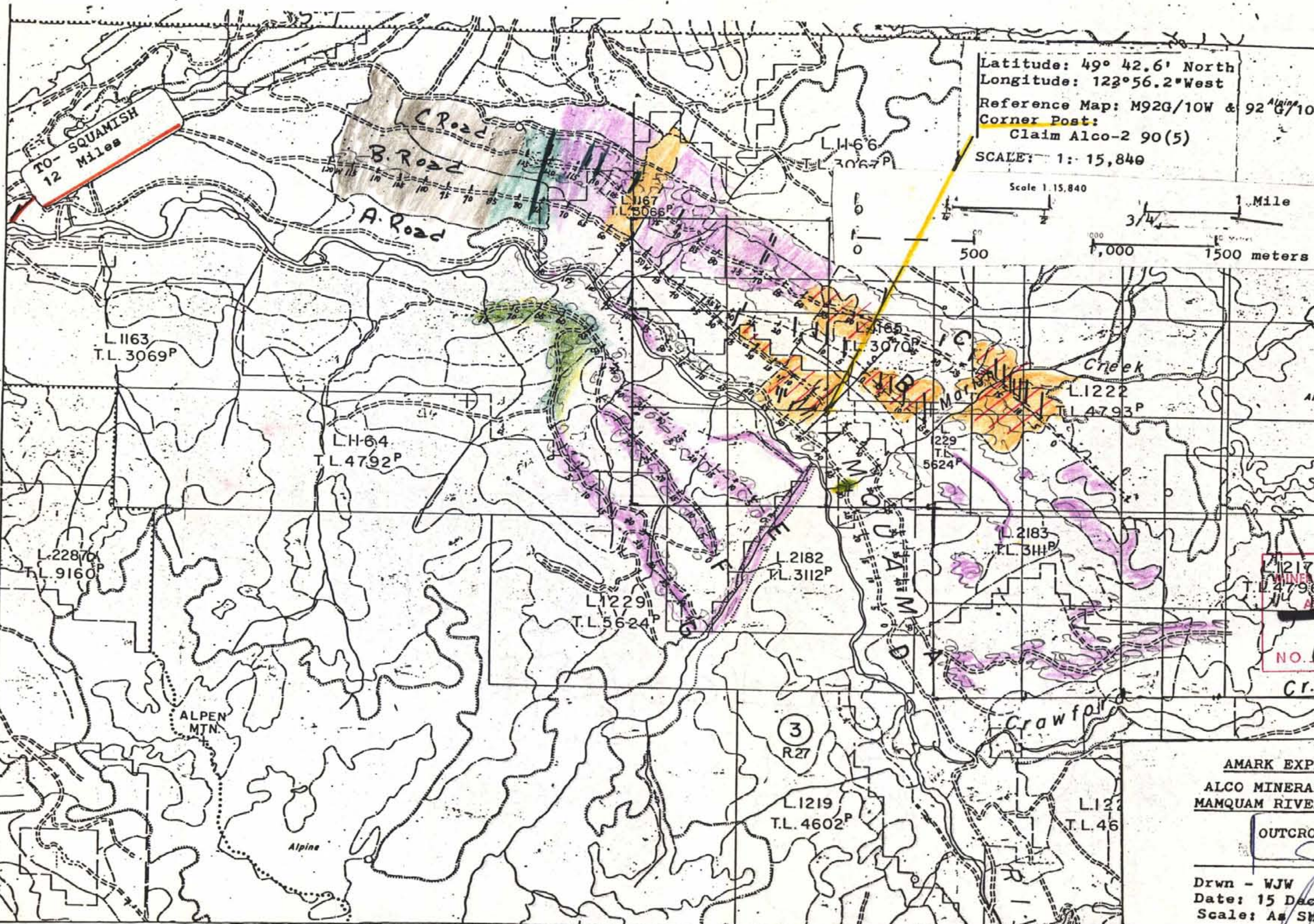
**ALCO MINERAL CLAIMS GROUP
SQUAMISH - MAMQUAM RIVER AREA**

GEOLOGY

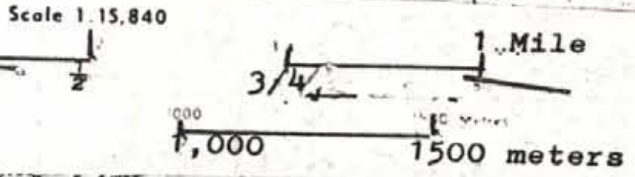
Scale: 1:253,440 1" = 4 Miles

FIGURE: 3

TO WEST SEE MAP 92-G-11



Latitude: 49° 42.6' North
 Longitude: 123° 56.2' West
 Reference Map: M92G/10W & 92 G/10 E
 Corner Post:
 Claim Alco-2 90(5)
 SCALE: 1: 15,840



- LEGEND**
- Quartz Diorite
 - Diorite, Gran Diorite and related
 - Andesite
 - Basalt
 - Tuffs and Volcanic - Sedimentary
 - Dykes
 - Faults - Shear-fracture zones
 - Py, Cp, Mo mineralization
 - Drill Holes

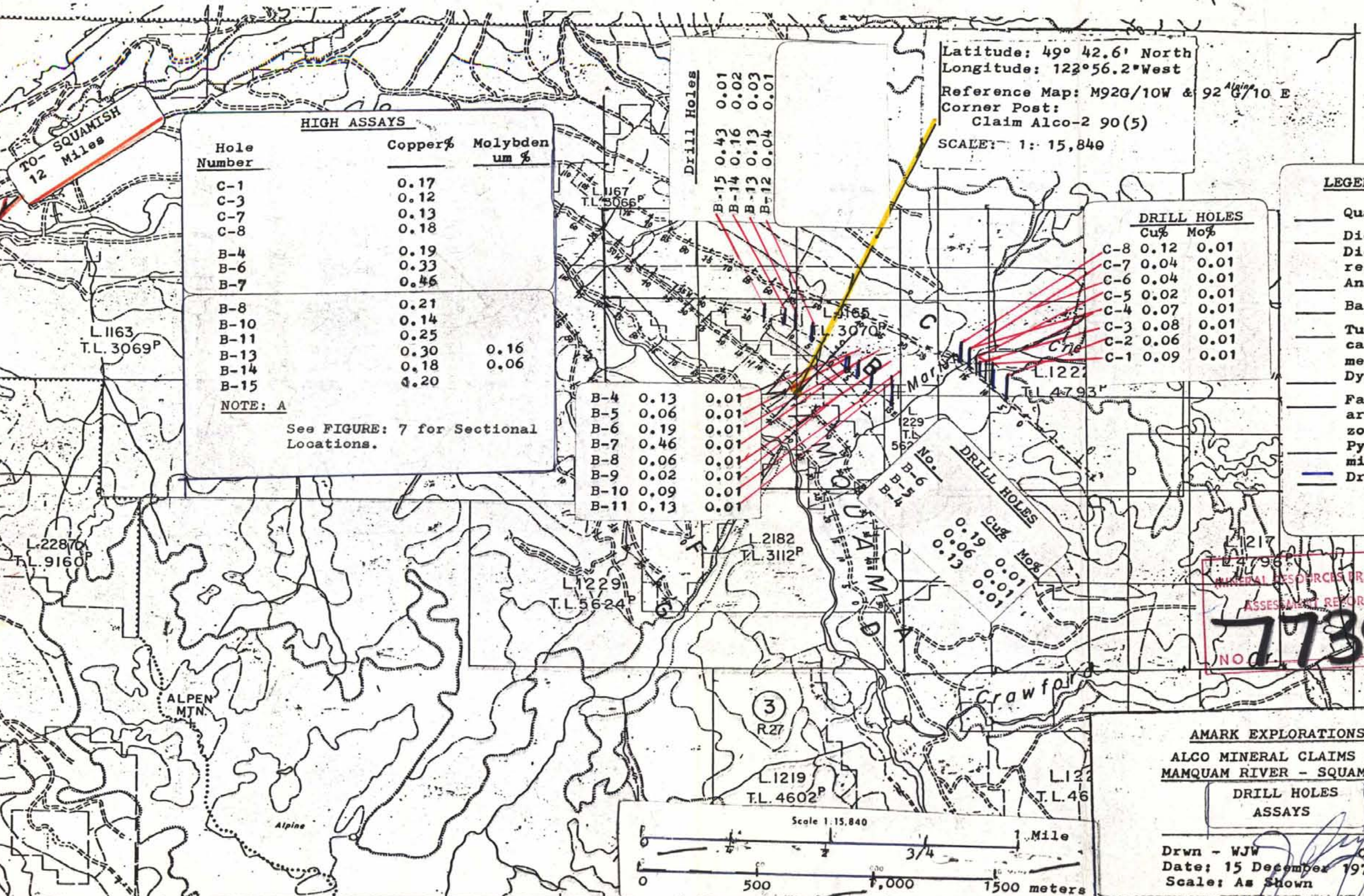
MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 NO. **7739**

AMARK EXPLORATIONS LTD
ALCO MINERAL CLAIMS GROUP
MAMQUAM RIVER - SQUAMISH AREA

OUTCROP-GEOLOGY

Drwn - WJW Chkd - WJW
 Date: 15 December 1979
 Scale: As Shown

FIGURE: 4.



HIGH ASSAYS

Hole Number	Copper%	Molybdenum %
C-1	0.17	
C-3	0.12	
C-7	0.13	
C-8	0.18	
B-4	0.19	
B-6	0.33	
B-7	0.46	
B-8	0.21	
B-10	0.14	
B-11	0.25	
B-13	0.30	0.16
B-14	0.18	0.06
B-15	4.20	

NOTE: A
 See FIGURE: 7 for Sectional Locations.

Drill Holes

B-15	0.43	0.01
B-14	0.16	0.02
B-13	0.13	0.03
B-12	0.04	0.01
B-4	0.13	0.01
B-5	0.06	0.01
B-6	0.19	0.01
B-7	0.46	0.01
B-8	0.06	0.01
B-9	0.02	0.01
B-10	0.09	0.01
B-11	0.13	0.01

DRILL HOLES

	Cu%	Mo%
C-8	0.12	0.01
C-7	0.04	0.01
C-6	0.04	0.01
C-5	0.02	0.01
C-4	0.07	0.01
C-3	0.08	0.01
C-2	0.06	0.01
C-1	0.09	0.01

- LEGEND**
- Quartz Diorite
 - Diorite, Gra
 - Diorite and related
 - Andesite
 - Basalt
 - Tuffs and Volcanic - Sedimentary
 - Dykes
 - Faults - Shear-fracture zones
 - Py, Cp, Mo mineralizati
 - Drill Holes

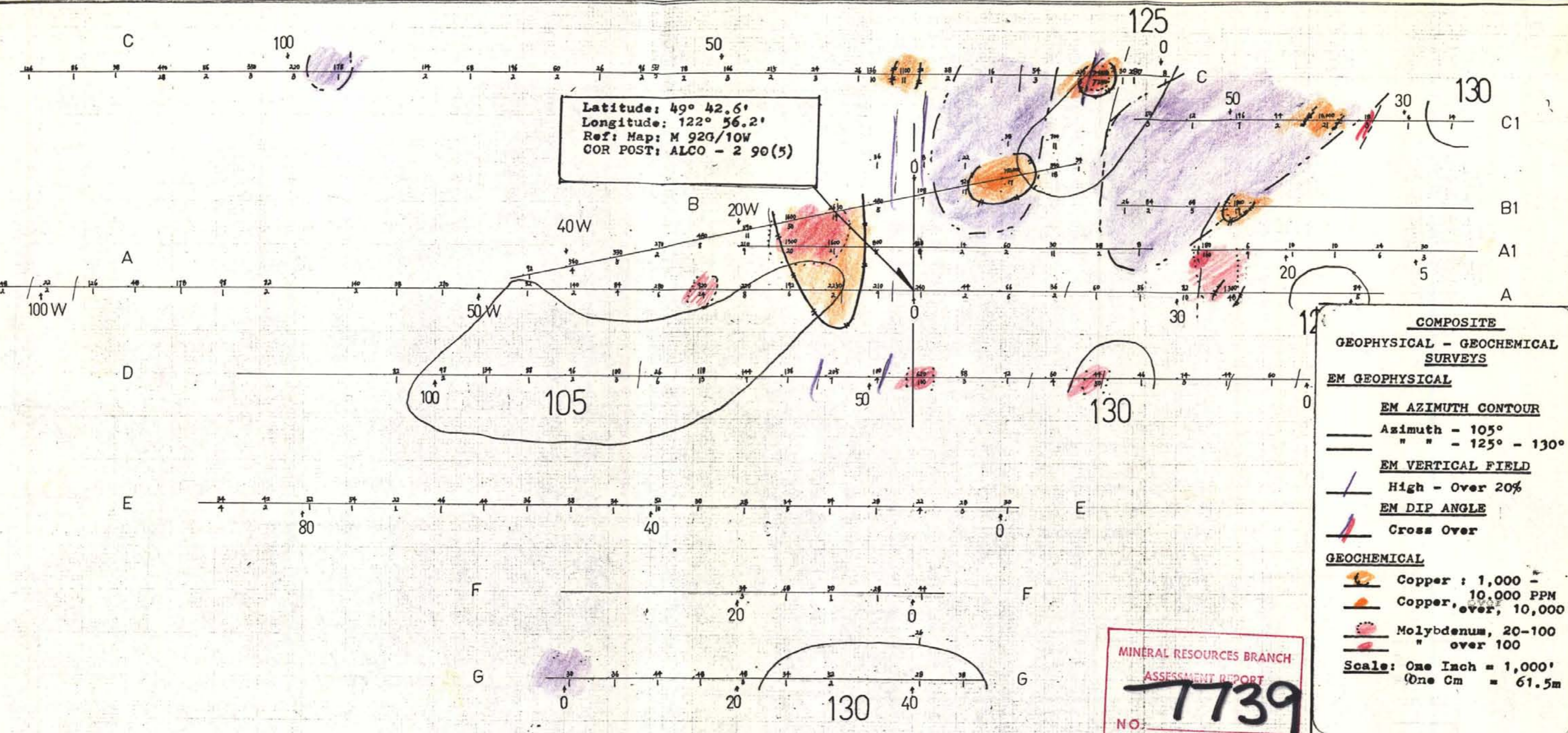
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AMARK EXPLORATIONS LTD
 ALCO MINERAL CLAIMS GROUP
 MAMQUAM RIVER - SQUAMISH AREA

DRILL HOLES
 ASSAYS

Drwn - WJW Chkd - WJW
 Date: 15 December 1979
 Scale: As Shown

FIGURE: 6 ..



Latitude: 49° 42.6'
 Longitude: 122° 56.2'
 Ref: Map: M 92G/10W
 COR POST: ALCO - 2 90(5)

**COMPOSITE
 GEOPHYSICAL - GEOCHEMICAL
 SURVEYS**

EM GEOPHYSICAL

EM AZIMUTH CONTOUR
 — Azimuth - 105°
 — " " - 125° - 130°

EM VERTICAL FIELD
 / High - Over 20%

EM DIP ANGLE
 \ Cross Over

GEOCHEMICAL

● Copper : 1,000 - 10,000 PPM
 ● Copper, over, 10,000
 ● Molybdenum, 20-100
 ● " over 100

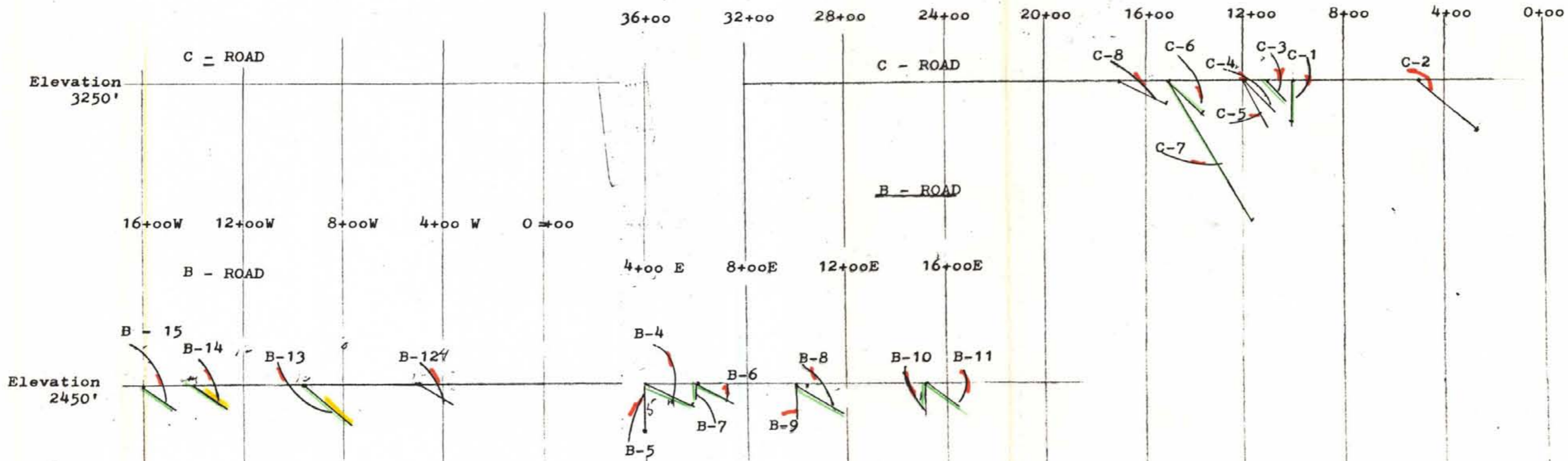
Scale: One Inch = 1,000'
 One Cm = 61.5m

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 ASSESSMENT REPORT
 NO. **7739**

REFERENCES:
 Geochemical - Annex -B
 Geophysical - Annex - C
 Geophysical Drvgs - Figs: 8, 9, and 10

AMARK RESOURCES LTD
 ALCO MINERAL CLAIMS GROUP
 COMPOSITE
 GEOPHYSICAL - GEOCHEMICAL
 SURVEYS
 Date: 15/7/79 Chkd: WJW
 Drwn: Wm. Cheng M. Se

FIG. 11
 FIGURE: 5



NOTE: A : See FIGURE: 5 for values

Copper:
 Molybdenum:

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 NO. **7739**

AMARK RESOURCES LTD.
 ALCO MINERAL CLAIMS GROUP
 DIAMOND-DRILL HOLE SECTIONS
 Date: 15/11/79 DRWN - WJW
 Scale: one Inch = 400 Feet
 Chkd: WJW

FIGURE: 7

[Handwritten signature]