

# 5183

COMINCO LTD.

EXPLORATION  
NTS 92-0/3

WESTERN DISTRICT

920/3E

British Columbia Government Agent  
**RECEIVED**

OCT 9 - 1974

DRILLING ASSESSMENT

LILLOET  
BRITISH COLUMBIA

LORN CLAIM GROUP

LORNA LAKE, BRITISH COLUMBIA  
CLINTON & LILLOET MINING DIVISIONS

OCTOBER 4, 1974

A.C. FREEZE JR.

PERIOD OF WORK

April 1st, 1974 TO September 20th, 1974

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 5183	MAP.....

STATEMENT OF QUALIFICATIONS

I, A. C. Freeze Jr. with business address at 2300-200 Granville Square, Vancouver 2, British Columbia, do hereby certify that I have supervised the diamond drill programme and have assessed and interpreted the data resulting from said programme on the Lorn 48 and 64 mineral claims.

I also certify that:

1. I am a graduate of the University of New Brunswick, B.Sc. Geology,
2. I am presently completing a M.Sc. degree in Geology from the University of Manitoba .

Respectfully submitted: *A.C. Freeze Jr.*  
A.C. FREEZE JR.

Vancouver, British Columbia

A. C. Freeze Jr. was responsible for supervising the diamond drill programme on claims Lorn 48 and 64. Mr. Freeze received his B.Sc. degree in geology from the University of New Brunswick and expects to receive his M.Sc. degree from the University of Manitoba in 1975, and I consider him a competent geologist.

Signed by: *J.M. Allen*  
DR. J.M. ALLEN, P.ENG.

MAPS

- #1 Claim Location map
- #2 Diamond Drill plan

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A DIAMOND DRILL PROGRAMME  
CARRIED OUT ON MINERAL CLAIMS LORN 48 AND 64  
Located in the Clinton and Lillooet Mining  
Divisions of the Province of British Columbia  
More Particularly NTS 92-0/3

A F F A D A V I T

I, A.C. FREEZE JR. OF THE CITY OF VANCOUVER IN THE PROVINCE OF  
BRITISH COLUMBIA, MAKE OATH AND SAY:

1. THAT I AM EMPLOYED AS A GEOLOGIST BY COMINCO LTD., AND  
AS SUCH HAVE A PERSONAL KNOWLEDGE OF THE FACTS TO WHICH  
I HEREINAFTER DEPOSE;
2. THAT ANNEXED HERETO AND MARKED AS "EXHIBIT A" TO THIS MY  
AFFIDAVIT IS A TRUE COPY OF EXPENDITURES ON A DIAMOND  
DRILL PROGRAMME CARRIED OUT ON MINERAL CLAIMS LORN 48 AND  
64;
3. THAT THE SAID EXPENDITURES WERE INCURRED BETWEEN THE 1ST  
DAY OF APRIL 1974, AND THE 20TH DAY OF SEPTEMBER 1974  
FOR THE PURPOSE OF MINERAL EXPLORATION ON THE ABOVE NOTED  
CLAIMS.

Sworn Before Me at the City )  
of Vancouver in the Province )  
of British Columbia this )  
8<sup>th</sup> day of October, )  
1974. )

M. E. Brown )  
A NOTARY PUBLIC IN AND FOR )  
THE PROVINCE OF BRITISH )  
COLUMBIA. )

A.C. Freeze Jr.  
A.C. FREEZE JR.

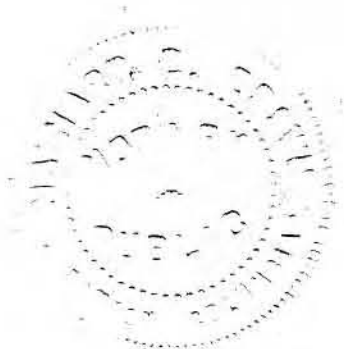


EXHIBIT "A"

DIAMOND DRILLING PERFORMED

ON THE

LORN 1-74 AND 2-74 CLAIM GROUPS

Situate At

51° 6' Latitude  
123° 10' Longitude

NTS 92-0/3

Salaries:	A. C. Freeze Jr.	
	32 days office preparation @\$65.00/day	\$ 1,950.00
	30 days field time (July 15-August 13) @\$65.00/day	2,080.00
	Ingo Jackisch	
	19 days in field (July 15-26) (August 3-10) @\$50.00/day	950.00
	Dr. J.M. Allen (supervision)	
	25 days @\$100.00/day	2,500.00
Camp Costs:	Food, Equipment, Expenses	995.00
Drill Costs:	As per receipts	23,100.72
Transportation:		
	(A) Truck Rental	814.86
	(B) Helicopter Charter	12,088.19
	TOTAL	<u>\$44,478.77</u>

TOTAL ASSESSMENT REQUIRED FOR 213 CLAIM YEARS = \$42,600.00.

Signed: \_\_\_\_\_

A. C. Freeze Jr.

THIS IS EXHIBIT "A" TO THE STATUTORY DECLARATION OF EXPENDITURES RELATING TO  
THE DIAMOND DRILL PROGRAMME DECLARED BEFORE ME ON THE 8<sup>th</sup> DAY OF OCTOBER  
1974, A.D.

M. E. Brown  
A NOTARY PUBLIC IN AND FOR THE  
PROVINCE OF BRITISH COLUMBIA


DRILL DATA FOR DIAMOND DRILL HOLES

L.G. #1 THROUGH L.G. #5


<u>HOLE</u>	<u>LOCATION</u>	<u>ELEVATION</u>	<u>INCLINATION</u>	<u>BEARING</u>	<u>DEPTH</u>	<u>CORE DIAMETER</u>
L.G. #1	Claim #48	7500'	-90°	--	260'	BQ
L.G. #2	Claim #48	7500'	-50°	190° (South)	128'	BQ
L.G. #3	Claim #64	8100'	-90°	--	438'	BQ
L.G. #4	Claim #64	8100'	-45°	115° (East)	177'	BQ
L.G. #5	Claim #64	8100'	-50°	295° (West)	487'	BQ

All 1490' of core for the five drill holes is located on the drill platform used for holes 3 through 5.

Signed by: \_\_\_\_\_

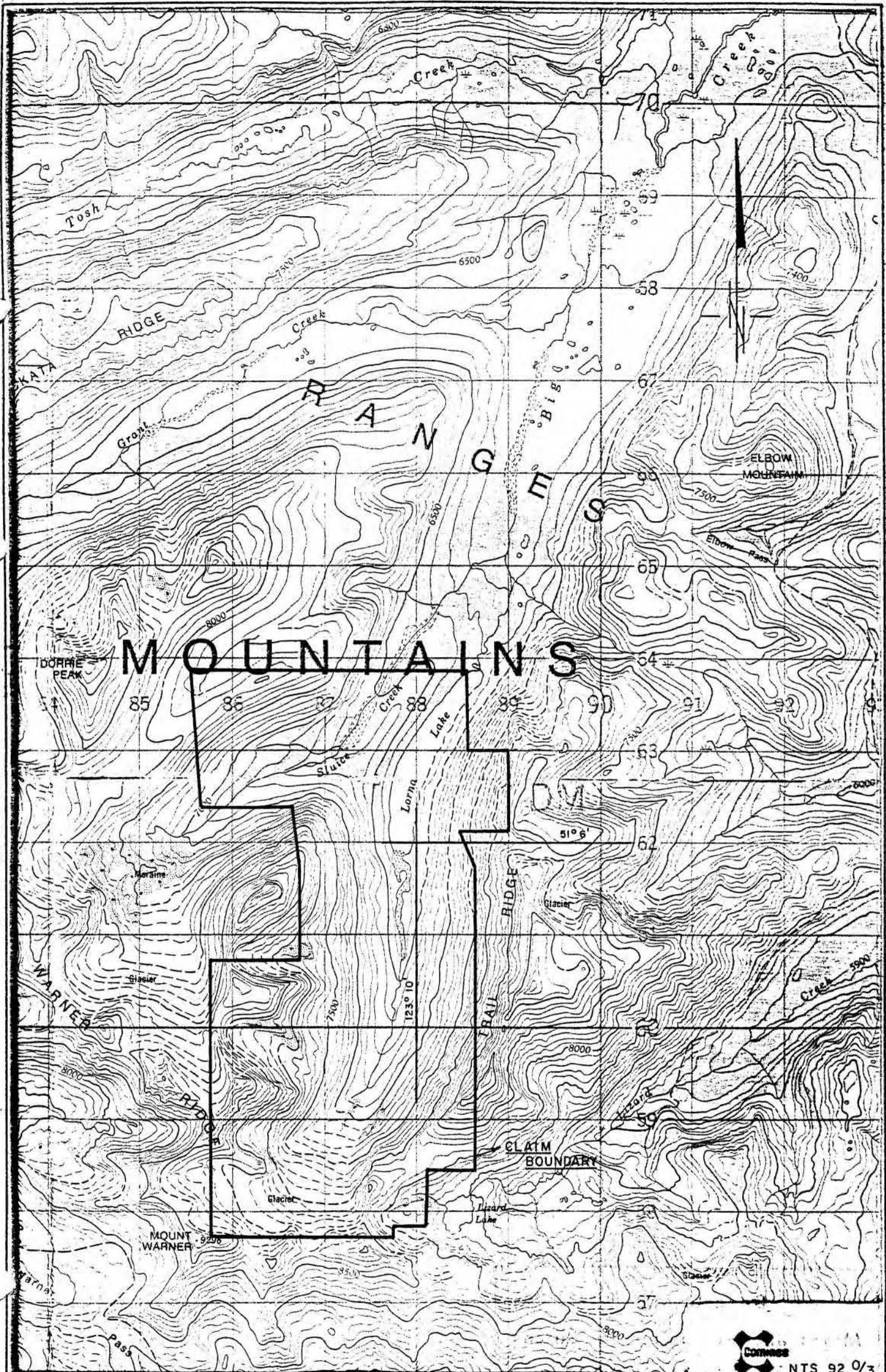
  
A. C. FREEZE JR.

Endorsed by: \_\_\_\_\_

  
D. W. HEDDLE, P.ENG.

Approved for  
Release by: \_\_\_\_\_

  
W. T. IRVINE, P.ENG.



Corning NTS 92 0/3

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

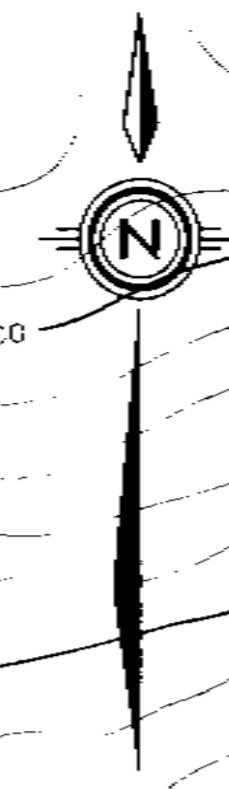
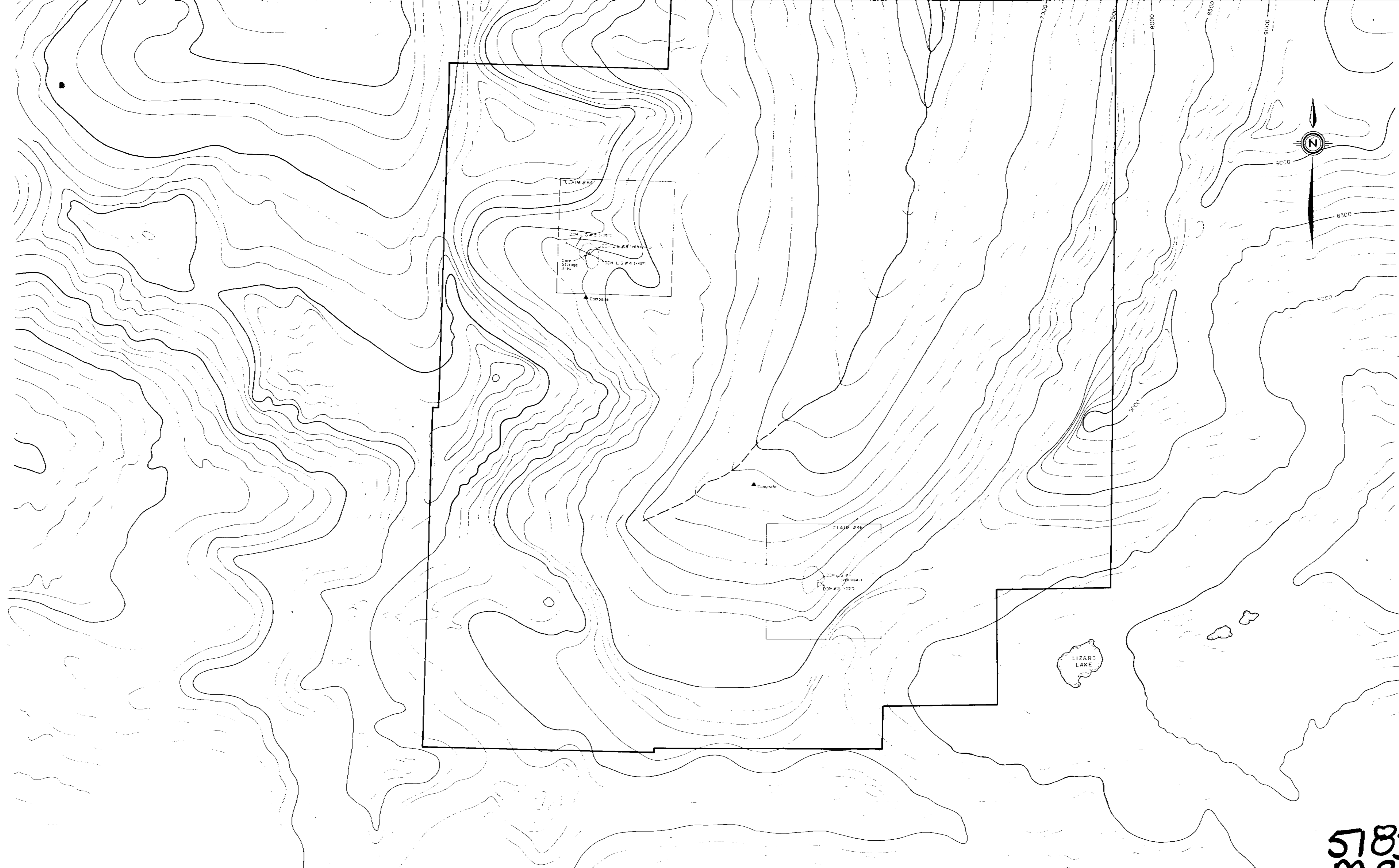
LORN PROPERTY  
CLAIM LOCATION MAP

ST88  
M1

Scale: 1: 50,000

Date: SEPT. 17/74

Plate:



5783  
M2

LORN GROUP			92 0/3
DATE	BY	PROJECT	
DIAMOND DRILL PLAN			
			SEP 1974

## Drill Hole Record



Property	LORN GROUP	District	Clinton & Lillooet Mining Divisions	Hole No.	L.G. # 1
Commenced	July 19/74	Location	NTS 92 0/3 1 1/2 mi/S Lorna Lk.	Tests at	NIL
Completed	July 24/74	Core Size	BQ	Corr. Dip	NIL
Co-ordinates				True Brg.	---
Objective	Test Mineralized Dykes at Depth.			% Recov.	95%
				Date	

Footage From	To	Description	Sample No.	Length	Analysis
0-4'		Broken ground -dark grey hornfelsed andesite. -0.2% disseminated pyrite with trace chalcopyrite.			
4-12'		Hornfelsed andesite -fracture controlled chalcopyrite mineralization associated with pyrite and trace pyrrhotite. -mineralization associated with quartz, chlorite, epidote alteration. -andesite locally is highly silicified. -total sulphide through section = 0.5% combined.			
12-14'6"		Siliceous chloritized andesite -main sulphide phase = pyrite with trace chalcopyrite associated with epidote.			
14'6"-17'3"		Hybrid contact andesite -highly leached with pyrite and chalcopyrite associated with high chloritization and lesser epidote alteration on fractures.			
17'3"-27'3"		Quartz/eye rhyolite dyke -High Fe stain resulting from leached pyrite, pyrrhotite and chalcopyrite mineralization. -moderately intense fracturing			
	18'3"-20'	Sulphides contained in blebs and dendritic fractures			
	20'-23'	Total sulphide leaching. -coarse malachite associated with post mineralization fractures			

Claim 48

T Brg. --

Collar Dip -90°

Elev. 7500'

Length 260'

Hole No. 1

Sheet 1



## Drill Hole Record



Property	District	Hole No.	D.D.H. L.G. #1
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From	To	Description	Sample No.	Length	Analysis						
					Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	
		-minor Fe stain due to leaching of sulphides									
	23'-27'3"	-Extensive fracturing with total leaching of sulphides									
		-minor chlorite on fractures.									
	27'3"-28'	Hybrid contact andesite -chalcopyrite associated with high iron sphalerite on fractures with epidote calcite and chlorite.									
		-malachite associated.									
	28-29'	Hornfelsed andesite -silicified locally due to crosscutting quartz veins .25% combined chalcopyrite and pyrite associated with quartz veins.									
	29'-34'10"	Quartz eye rhyolite dyke									
	29'-30'	-0.3% chalcopyrite with secondary covellite associated with chlorite on fractures.									
	30'-34'10"	-fracture controlled chlorite alteration increasing associated with minor epidote									
		-sulphide leaching on fractures.									
		-Tr. chalcopyrite and pyrite through section									
	34'10"-36'6"	Hornfelsed andesite -crude biotite foliation developed									
		-fine dustings of chalcopyrite and pyrite mineralization with									

## Drill Hole Record



Property	District	Hole No.	D.D.H. L.G. #1
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From	To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
		malachite associated with chlorite on fractures								
	36'4"-36'6"	-Highly chloritized andesite								
		-0.6% combined pyrite and chalcopyrite mineralization.								
		-minor malachite on fractures.								
	36'6"-40'6"	Dark Black Micaceous Hornfelsed Andesite								
		-chalcopyrite and pyrite on fractures associated with quartz								
		veins; quartz chlorite epidote veins, and as free phases disse-								
		minated and fracture controlled.								
		-main sulphide phase is chalcopyrite with lesser pyrite and								
		trace pyrrhotite.								
		-pyrite occasionally occurs as coarse euhedral twinned grains.								
	40'6"-42'6"	Dark Black Locally Highly Silicified Andesite								
		-total combined chalcopyrite and pyrite = 0.1% through section								
		-locally andesite is micro dioritized with visible grains of								
		quartz and plagioclase feldspar.								
	42'6"-46' 5"	Rhyolite Dyke								
		-minor fracture controlled pyrite mineralization with trace								
		chalcopyrite with epidote.								
		-trace disseminated chalcopyrite and pyrite								
		-dyke is peppered with disseminated specs of chloritized								



## Drill Hole Record



Property	District	Hole No.	D.D.H. L.G. #1
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage		Description	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
From	To										
56'8"	57'	Siliceous Epidotized Andesite -chalcopyrite and pyrite associated with chlorite on fractures.									
57'	58'	Hornfelsed Andesite -blocky ground with almost total leaching. -chalcopyrite associated with chlorite over narrow unleached widths.									
58'	71'6"	Hornfelsed Andesite -secondary fracturing with associated sulphides is minimal. -trace chalcopyrite and pyrite associated with quartz chlorite veins. -approximately 50% leaching of sulphides through this section. -local zones depict micro dioritic texture with visible grains of quartz and plagioclase feldspar. -pyrite most often occurs as coarse euhedral grains with chalcopyrite associated as fine dustings.									
71'6"	73'	Siliceous Chloritic Hornfelsed Andesite -fracture controlled pyrite and trace chalcopyrite associated with chlorite.									
73'	73'6"	Quartz Eye Rhyolite Dyke -.5% combined chalcopyrite and pyrite on fractures as free phase.									
73'6"	74'	Siliceous Biotitized Andesite - > 1% combined pyrite chalcopyrite and pyrrhotite disseminated									



## Drill Hole Record



Property	District	Hole No.	D.D.H. L.G. #1
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From	To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
90'-111'6"		Quartz Eye Rhyolite Dyke								
		-highly fractured and leached								
	91-97'	-fracturing is less intense								
		-trace specs of disseminated pyrite and chalcopyrite								
		-evidence of leached chalcopyrite and pyrite on fractures.								
	97-107'6"	-peppering of disseminated specs of chloritized biotite								
		-total sulphide leaching								
	107'6"-111'6"	-0.3% chalcopyrite and associated pyrite with chlorite and epidote on fractures								
		-fracturing and leaching negligible								
111'6"-115'		Siliceous Hornfelsed Andesite								
		-fracture controlled pyrite, pyrrhotite and chalcopyrite as free phases and associated with quartz and quartz chlorite veins.								
115'-121'		Intermixed Fine Grained and Pseudo Porphyritic Mottled Andesite								
		-minor chalcopyrite, pyrite and pyrrhotite associated with quartz chlorite on fractures								
		-@118' secondary biotite fracture filling with associated chalcopyrite and pyrite								



# Drill Hole Record



Property	District	Hole No.	D.D.H.	L.G.#	1
Commenced	Location	Tests at	Hor. Comp.		
Completed	Core Size	Corr. Dip	Vert. Comp.		
Co-ordinates	True Brg.		Logged by		
Objective	% Recov.		Date		

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No.

Footage From	To	Description	Sample No.	Length	Analysis
		-crude foliation developed in micaceous section			
157'	179'	Rubbly Highly Fractured Intermixed Fine Grained Green And Mottled Micaceous Andesite -minor calcite epidote stringers through section -local seams of coarse barren chlorite and secondary biotite trace chalcopyrite and pyrite @ 159'6", 160'6", 168', 168'6", 175', 177', 179' trace molybdenite on epidote @ 169'6", 174'			
179'	197'	Fine Grained Mainly Barren Andesite -trace chalcopyrite and pyrite associated with minor and epidote @ 179'6", 180', 181', 184'-184'10", 191', 193', 196' -barren calcite veins at 180' & 190'			
197'	201'	Rubbly Andesite -8" ground core = total recovery -trace chalcopyrite and pyrite associated with chlorite			
201'	202'	Mud Fault -minor malachite stain @ 201'			
202'	203'	Ground Rubbly Chloritic Andesite -5% barren calcite on fractures			



# Drill Hole Record



Property	District	Hole No.	D.D.H. L.G. # 1
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No.

Footage From To	Description	Sample No.	Length	Analysis
203'-212'6"	Friable Highly Leached Micaceous Andesite -barren dendritic calcite veins throughout section			
212'6"-223'	Alternating Fine Grained Grey Andesite With Mottled Grey Andesite -trace pyrite and chalcopyrite associated with quartz chlorite fracture fillings			
222-223'	-0.1% combined chalcopyrite and pyrite			
223'-238'	Highly Weathered Light Green Andesite -barren dendritic calcite stringers throughout section -high solution weathering associated with precipitation of calcite -occasional seams of coarse chloritized biotite			
227'-228'	-trace chalcopyrite, pyrite and malachite associated with chlorite			
238'-251'6"	Fine Grained Grey Green Andesite -weathering less intense with local silicified sections -trace pyrite through section			
@248'	-4" stringer of partially chloritized secondary biotite with trace chalcopyrite associated -minor calcite veining			
251'6"-253'	Contact Hornfelsed Andesite -quartz veining with associated pyrite			

# Drill Hole Record



Property

District

Hole No. D.D.H. L.G. #1

Commenced

Location

Tests at

Completed

Core Size

Hor. Comp.

Co-ordinates

Corr. Dip

Vert. Comp.

Objective

True Brg.

Logged by

% Recov.

Date

Footage

From To

Description

Sample No.

Length

Analysis

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

252'-253'

-highly siliceous bleached andesite

253'-260'

Rhyolite Dyke

-quartz, quartz chlorite, biotite and calcite veins crosscut  
-trace chalcopyrite disseminated and associated with quartz  
chlorite seams through section

END OF HOLE

## Drill Hole Record



Property LORN GROUP Clinton and Lillooet District Mining Divisions Hole No. D.D.H. L.G.#2

Commenced July 22/1974 Location NTS 920/3 1 1/2 miles Tests at ----- Hor. Comp. 80'

Completed July 23/1974 Core Size south of Lorna Lake BQ Corr. Dip ----- Vert. Comp. 100'

Co-ordinates True Brg. 190° South Logged by A. C. Freeze Jr.

Objective Angle hole to test mineralized dykes % Recov. 90% Date

Footage From To	Description	Sample No.	Length	Analysis
0-1'	Dark grey highly siliceous hornfelsed andesite -broken ground -0.5% combined chalcopyrite, pyrite and pyrrhotite associated with quartz chlorite			
1-1'6"	Hybridized contact andesite -extreme fracturing with almost total leaching of sulphides			
1'6"-6'10"	Rhyolite dyke -extensive fracture controlled quartz chlorite-epidote alteration > 1% total sulphides chalcopyrite, pyrite and pyrrhotite associated on fractures with chlorite epidote -evidence of partial leaching of sulphides on fractures			
6'10"-9'10"	Dark siliceous chloritized hybrid andesite - > 1% chalcopyrite over narrow widths through section -minor pyrite associated			
9'10"-11'	Gradational contact to chloritized rhyolite dyke -minor fracture controlled epidote with chalcopyrite			
11'-15'	Rhyolite dyke -extensive fracture controlled quartz chlorite epidote alteration total sulphides exceed 1% with chalcopyrite > 0.5%			

Claim 48

T Brg. 190°

Collar Dip -50°

Elev. 7500'

Length 128'

Hole No. Sheet

L.G.#2

## Drill Hole Record



Property	District	Hole No. D.D.H. L.G.# 2
Commenced	Location	Tests at
Completed	Core Size	Hor. Comp.
Co-ordinates		Vert. Comp.
Objective		Logged by
		Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

2

Footage From To	Description	Sample No.	Length	Analysis
	-sulphides have stained the rhyolite a grey coloration			
13'-15'	-pyrrhotite replacing pyrite as main sulphide phase			
	@14' malachite stain associated with chalcopryrite			
15'-23'	Gradation from rhyolite -quartz eye rhyolite dyke			
	-extensive leaching of fracture controlled sulphides			
	-chlorite and epidote - main alteration			
	@20' minor malachite stain			
	- > 0.5% chalcopryrite and pyrite associated mainly with chlorite			
	-local micaceous sections			
23'-24'6"	Gradation from quartz eye rhyolite -microcrystalline biotite diorite			
	-main sulphides leached with secondary malachite and azurite			
	precipitated on fractures			
24'6"-32'	Siliceous biotite micro diorite			
	-disseminated and fracture controlled chalcopryrite, pyrite and			
	pyrrhotite mineralization			
	-fracture controlled sulphides associated with quartz, chlorite			
	biotite			
	-only minor leaching of sulphides			

## Drill Hole Record



Property	District	Hole No. D.D.H. L.G. #2	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage		Description	Sample No.	Length	Analysis						
From	To				Claim	T Brg.	Collar Dip	Elev.	Length	Note No.	
32'	38'6"	Massive barren biotite micro diorite -chloritization on fractures displaying minor evidence of leached sulphides -fine grained crystalline hornblende through section									
38'6"	43'6"	Fine grained micro diorite -fresh biotite and plagioclase feldspar with visible twinning in feldspar -locally along fractures, biotite is altered to chlorite -.1 disseminated chalcopryrite through section									
43'6"	44'2"	Chilled border facies hybrid andesite -barren									
44'2"	47'	Hybridized quartz eye rhyolite dyke -coarse fracture controlled chlorite development -local pods of coarse biotite, minor epidote on fractures -total leaching of sulphides									
47'	63'6"	Rhyolite dyke -no quartz eyes -fracture controlled chalcopryrite, pyrite and trace pyrrhotite associated mainly with chlorite and lesser epidote									

# Drill Hole Record



Property	District	Hole No.	D.D.E. L.G.#2
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From To	Description	Sample No.	Length	Analysis	Column	T Brg.	Collar Dip	Elev.	Length	Hole No.
	-pyrite and trace chalcopyrite occasionally on fractures as free phases									
58-63'6"	-increased post mineralization fracturing and leaching -chalcopyrite and pyrite visible in fresher sections									
63'6"-70'	Silicified micaceous andesite -crude foliation developed between siliceous and chloritized micaceous sections -minor slippage along biotite folia -quartz chlorite veins crosscut at random with associated pyrite and trace chalcopyrite through section									
70'-71'6"	Rubby micaceous andesite -highly fractured and leached									
71'6"-130'	Rhyolite dyke -post mineralization fracturing through section is extreme with almost total leaching of sulphides -locally micaceous with minor epidote and chlorite mineralization on fractures -trace malachite stain visible through section -279'8" trace fracture controlled chalcopyrite pyrite and malachite									



## Drill Hole Record



Property LORN GROUP District CLINTON & LILLOOET M.D. Hole No. D.D.H. L.G.# 3  
 Commenced July 27/74 Location NTS 920/3 1.15 mi S.W. Tests at --- Hor. Comp. ---  
 Completed July 30/74 Core Size Lorna Lake BQ Corr. Dip --- Vert. Comp. 438'  
 Co-ordinates True Brg. --- Logged by A.C. Freeze Jr.  
 Objective To Test Mineralized Andesite At Depth % Recov. > 95% Date

Claim 64

T Brg. --

Collar Dip -90°

Elev. 8150'

Length 438'

Hole No.

Sheet

L.G.#3

1

Footage		Description	Sample No.	Length	Analysis				
From	To								
0'	8'	Highly fractured and leached rubbly andesite -minor hornfelsing evidenced by the development of biotite rich folia - locally discontinuous clots of sub aligned biotite -quartz chlorite epidote veins crosscut with minor associated chalcopyrite pyrite and pyrrhotite							
8'	18'	Light grey-green andesite -highly fractured with high sulphide leaching -minor fracture controlled chalcopyrite and molybdenite on quartz chlorite veins with chalcopyrite at vein contacts with molybdenite in the middle of the veins -pyrite and pyrrhotite also associated with chalcopyrite on quartz veins -pyrite and pyrrhotite also occur as disseminated phases locally with total sulphide content exceeding 1%							
18'	24'	Highly fractured and leached grey green andesite -mottled biotite rich zones interspersed throughout section -total sulphide content exceeds 1% with pyrrhotite, pyrite and chalcopyrite occurring as disseminations and fracture fillings -fracture controlled sulphides occur associated with milky quartz and quartz chlorite							





Property	District	Hole No.	D.D.H. L.G. # 3
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
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Footage		Description	Sample No.	Length	Analysis					
From	To									
		-chalcopyrite also occurs as exolved blebs on pyrrhotite								
24'	38'5"	Light grey green mottled chloritic andesite								
		-chlorite forms as irregular mottled patches and fracture seams encasing biotite and sulphides								
		-milky quartz veins through section up to 1/3" in thickness contain molybdenite, chalcopyrite, magnetite, native copper, pyrite and pyrrhotite								
		-minor epidote magnetite stringers with associated chalcopyrite								
		-highly chloritic areas correspond with zones of high sulphide content								
	36'	38'5"	-3/4" partially leached quartz vein with native copper, molybdenite and chalcopyrite							
		-fracture controlled epidote predates quartz vein with trace associated magnetite and chalcopyrite								
38'5"	48'	Epidotized andesite								
		-epidotization is mainly fracture controlled with associated magnetite and chalcopyrite								
		-locally zones of coarse chloritization with associated pyrrhotite, pyrite and chalcopyrite								
		-epidote depletes towards end of section								
	46'	47'	-chalcopyrite, pyrite, sphalerite, magnetite and secondary							



# Drill Hole Record



Property	District	Hole No. D.D.H. L.G.#3	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No.

Sheet  
4

Footage From To	Description	Sample No.	Length	Analysis					
	-main alteration phase is chlorite with lesser quartz epidote -minor chalcopyrite with epidote magnetite								
78'-88'6"	Light grey green mottled chloritic andesite -total sulphide content through section exceeds 2% -pyrite pyrrhotite and chalcopyrite associated as free phase and with quartz chlorite epidote								
79-81'	-quartz vein with associated chalcopyrite, magnetite, molybdenite, pyrite and pyrrhotite -quartz veining increases towards end of section with subtle depletion of sulphides								
88'6"-94'	Alternating light green chloritic and grey brown mottled biotite andesite -total sulphides less than 1% -trace chalcopyrite as dusting on pyrite and pyrrhotite -minor quartz chlorite seams with trace chalcopyrite								
94'-109'	Siliceous chloritic andesite -total sulphide content exceeds 1% -fracture controlled and disseminated pyrite and pyrrhotite with minor associated chalcopyrite								

# Drill Hole Record



Property	District	Hole No. D.D.H. L.G. # 3
Commenced	Location	Tests at
Completed	Core Size	Hor. Comp.
Co-ordinates		Vert. Comp.
Objective		Logged by
		Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
-------	--------	------------	-------	--------	----------

Sheet 5

Footage		Description	Sample No.	Length	Analysis					
From	To									
		-hairline magnetite seams with minor pyrite, pyrrhotite and chalcopyrite								
		-fracture density is high with associated chlorite varying from hairline fractures to seams 1" thick								
109'	110'	Felsite dyke -minor chloritization with evidence of leached chalcopyrite								
110'	115'	Light grey brown mottled andesite								
		-minor disseminated and fracture controlled epidote mineralization with associated chalcopyrite, pyrite and pyrrhotite								
		-trace chalcopyrite on fractures associated with secondary biotite								
	112'	113'	-barren calcite as fracture fillings							
		-minor pyrite and pyrrhotite throughout as fracture controlled and disseminated phases								
115'	126'	Siliceous chloritic mottled andesite								
		-total sulphide content through section exceeds 2%								
		-minor fracture controlled magnetite through section								
		-trace molybdenum associated with quartz biotite seams								
		-chalcopyrite pyrrhotite and pyrite associated with quartz chlorite fractures								

# Drill Hole Record



Property	District	Hole No.	D.D.H. L.G. #3
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No.

Footage From To	Description	Sample No.	Length	Analysis					
126'-127'6"	Highly leached rubbly andesite -indications of leached chalcopyrite and pyrite on fractures								
127'6"-139'	Highly siliceous chloritized andesite -total sulphide content through section varies between 0.5% and 1%								
	131'-134' -molybdenite associated with quartz biotite chlorite seams								
	-minor fracture controlled epidote with trace associated chalcopyrite								
	@136'-138' -trace sphalerite associated with calcite epidote vein								
	-trace chalcopyrite associated with molybdenite and pyrite on quartz epidote fractures over the last two feet								
139'-139'4"	Quartz eye felsite dyke -minor magnetite with trace chalcopyrite								
139'4"-156'	Siliceous chloritized andesite -total sulphide content through section exceeds 2%								
	-pyrrhotite pyrite and minor chalcopyrite as disseminations and fracture controlled associated with quartz chlorite and as free phases								
	-trace molybdenum associated with pyrite and chalcopyrite on milky quartz grains								
	-blebs of pyrrhotite around chalcopyrite nuclei throughout section								



Property	District	Hole No. D.D.H. L.G.# 3	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
						7

Footage From To	Description	Sample No.	Length	Analysis						
147'5"-148'	-zone of massive epidote and magnetite with associated chalcopyrite and molybdenite throughout									
@147'6"	-1/2 cm thick seam of molybdenite									
154'-156'	-high density of quartz epidote veining with chalcopyrite and molybdenite associated									
	-biotite generally is fresher in appearance throughout section									
156'-168'	Alternating brown micaceous and green chloritic mottled andesite									
	-total sulphide content through section exceeds 2%									
	-fracture controlled and disseminated pyrite, pyrrhotite, chalcopyrite, molybdenite and magnetite throughout									
	-grains of porphyritic hornblende locally through section									
	-trace molybdenite found throughout section as dustings on chlorite epidote and quartz veins									
168'-172'	Chloritized hornblende porphyry andesite									
	-trace molybdenite associated with quartz epidote fractures									
	-total sulphide content through section = 0.5%									
	-main sulphide phase is pyrrhotite occurring on fractures and as disseminations									
172'-176'	Grey quartz micro porphyry andesite									

# Drill Hole Record



Property	District	Hole No. D.D.H. L.G. # 3	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No. 8  
Sheet

Footage		Description	Sample No.	Length	Analysis					
From	To									
		--chalcopyrite and molybdenite associated with quartz chlorite and epidote on fractures								
176'	181'6"	Dioritized andesite -high fracture density with chalcopyrite, pyrite and pyrrhotite associated with quartz chlorite and epidote fracture fillings - minor malachite, azurite & chrysocolla associated with highly epidotized sections. -trace native copper on leached quartz vein								
181'6"	188'	Siliceous chloritized andesite -minor magnetite seams fringed by chlorite epidote with minor contained chalcopyrite -quartz biotite veins through section with pyrite, pyrrhotite minor chalcopyrite and trace molybdenite -blebs of pyrrhotite surrounding chalcopyrite nuclei -trace chalcopyrite on fractures as free phase associated with pyrite and pyrrhotite								
188'	189'6"	Chloritized magnetized andesite -molybdenite associated with seams of magnetite with chalcopyrite localized in chloritic zones peripheral to magnetite								



Property	District	Hole No. D.D.H. L.G. #3		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
Commenced	Location	Tests at	Hor. Comp.						
Completed	Core Size	Corr. Dip	Vert. Comp.						
Co-ordinates		True Brg.	Logged by						
Objective		% Recov.	Date						
Footage From To	Description	Sample No.	Length	Analysis					
189'6"-202'	Siliceous green chloritized andesite -fracture controlled and disseminated pyrite, pyrrhotite and chalcopyrite -minor milky quartz veins with trace associated molybdenite								
202'-203'	Diorite dyke -trace disseminated magnetite -contact zones are sharp and unaltered								
203'-226'	Grey green siliceous andesite -total sulphide content through section exceeds 2% -fracture controlled and disseminated pyrite, pyrrhotite and minor chalcopyrite associated mainly with chlorite and lesser quartz								
	206'-207' -seams 1/8" - 1" thick of micro diorite with trace associated molybdenite -minor disseminated pyrrhotite on chalcopyrite nuclei								
	@215' -1/2" quartz-plagioclase feldspar vein with contained molybdenite and chalcopyrite-pyrrhotite on fringes								
	218'-226' -andesite becoming dioritized with visible phenocrysts of hornblende, quartz and biotite								
226'-227'	Epidotized andesite -total sulphide content less than 0.5%								





Property	District	Hole No.	D.D.H. L.G.# 3
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
						10

Footage		Description	Sample No.	Length	Analysis					
From	To									
		-fresh unmineralized quartz biotite veins								
		-trace chalcopyrite								
227'	249'	Dioritized andesite								
		-extreme fracturing with chloritization pervasive throughout								
		-coarse fracture controlled pyrrhotite, pyrite and lesser chalcopyrite with average sulphide content exceeding 2% throughout								
		-local seams of massive magnetite - epidote with associated chalcopyrite, molybdenite, pyrite and pyrrhotite								
		-pyrrhotite with associated chalcopyrite decreases progressively in volume relative to pyrite with progression through the section								
249'	257'	Siliceous chloritized andesite								
		-pyrite content is much increased relative to chalcopyrite and pyrrhotite								
		-pyrite on fractures grades from fine dustings to euhedral cubes 1/8" diameter								
		-chloritization is diminished relative to previous section								
257'	260'	Alternating brown biotitic and green chloritic andesite								
		-trace chalcopyrite associated with magnetite epidote								
260'	270'5"	Epidotized andesite								



Property	District	Hole No. D.D.H. L.G. # 3
Commenced	Location	Tests at
Completed	Core Size	Hor. Comp.
Co-ordinates		Vert. Comp.
Objective		Logged by
		Date
		% Recov.

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
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Footage From To	Description	Sample No.	Length	Analysis					
263'-267'	-section is soft, friable and sheared								
@268'	-trace sphalerite with epidote on fracture								
	-local chloritic pods with pyrite and trace chalcopyrite through section								
269'-270'	-chalcopyrite disseminated and fracture controlled associated with epidote								
	-minor malachite stain at 270'5"								
270'5"-277'	Alternating green chloritic and brown biotite mottled andesite								
	-fracture controlled chloritic sections contain minor pyrite and chalcopyrite mineralization								
	-locally, trace chalcopyrite on quartz veins								
277'-286'6"	Brown biotitic andesite								
	-total sulphide content through section is less than 1%								
	-sporadic highly chloritized sections								
	-minor epidote magnetite seams with trace associated chalcopyrite								
	-disseminated pyrrhotite surrounding chalcopyrite nuclei								
	-sporadic quartz veins with trace associated molybdenite								
286'6"-289'6"	Biotite diorite dyke								
	-locally fine grained granular								

# Drill Hole Record



Property	District	Hole No. D.D.H. L.G.#3	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No.

Footage		Description	Sample No.	Length	Analysis					
From	To									
		-minor kaolinized potash feldspar								
		-trace pyrite and chalcopryrite on hairline fractures associated with chlorite epidote								
289'6"	297'	Andesite								
		-total sulphide content less than 0.3%								
		-trace chalcopryrite and pyrite on hairline fractures associated with chlorite								
		-minor barren quartz epidote stringers								
297'	318'	Alternating brown biotitic and siliceous chloritic andesite								
		-total sulphide content less than 1% through section								
		-chalcopryrite associated with pyrrhotite on quartz veins and as disseminated blebs								
	305'-307'	-trace molybdenite associated with milky quartz veins								
	@308'	-2" fine grained diorite dyke with associated chalcopryrite								
		-trace epidote magnetite seams with associated chalcopryrite								
318'	321'	Brown mottled biotitic andesite								
	320'-321'	-calcite chlorite epidote seams with coarse pyrite and trace chalcopryrite								
321'	335'6"	Siliceous chloritic andesite								

# Drill Hole Record



Colour Plot  
Dips

Property	District	Hole No.	D.D.H. L.G. #3
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
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Sheet 13

Footage From	To	Description	Sample No.	Length	Analysis
		-pyrrhotite increasing relative to pyrite through section			
		-locally micro dioritic in texture			
		-chalcopyrite is associated with pyrrhotite on fractures and as disseminations			
		-minor pyrite through section as free phase			
		-general increase in pyrite relative to pyrrhotite and chalcopyrite through section			
335'6"	337'	Epidotized andesite -evidence of leached chalcopyrite			
337'	351'6"	Alternating brown biotitic and siliceous chloritic andesite			
		-trace chalcopyrite and pyrite on chlorite through section			
		-pyrite generally occurs as a separate phase from chalcopyrite and pyrrhotite			
351'6"	363'	Brown mottled biotitic andesite			
		-total sulphide content through section is less than 1%			
		-pyrite is the main sulphide phase with minor chalcopyrite and pyrrhotite			
	353'	363'			
		- calcite epidote on fractures with chalcopyrite as only phase ←			
		sulphide			

# Drill Hole Record



Property	District	Hole No.	D.D.H.	L.G. #3
Commenced	Location	Tests at	Hor. Comp.	
Completed	Core Size	Corr. Dip	Vert. Comp.	
Co-ordinates		True Brg.	Logged by	
Objective		% Recov.	Date	

Footage From To	Description	Sample No.	Length	Analysis						
				Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	
354'-357'	-0.2 type chalcopryite mineralization plus secondary malachite and azurite associated with calcite epidote									
357'-363'	-minor disseminated pyrrhotite on chalcopryite nuclei									
363'-365'6"	Grey siliceous andesite -fresh euhedral pyrite on fractures throughout -trace molybdenite associated with milky quartz veins -trace chalcopryite through section									
365'6"-374'	Banded siliceous and chloritic andesite -development of crude foliation resultant from the alignment of biotite - trace associated pyrite, chalcopryite and molybdenite - no pyrrhotite - start of potash feldspar alteration and core adopts a pink coloration towards end of section									
374'	Contact intrusive -chilled fine grained potassic									
374'-376'5"	Biotite syenite -fine grained chilled contact facies -trace associated chalcopryite and pyrite									

# Drill Hole Record



our Plot  
Dipa

Property	District	Hole No. D.D.H. LG.#3	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet 15
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Footage		Description	Sample No.	Length	Analysis						
From	To										
376'5"	378'	Transitional zone -progressive gradation from fine grained contact phase to hypidiomorphic granular texture -quartz is clear -plagioclase and orthoclase are partially kaolinized									
378'	389'	Granite porphyry -trace magnetite and chalcopyrite as disseminations -trace molybdenite and pyrite on quartz veins -trace hematite on fractures associated with chlorite -seams of barren orthoclase feldspar crosscut throughout -minor epidote on fractures -dominant mafic phase is biotite with trace hornblende									
392'	412'	Quartz Monzonite porohyry -subtle decrease in orthoclase feldspar content -general increase in biotite content -trace molybdenite and pyrite on quartz fractures -trace disseminated magnetite									
412'	414'	Shear zone -highly pyritized and chloritized quartz monzonite -trace molybdenite associated									

# Drill Hole Record



Plot  
Dips

Property	District	Hole No.	D.D.H L.G.#3
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
 T Brg.  
 Collar Dip  
 Elev.  
 Length  
 Hole No. 16  
 Sheet 16

Footage From To	Description	Sample No.	Length	Analysis					
414'-425'	Fresh quartz monzonite -trace chalcopryrite and pyrite and pyrrhotite on chlorite fractures								
425'-431'	Sericitized and pyritized quartz monzonite -total sulphide content exceeds 10% -trace molybdenite								
426'-427'	-relatively unaltered quartz monzonite								
431'-438'	Fresh quartz monzonite -pyrite occurs as disseminations and on quartz chlorite fractures -trace chalcopryrite occasionally through section								
	END OF HOLE								

Scale

Colour Plot  
& Dips

## Drill Hole Record



Property LORN GROUP District CLINTON &amp; LILLOET M.D. Hole No. D.D.H. L.G. # 4

Commenced July 30/74 Location 1.15 Mi. S.W. Lorna Tests at - Hor. Comp. 125'

 Completed August 3/74 Core Size <sup>Lake</sup> BQ1 Corr. Dip - Vert. Comp. 125'

Co-ordinates True Brg. 115° East Logged by A.C. Freeze Jr.

Objective Test Mineralized Andesite % Recov. &gt;95% Date

Claim

64

T Brg.

115° East

Collar Dip

-45°

Elev.

8150'

Length

177'

Hole No.

Sheet

Footage		Description	Sample No.	Length	Analysis					
From	To									
0'	6'	Siliceous dark grey andesite								
		-section highly fractured								
		-minor fracture controlled and disseminated pyrite and pyrrhotite								
		-magnetite disseminated								
		-trace chalcopyrite associated with pyrrhotite and pyrite on quartz								
		chlorite fractures								
6'	10'6"	Siliceous dark grey andesite								
		-extreme sulphide leaching through section								
10'6"	16'	Aphanitic to medium grained biotite diorite dyke								
		-quartz chlorite veins crosscut								
		-trace disseminated pyrite								
16'	26'	Siliceous hornblende porphyry andesite								
		-1/8"-1/2" quartz chlorite epidote veins contain trace chalcopyrite,								
		pyrrhotite and molybdenite								
		-minor fracture controlled magnetite with associated chalcopyrite								
		-trace disseminated pyrrhotite, pyrite and chalcopyrite throughout								
		section								



Scale

Colour Plot  
& Dips

## Drill Hole Record



Property \_\_\_\_\_ District \_\_\_\_\_ Hole No. D.D.H. L.G. # 4

Commenced \_\_\_\_\_ Location \_\_\_\_\_ Tests at \_\_\_\_\_ Hor. Comp. \_\_\_\_\_

Completed \_\_\_\_\_ Core Size \_\_\_\_\_ Corr. Dip \_\_\_\_\_ Vert. Comp. \_\_\_\_\_

Co-ordinates \_\_\_\_\_ True Brg. \_\_\_\_\_ Logged by \_\_\_\_\_

Objective \_\_\_\_\_ % Recov. \_\_\_\_\_ Date \_\_\_\_\_

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage		Description	Sample No.	Length	Analysis														
From	To																		
26'	38'6"	Light grey chloritic andesite																	
		-total sulphide content through section $\approx$ 1%																	
		-pyrrhotite, pyrite minor chalcopyrite and trace molybdenite on quartz chlorite fractures																	
	36'	38'6"	-highly weathered barren chloritic andesite																
38'6"	43'	Hornfelsed chloritic andesite																	
		-coarse fracture controlled seams of pyrite and chalcopyrite																	
	39'	40'	-massive magnetite pyrrhotite, chalcopyrite, pyrite and molybdenite																
	40'	43'	-siliceous chloritic andesite with irregular fracture seams up to $\frac{1}{2}$ " thick of pyrite, chalcopyrite magnetite and pyrrhotite																
		-trace disseminated sulphides through section																	
		-main alteration phase associated with sulphides is chlorite																	
43'	53'	Fine grained grey chloritic andesite																	
		-total sulphide content through section $\approx$ .5%																	
		-main alteration phases are quartz chlorite and quartz chlorite epidote																	
		-@ 43' trace sphalerite associated with pyrite and chalcopyrite on epidote vein																	
		-minor disseminated pyrrhotite surrounding chalcopyrite nuclei																	
		-locally fracture controlled pyrrhotite with associated chalcopyrite																	

## Drill Hole Record



Property	District	Hole No. D.D.H. L.G. # 4		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. L.G. #4	Sheet
Commenced	Location	Tests at	Hor. Comp.							3
Completed	Core Size	Corr. Dip	Vert. Comp.							
Co-ordinates		True Brg.	Logged by							
Objective		% Recov.	Date							
Footage From To	Description	Sample No.	Length	Analysis						
	-towards the end of the section the rock changes to micaceous andesite									
53'-66'	Alternating chloritic and brown hybridized andesite									
	-total sulphide content exceeds 1% through section									
	-sporadic zones up to 5" in thickness with minor chalcopryrite associated with chlorite and magnetite									
	56'-56'6"									
	-seams of clear quartz with trace chalcopryrite and molybdenite									
	-micro dioritized andesite with excess of 2% sulphides									
	56'6"-59'									
	-mainly pyrrhotite with minor associated chalcopryrite									
	59'-63'									
	-pyritized andesite with greater than 1% associated chalcopryrite									
	63'-66'									
	-epidotized andesite with associated calcite, malachite and azurite									
66'-71'	Chloritized, epidotized locally micro dioritized andesite									
	-minor magnetite on fractures with associated chalcopryrite and trace molybdenite									
	-fracture controlled pyrite is main sulphide phase through section									
71'-73'	Crackle fractured felsite dyke									
	-trace chalcopryrite with associated malachite									
	-zone is highly sheared									
	-main alteration is chlorite epidote									

Scale

Colour Plot  
& Dips

## Drill Hole Record



Property	District	Hole No. D.D.H. L.G. # 4	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No. Sheet

Footage		Description	Sample No.	Length	Analysis					
From	To									
73'	77'	Shear Zone								
		-highly leached rubbly chloritic andesite trace malachite								
	77'-93'6"	-bleached banded siliceous chloritic andesite								
		-trace sulphides through section								
		-locally pink colouration due to potash feldspar alteration								
		-minor barren epidote and quartz chlorite stringers through section								
		-core is generally biotite deficient through section								
93'6"	96'	Quartz diorite porphyry dyke								
		-total mafic content is $\approx 3\%$ being mainly biotite								
		-trace chalcopyrite and pyrite associated with clear quartz epidote seams								
96'	103'	Hybridized andesite								
		-zone adopts a higher degree of homogeneity								
		-trace chalcopyrite associated with quartz chlorite epidote								
103'	107'6"	Quartz diorite dyke								
		-barren quartz kspar vein crosscuts								
		-trace chalcopyrite associated with quartz chlorite epidote								



## Drill Hole Record



Property	District	Hole No. D.D.H. L G. #4	Claim	T Brg.	Collar Dip	Elev.	Length	Sheet
Commenced	Location	Tests at	Hor. Comp.					6
Completed	Core Size	Corr. Dip	Vert. Comp.					
Co-ordinates		True Brg.	Logged by					
Objective		% Recov.	Date					
Footage From To	Description	Sample No.	Length	Analysis				
	-few magnetite epidote veins with trace chalcopyrite							
	-@ 151' - trace molybdenite over 6" associated with quartz veins in fine grained diorite dyke							
156'-166'	Highly chloritized micro dioritized contact andesite							
	-occasional quartz chlorite veins crosscut with good chalcopyrite mineralization							
	-quartz epidote veins contain chalcopyrite, pyrite and pyrrhotite							
166'-168'	Biotite quartz diorite dyke							
	-dyke is transitional in texture from medium grained at the center to chilled at the contact							
	-minor quartz chlorite veins with evidence of leached sulphides							
168'-171'6"	Hybridized contact andesite							
	-highly silicified bleached and leached							
	-greater than 1% pyrite locally							
	-all biotite chloritized							
171'6"-177'	Quartz diorite porphyry dyke							
	-partially leached							
	-trace disseminated pyrite through section							

END OF HOLE



# Drill Hole Record

Property LORN GROUP District CLINTON & LILLOOET M.D. Hole No. D.D.H. L G. #5

Commenced August 4/74 Location NTS 920/3 1.15 mi. S.W. Tests at - Hor. Comp. 310'

Completed August 7/74 Core Size Lorna Lake B.Q. Corr. Dip - Vert. Comp. 374'

Co-ordinates True Brg. 295° West Logged by A.C. Freeze Jr.

Objective Test mineralized andesite % Recov. >95% Date

Claim 64  
 T Brg. 295° west  
 Collar Dip -50°  
 Elev. 8150'  
 Length 487'  
 Hole No. #5  
 Sheet 1

Footage From To	Description	Sample No.	Length	Analysis
0'-25'	Siliceous dark grey andesite -total sulphides less than 1% through section -trace chalcopyrite and molybdenite on fractures associated with pyrrhotite -minor pyrrhotite as disseminations surrounding chalcopyrite nuclei -core through section is highly fractured with high percentage leaching			
25'-26'	Light green epidotized andesite -minor magnetite associated -chalcopyrite associated with epidote			
26'-28'6"	Siliceous grey chloritized andesite -fracture controlled pyrite and trace chalcopyrite on quartz veins -trace disseminated pyrrhotite			
28'6"-45'	Siliceous chloritized andesite 28'6"-35' -section highly micaceous -quartz stringers crosscut sporadically through section with minor pyrite trace chalcopyrite and molybdenite -fine dustings of pyrite pyrrhotite and trace chalcopyrite disseminated through section			

Scale

Colour Plot  
& Dips

## Drill Hole Record



Property	District	Hole No. D.D.H. L.G. #5	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage From	To	Description	Sample No.	Length	Analysis
		-few barren quartz epidote seams			
45'	47'	Dioritized andesite			
		-minor fracture controlled chalcopryrite, pyrrhotite and molybdenite on quartz chlorite fractures			
		-@ 47' - barren calcite epidote stringer			
47'	58'	Mottled biotitic andesite			
		-total sulphide content less than 0.5% through section			
		-pyrite pyrrhotite and chalcopryrite mineralization generally associated with chlorite on fractures			
58'	68'	Siliceous andesite			
		-total sulphide content of approximately 1% through section			
		-high degree of fracturing and leaching through section			
		-chalcopryrite, molybdenite and pyrrhotite associated with quartz and quartz chlorite on fractures			
68'	78'	Grey green argillically altered andesite			
		-minor chalcopryrite, pyrrhotite, pyrite and trace molybdenite associated with quartz veins			
		-quartz veins are locally pinched into boudinage type structures			

## Drill Hole Record



Property	District	Hole No.	D.D.H. L.G. #5
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From To	Description	Sample No.	Length	Analysis					
				Claim	T Brg.	Collar Dip	Elev.	Length	
	-70'-78' crude foliation developed with disseminated sulphide mineralization aligned parallel to foliation -minor calcite veining occasionally								
78'-89'	Foliated brown biotitic andesite -total sulphide content approximately 1% -disseminated chalcopyrite as free phase and associated with chalcopyrite -locally highly chloritized zones with best sulphide mineralization -trace molybdenite as dustings on chlorite fractures -minor coarse euhedral cubes of pyrite								
89'-97'	Partially silicified biotitic andesite -minor chloritization through section -quartz veins and quartz chlorite epidote veins through section with chalcopyrite, pyrite, minor pyrrhotite and trace molybdenite -disseminated pyrite chalcopyrite and lesser pyrrhotite through section								
97'-106'	Alternating brown micaceous and siliceous chloritized andesite -well developed foliation in micaceous sections -majority of sulphides are disseminated and aligned parallel to foliation								





Scale

Colour Plot & Dips

# Drill Hole Record

Property	District	Hole No. D.D.H. L.G. #5	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No.  
L.G. #5  
Sheet  
4

Footage		Description	Sample No.	Length	Analysis					
From	To									
		-main sulphide phase is pyrrhotite with trace pyrite and chalcopyrite								
		-minor fracture controlled quartz chlorite and epidote alteration								
106'	167'	Grey brown siliceous biotitic andesite								
		-fracture controlled sulphides associated with quartz chlorite and quartz chlorite epidote on fractures								
		-locally micaceous sections are well foliated								
		-disseminated pyrite and pyrrhotite surrounding chalcopyrite nuclei								
		-total sulphide content varies between 1% and 5% through section with main phase being pyrrhotite								
		-trace molybdenite through section associated with quartz @ 114' - 2" quartz eye felsite vein								
		-trace chalcopyrite associated with minor epidote veining through section								
		-epidotization is most intense in areas of low sulphide content								
		-@ 148' barren calcite epidote stringer								
		-@ 154'-156' good grade chalcopyrite, pyrite, pyrrhotite and molybdenite associated with 2' milky quartz chlorite seam								
167'	172'	Dioritized andesite								
		-total sulphide content exceeds 2% with main sulphide phase being pyrrhotite								

## Drill Hole Record



Property	District	Hole No. D.D.H. L.G. #5	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.  
L.G. #5Sheet  
5

Footage From To	Description	Sample No.	Length	Analysis				
172'-176'	Siliceous chloritized andesite -marked depletion of sulphides through section							
176'-201'	Dioritized andesite -total sulphide content varies between 1% and 4% through section -sulphides associated mainly with quartz and quartz chlorite fractures -main sulphide phase is pyrite with lesser pyrrhotite, chalcopyrite and trace molybdenite -less chloritized sections are pink in colouration -pyrrhotite increases relative to pyrite with progression through section							
201'-206'	Siliceous chloritized andesite -greater than 5% disseminated pyrrhotite surrounding chalcopyrite nuclei through section -trace associated pyrite on fractures -pinkish colouration in andesite may be due to potash introduction -minor molybdenite associated with quartz chlorite fractures							
206'-227'	Pink chloritized micaceous andesite -total sulphide content generally depleted but locally grads to 4% -main sulphide phase is pyrrhotite, but depletes relative to pyrite with progression through section							

## Drill Hole Record



Property	District	Hole No. D.D.H. L.G. #5	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From To	Description	Sample No.	Length	Analysis					
				Claim	T Brg.	Collar Dip	Elev.	Length	
	-chalcopyrite mainly disseminated as free phase and associated with pyrrhotite								
	-good molybdenite associated with a few milky quartz veins through section								
227'-268'	Grey siliceous moderately to highly chloritized andesite								
	-total sulphide content varies between 2% and 3% through section								
	-sulphides mainly as disseminations with pyrrhotite and pyrite generally equal in abundance and minor associated chalcopyrite								
	-molybdenite as coarse rosetts and minor dustings on quartz chlorite epidote veins								
	-pyrite found as coarse euhedral cubes on fractures @ 242' trace sphalerite associated with chalcopyrite on epidote seam								
	-@ 252' trace chalcopyrite associated with calcite chlorite seam								
	-@ 263'-265' extreme epidotization with associated chalcopyrite								
268'-278'	Siliceous foliated biotitic andesite								
	-total sulphides exceed 3% through section as disseminations aligned with foliation								
	-quartz halos surround sulphides								
	-towards end of section chalcopyrite and trace sphalerite associated with quartz chlorite epidote fractures								



## Drill Hole Record



Property		District	Hole No. D.D.H. L.G. #5		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
Commenced		Location	Tests at	Hor. Comp.							
Completed		Core Size	Corr. Dip	Vert. Comp.							
Co-ordinates			True Brg.	Logged by							
Objective			% Recov.	Date							
Footage From	To	Description	Sample No.	Length	Analysis						
		-subtle increase in sulphide mineralization									
		-approximately 5% of core contains chalcopyrite and pyrrhotite on chlorite fractures									
		-trace molybdenite associated with quartz chlorite									
		-pyrrhotite and pyrite are equal in abundance found mainly on fractures									
362'	384'	Highly fractured and leached biotitic andesite									
		-less than 1% sulphides throughout with trace chalcopyrite associated with pyrrhotite and pyrite									
		-high calcification in weathered sections									
	378'	384'									
		-subtle increase in competence of core due to silicification									
		-minor barren calcite epidote seams									
		-trace magnetite on fractures with associated chalcopyrite and pyrite									
		-pyrrhotite generally replacing pyrite as main disseminated phase									
384'	457'	Dioritized andesite									
		-total sulphides exceed 1% through section as disseminations and fracture controlled extreme silicification and chloritization									
		-fracturing is intense throughout with chlorite mainly healing fractures									
		-chalcopyrite found as fine dustings on chlorite associated with pyrite and pyrrhotite									
		-minor magnetite throughout									

## Drill Hole Record



Property	District	Hole No. D.D.H. L G. #5		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. L G. #5	Sheet
Commenced	Location	Tests at	Hor. Comp.							9
Completed	Core Size	Corr. Dip	Vert. Comp.							
Co-ordinates		True Brg.	Logged by							
Objective		% Recov.	Date							
Footage From To	Description	Sample No.	Length	Analysis						
	-trace molybdenite occasionally associated with chlorite									
	-few barren calcite epidote orthoclase seams									
	-with progression through section there is a subtle increase in chalcopyrite and pyrrhotite									
	-chalcopyrite occasionally occurs with quartz epidote on fractures									
	447'-457'									
	-seams locally 1/2" thick of pyrrhotite and associated chalcopyrite									
457'-469'	Dioritized andesite									
	-total sulphides exceed 1% although now are progressively decreasing in abundance									
	-sulphides mainly fracture controlled									
469'-472'	Quartz diorite dyke									
	-barren									
	-no observable contact effects									
	-good chalcopyrite and pyrrhotite located in contact andesite adjacent to dyke									
472'-487'	Dioritized andesite									
	-silicification increasing with a decrease in fracturing									
	-fracture controlled sulphides are much depleted									
	-feldspar phenocrysts becoming larger with progression through section									





Mr. K. J. Weir  
Mining Recorder  
Box 70  
Lillooet, B. C.

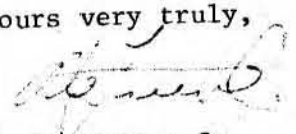
8 October 1974

Dear Mr. Weir:

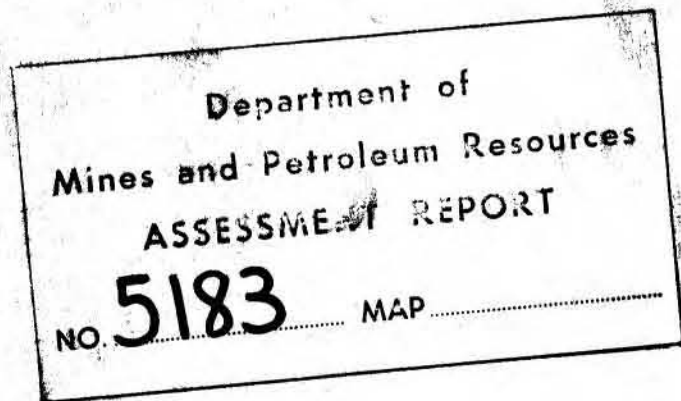
We hereby submit diamond drill data for which we submitted the affidavit on application to record work and B.C. Mining Receipts; 95624E (September 9/74) and 95641E (September 10/74).

At that time we asked for an extension on drill data submittal. Thank you for your consideration.

Yours very truly,

  
A. C. Freeze Jr.  
Geologist  
Exploration

ACF/dr  
Enc.



British Columbia Government Agent

RECEIVED

OCT 9 1974

LILLOOET  
BRITISH COLUMBIA