

# 5233

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

N.T.S. 92 H/5

## 92H/5W

DIAMOND DRILLING REPORT

SENECA 1-74, 2-74, 3-74 AND 4-74 CLAIM GROUPS

CHEHALIS RIVER

NEW WESTMINSTER MINING DIVISION

OCTOBER 15, 1974

D.L. COOKE, Ph.D., P.Eng.

PERIOD OF WORK

April 9, 1974 to August 13, 1974 .

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. <b>5233</b> MAP.....
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DRILL DATA FOR DIAMOND DRILL HOLES

#74-30, 31, 32, 34, AND 37

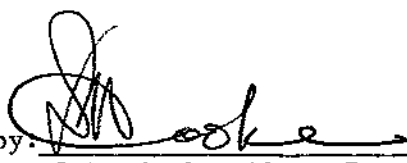
ON THE

SENECA PROPERTY

<u>DRILL HOLE</u>	<u>LOCATION</u>	<u>CLAIM GROUP</u>	<u>DIP</u>	<u>BEARING</u>	<u>DEPTH</u>	<u>CORE UNIT SIZE</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>	<u>CREDITS</u>
74-30	Lucky Jim	Seneca 1-74	-90°	---	355'	BQ	\$13.50/ft	\$4,792.50	
74-32	Lucky Jim	Seneca 1-74	-90°	---	463'	BQ	13.50/ft	<u>6,250.50</u>	
								11,043.00	48 yrs
74-31	Harrison 20	Seneca 2-74	-90°	---	359'	BQ	13.50/ft	4,846.50	24 yrs
74-37	Harrison 2	Seneca 3-74	-80°	105°	308'	AQ	10.48/ft	3,227.84	16 yrs
74-34	C 8 Fr.	Seneca 4-74	-75°	020°	<u>444'</u>	BQ	13.50/ft	<u>5,994.00</u>	<u>29 yrs</u>
					<u>TOTAL</u>	<u>1929'</u>		<u>\$25,111.34</u>	<u>117 yrs</u>

All drill cores are stored under lock and key in a shack located at the camp site on the Lucky Jim claim.

The locations of the holes have not been surveyed and their elevations are unknown.

Signed by:   
D.L. Cooke, Ph.D, P. Eng.

Endorsed by:   
D. W. Heddle, P.Eng.

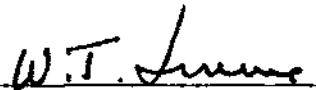
Approved for  
Release by:   
W. T. Irvine, P.Eng.

EXHIBIT "A"

DIAMOND DRILLING COSTS

ON THE

SENECA 1-74, 2-74, 3-74 AND 4-74 CLAIM GROUPS

Situate At Chehalis River

49° 22' North Latitude

122° 00' West Longitude

N.T.S. 92 H/5

Salaries:	T.M. Elliott, Geologist	
	23 office days (Jan. 1-April 9, 1974)	
	@\$65.00/day	\$ 1,495.00
	66 Field days (April 9-June 12, 1974)	
	@\$65.00/day	4,290.00
	D. Cary, Field Assistant	
	72 Field days (March 20-June 18, 1974)	
	@\$40.00/day	2,880.00
	D. L. Cooke, Project Geologist (Supervision)	
	8 Office days (April 9 to August 13, 1974)	
	@ \$100.00/day	800.00
	4 Field days (April 9 to August 13, 1974)	
	@ \$100.00/day	400.00

Domicile and Camp Services:

Camp Costs - 138 man days @ approximately \$11.94/day 1,648.00

Transportation:

U-Drive as per invoice-Brentwood Leasing	513.00
Expenses - Gasoline, Maintenance, etc.	360.00
Miscellaneous	70.00

Drill Site Preparation:

Bulldozer charges as per invoices - Acme Sprayers & Bulldozing	2,819.00
Miscellaneous	95.00

Diamond Drilling:

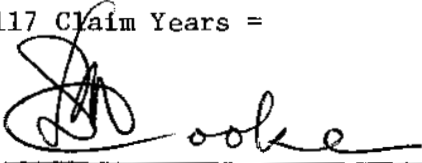
Direct Contract charges as per invoices:	
Cameron McCutcheon Drilling Ltd.	31,790.00
Total Cost of Drill Programme:	<u>47,160.00</u>
Total Footage Drilled: 3,492 Ft.	
Cost Per Foot Drilled: $\frac{\$47,160.00}{3,492} = \$13.50 \text{ Ft.}$	

Drilling Costs Applicable as Follows:

1,621' B.Q. Drilling @ \$13.50/ft	21,883.50
308' A.Q. Drilling @ \$10.48/ft	3,227.84

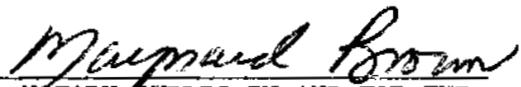
Total Drilling Costs Applicable: 25,111.34

Total Assessment Credits Requested For 117 Claim Years = 23,400.00

Signed: 

David L. Cooke, Ph.D., P.Eng.

THIS IS EXHIBIT "A" TO THE STATUTORY DECLARATION OF EXPENDITURES RELATING TO THE DIAMOND DRILL PROGRAMME DECLARED BEFORE ME ON THE 21st DAY OF OCTOBER, 1974, A.D.

  
A NOTARY PUBLIC IN AND FOR THE PROVINCE OF BRITISH COLUMBIA

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A DIAMOND DRILL PROGRAMME

CARRIED OUT ON THE MINERAL CLAIMS

LUCKY JIM, HARRISON 20, HARRISON 2 AND C 8 FRACTION

OF THE

SENECA CLAIM GROUPS 1-74, 2-74, 3-74 AND 4-74 RESPECTIVELY

Located on the Chehalis River

in the New Westminster Mining Division of the

Province of British Columbia

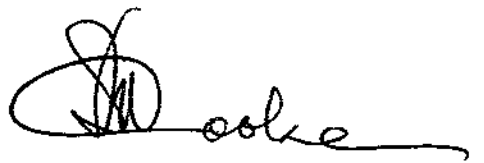
More Particularly N.T.S. 92 H/5

A F F I D A V I T

I, DAVID L. COOKE, 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 INCURRED ON DIAMOND DRILLING ON THE MINERAL CLAIMS LUCKY JIM, HARRISON 20, HARRISON 2, and C 8 FRACTION;
3. THAT THE SAID EXPENDITURES WERE INCURRED BETWEEN THE 9TH DAY OF APRIL 1974 AND THE 13TH DAY OF AUGUST, 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 )  
21st day of )  
October 1974. )  
  
Maureen Brown )  
A NOTARY PUBLIC IN AND FOR THE )  
PROVINCE OF BRITISH COLUMBIA )

  
\_\_\_\_\_  
DAVID L. COOKE

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

15th October 1974

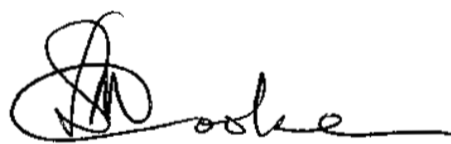
STATEMENT OF QUALIFICATIONS

I, David L. Cooke, with business address at 2200-200 Granville Square, Vancouver 2, British Columbia, do hereby certify that I have supervised the diamond drilling programme and the logging of the drill core by T. M. Elliott, geologist, and have assessed and interpreted the data resulting from said programme on the Seneca Property.

I also certify that:

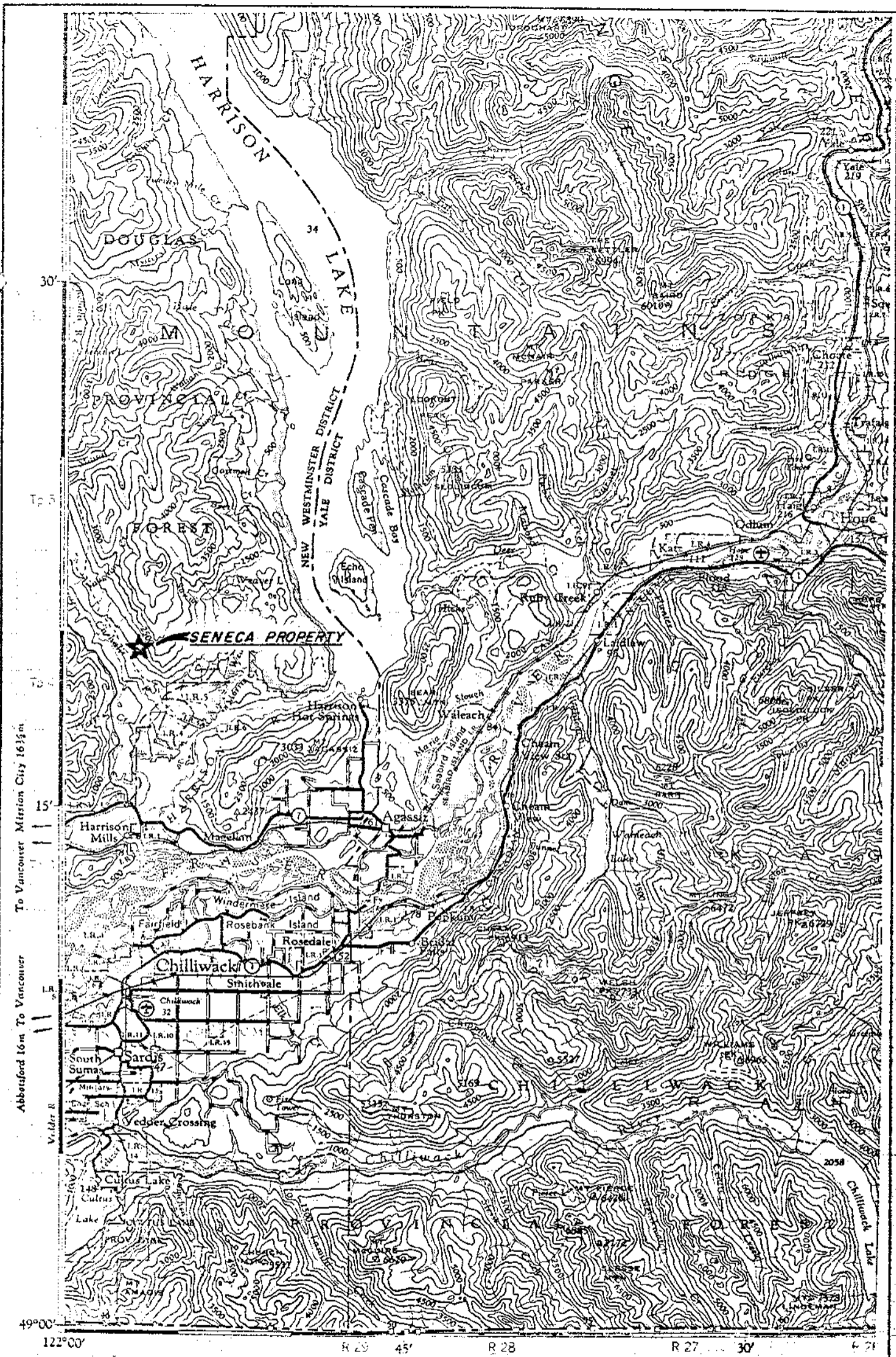
1. I am a graduate of the University of New Brunswick with a B.Sc. degree in Geology (1959), and of the University of Toronto, with M.A. and Ph.D. degrees in Geology (1961 and 1966 respectively),
2. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.

Respectively submitted:



D.L. COOKE, Ph.D., P.Eng.

Vancouver, British Columbia



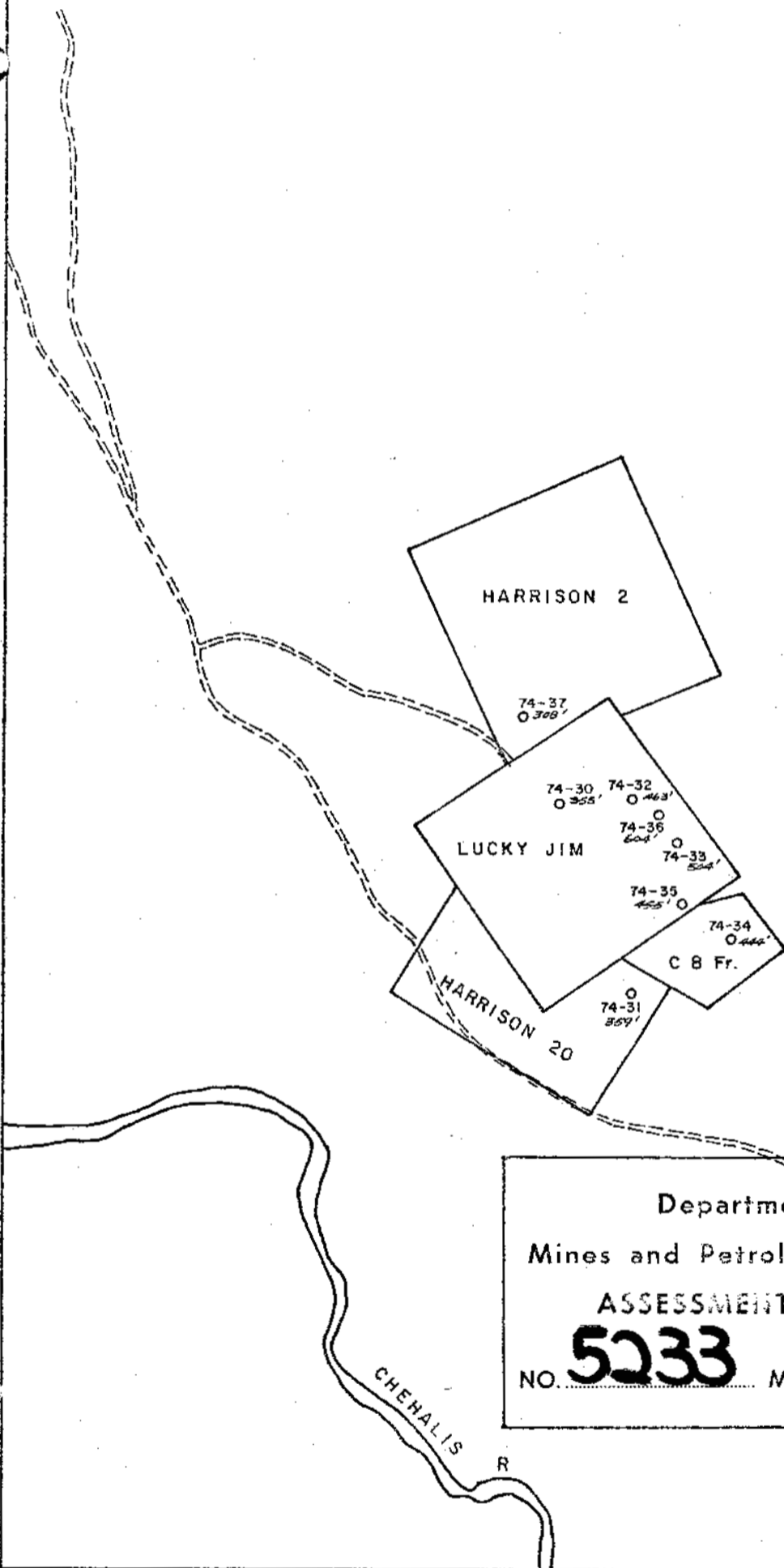
To Vancouver Mission City 16 1/2 m  
 Abbotsford 16 m To Vancouver

**SENECA GROUP**

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

LOCATION MAP **5233**  
**M1**

Scale: 1" = 4 MILES      Date: FEBRUARY / 71.      Plate: **M1**



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **5233** MAP **#2**

I.R. 5



Drawn by:		Traced by: <i>P. M. J.</i>	
Revised by	Date	Revised by	Date

SENECA OPTION **5233**  
DRILL HOLE LOCATIONS  
1974  
Scale: 1" = 1000'      Date: SEPT., 1974      Plate: **M2**

# Drill Hole Record



Property	Seneca	District	New Westminster	Hole No.	74-30
Commenced	April 9, 1974	Location	6 mi NNE of Harrison Mills	Tests at	None
Completed	April 12, 1974	Core Size	BQ	Hor. Comp.	---
Co-ordinates	24 + 25'S, 3 + 30'E	Corr. Dip	---	Vert. Comp.	355'
Objective	To intersect same "ore" horizons as found in the pit		True Brg.	---	Logged by T. M. Elliott
		% Recov.	88%	Date	April 12, 1974

Claim  
 T Brg.  
 Cellar Dip  
 Elev.  
 Length

Footage From To	Description	Sample No.	Length	Analysis
0 - 6	Overburden			
6 - 16	Multilithic lapilli tuff to tuff breccia containing a mixture of white to gray porphyritic rhyolitic to rhyodacitic fragments and dark green porphyritic andesitic fragments? (could also be crystal-lithic tuff matrix). Andesitic fragments? are often flattened out at 90° to core axis.			
16 - 43	Banded acid tuff which varies from gray to light brown to occasionally blacks. Banding is 65-80° to core axis. Small scale faulting noted. Broken ground from 28-43'.			
43 - 49	Grayish green lapilli tuff composed of dacitic to andesitic fragments in a dark green matrix. Fragments are mainly aphanitic. May be a more basic part of lower hangingwall tuff breccia.			
49 - 63	Gray to grayish green silty tuff. Rock is massive to banded with banding 75-85° to core axis. Near bottom of section tuff becomes more sandy (1/2-1 mm grains) and contains occasional porphyritic andesite fragment. Some disseminated and fracture pyrite.			
63 - 75	Greenish gray andesitic lapilli tuff containing conspicuous (10%) chloritic porphyritic andesite fragments. Near top of unit there is an abundance of gray rhyolitic lapilli. Unit is the hangingwall marker.			
75 - 77	Tuff as from 49 - 63'			
77 - 85'	Medium to dark greenish gray andesite porphyry which has a sharp upper contact with tuff. Contact 65-70° to core axis, hence unit is probably a flow or sill. There is no evidence of			





# Drill Hole Record



Property	District	Hole No.	74 - 30
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					
333 - 355'	Multilithic lapilli tuff composed mainly of gray rhyolite lapilli, 10% waxy green chloritic lapilli, minor brown rhyolite lapilli in a sandy matrix. Probably the footwall lapilli tuff.								
355'	End of hole. Last 1' in clayey gouge. Rods binding and lost circulation caused premature end of hole.								



# Drill Hole Record



Property	District	Hole No.	74-31
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
	porphyritic chloritic andesite frags.)							
156 - 173'	Andesitic lapilli tuff with occasional chloritic porphyritic andesite fragments. Very similar to hangingwall marker except it lacks breccia-sized chloritic porphyritic andesite fragments.							
173 - 181'	Gray cherty to relatively soft dark green silty tuff with banding 90° to core axis. Minor disseminated chalcopyrite.							
181 - 189'	Gray rhyolitic feldspar porphyry dyke with upper contact 25° to core axis. Dyke is well fractured and veined along upper contact. Tiny green phenocrysts? or amygdules sometimes intergrown with magnetite.							
189 - 213'	Grayish green coarse tuff to lapilli tuff containing dacitic, rhyolitic and andesitic fragments. Unit is characterized by having sections containing chloritic andesite porphyry fragments which indicate that it is the hangingwall marker unit.							
213 - 220	Gray to greenish gray cherty silty tuff and chert. Banding 65° to core axis.							
220 - 283	Fairly massive amygdaloidal dark gray to greenish gray dacite to andesite prophyry containing some sections (eg. 246 feet) of lapilli-bearing rock.							

Hole No. 74-31









Property	District	Hole No.	74-32
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									
89	91 1/2'	Grayish green coarse andesitic tuff.								
91 1/2	120 1/2	Dark gray porphyritic olivine basalt. Fractures contain hematite. Some calcite veins up to 1" thick sub parallel to the core axis. Some brecciation of the basalt in local sections.								
120 1/2	124'	Well fractured brownish gray rhyolite porphyry. Upper and lower contacts are very irregular and brecciated.								
124	128'	Dark gray porphyritic olivine basalt as above.								
128	139'	Grayish rhyolite porphyry as from 120 1/2 - 124 feet. Lower contact brecciated.								
139	150'	Dark grayish porphyritic olivine basalt as above. Some rhyolite breccia near bottom of unit.								
150	323'	Gray rhyodacite intrusive. Both contacts veined with calcite and brecciated.								
323	329'	Aphanitic dark green andesite. Probably intrusive into the rhyodacite porphyry.								
329	396'	Gray rhyodacite porphyry as from 150 - 323'.								
396	399 1/2	Mixed grayish green tuff and lapilli tuff composed of white rhyolitic to green dacitic to								







# Drill Hole Record

Property	District	Hole No.	74-32
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

Footage From To	Description	Sample No.	Length	Analysis				
433 1/2-434'	Green ore-zone fragmental consisting of a large (8") green andesite fragment in sparse black matrix.							
434-435'	Footwall black argillaceous tuff.							
435 - 437'	Footwall marker consisting of alternating bands of silty tuff and coarse lithic crystal tuff. Lower foot is transitional to the footwall tuff breccia.							
437 - 443'	Footwall tuff breccia composed of mainly gray and brown rhyolitic fragments and lesser amounts of dacitic fragments up to 3 inches across.							
443 - 445'	Andesite porphyry dyke.							
445 - 463'	Footwall tuff breccia as from 437-443 feet.							
463'	End of hole.							



# Drill Hole Record



Property	District	Hole No.	74-34
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								
163	171'	Dark gray to greenish silty tuff.							
171	176 1/2'	Dark brownish black lapilli tuff containing dominantly andesitic? fragments with 5 - 10% rhyolitic lapilli. There are some pyrite fragments? and some matrix pyrite.							
176 1/2	196 1/2	Gray chert containing 2 short intervals (178-180' and 183 1/2 to 188') of lapilli tuff. The latter section is andesitic and contains chloritic andesite porphyry lapilli characteristic of the hangingwall marker unit.							
196 1/2	204'	Dark gray to black olivine basalt.							
204	223'	Mixture of dark green sandy tuff and dark reddish brown lapilli tuff. At 212-213 there is well developed hangingwall marker lapilli tuff.							
223	251'	Gray chert, cherty tuff and argillaceous tuff.							
251	259 1/2'	Medium to dark gray sandy tuff.							
259 1/2	272'	Dark green fine grained andesite to andesite porphyry.							
272	331'	Mixed gray chert, cherty tuff and sandy tuff with several 1-2 foot sections of coarse green crystal lithic tuff.							





# Drill Hole Record



Property SENECA District NEW WESTMINSTER M.D. Hole No. 74-37  
 Commenced AUGUST 1, 1974 Location PIT AREA Tests at NONE Hor. Comp. 52.7 Ft.  
 Completed AUGUST 13, 1974 Core Size A-WIRELINE Corr. Dip -80° Vert. Comp. 298.8 Ft.  
 Co-ordinates \_\_\_\_\_ True Brg. 105° Logged by D.L. COOKE  
 Objective TO TEST FOR REPETITION OF ORE ZONE NORTH OF THE % Recov. 93.5 Date SEPTEMBER 11, 1974  
PIT AREA

Claim HARRISON # 2  
 T Brg. 105°  
 Collar Dip -80°  
 Elev. 1125 Approx.  
 Length 308 Ft.  
 Hole No. \_\_\_\_\_ Sheet \_\_\_\_\_

Footage From To	Description	Sample No.	Length	Analysis					
				Au	Ag	Cu	Pb	Zn	
	<u>SUMMARY</u>								
0 Ft. - 100.5 Ft	LOWER HANGING WALL SERIES: Chloritic andesite and rhyolite tuffs and lapilli tuffs. Minor argillaceous sediments.								
100.5 - 177.5'	ORE ZONE FRAGMENTAL: Mineralized andesite and rhyolite lapilli tuffs, tuff breccias and agglomerates. Mineralization occurs as fragments and in pyritic mud matrix. 106.5 - 107.5 Ft = Ore Zone 164.5 - 177.5 Ft = Ore Zone		1.0ft 13.0ft						
177.5 - 308 Ft.	FOOTWALL SERIES: Pyritic and siliceous tuff, lapilli and tuff breccias. Essentially rhyolitic in composition. Some andesite fragmentals and lesser argillaceous and cherty sediments.								
	END OF HOLE: 308 FEET								

## Drill Hole Record



Property	SENECA	District		Hole No.							
Commenced		Location		Tests at							
Completed		Core Size		Corr. Dip							
Co-ordinates		True Brg.		Logged by							
Objective		% Recov.		Date							
Footage	Description	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
From To											
0 - 27'	Tuff-Greenish chloritic (1-3 cm. fragments) breccia, andesitic, with rare white rhyolite fragments. Minor (4-8 cm) grey argillaceous bands with speckled spherulitic rhyolite(?) layers scattered throughout. Hanging-wall marker(?) 5 feet short.										
27 - 55.5'	Tuff-Hanging-wall Marker with trace disseminated chalcopyrite in grey feldspar porphyry fragments. Tuff breccia with dark chloritic whisps. (1-3 cm. fragments).										
55.5 - 68.0'	Tuff-Hanging-wall Marker. (1/4 - 1 cm.). Coarse grained tuff with small (1/2 cm.) chlorite whisps. Grey-green and andesitic in composition.										
68.0 - 77.0	Lapilli Tuff-Friable, streaky, grey, wispy fragmental rock with streaks of chloritic matter. Hanging-wall marker(?) Beds at 70°-80° to core axis. Siliceous and feldspathic in appearance.										
77.0 - 84'	Tuff-Greenish andesitic tuff. Beds at 70° to core axis (fragments 1-6 mm) 2½ feet short.										
84 - 92'	Tuff Breccia-Rhyolite tuff breccia to coarse grained tuff (2 mm - 2 cm). Streaky, plus 20 cm quartzite to sandstone bed. Bedding at 65° -75° to core axis.										
92 - 94'	Tuff-Grey green andesitic tuff-coarse grained.										



## Drill Hole Record



Property	SENECA	District		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	Description	Sample No.	Length	Analysis				
From	To			Au	Ag	Cu	Pb	Zn
94.5	98.5							
	Tuff-Spotted (with feldspar crystals) green and white andesitic tuff. Coarse grained.							
98.5	100.5							
	Argillaceous Tuff - Grey argillaceous sediment with trace pyrite (?).							
100.5	107.5							
	ORE ZONE FRAGMENTAL As follows:							
	100.5 - 106.5		6.0					
	- Tuff breccia - Coarse grained breccia with 1/2m. bombs. Fragmental chalcopryrite, plus pyrite, plus minor sphalerite. Estimated 0.5% Cu, 1% Zn, Tr Pb							
	106-106.5: Argillaceous Tuff-green argillaceous and chloritic sediment. This appears almost barren, but it may carry some fine sphalerite.							
	106.5 - 107.5		1.0					
	- ORE ZONE: Estimated 0.2% Cu, 5-10% Zn, Tr Pb. Abundant pyrite throughout ~ 5-10%.							
107.5	110.5		3.0					
	Lapilli: Tuff and Tuff Breccia: Grey, rhyolitic and pyritic lapilli tuff. Friable, 5-15% pyrite. Footwall breccia or "friable, siliceous rhyolite lapilli tuff" unit within ore zone fragmental.							
107.5	123.5							
	Lapilli Tuff and Tuff Breccia: Grey, rhyolitic and pyritic lapilli tuff and tuff breccia. Friable submassive pyrite (10-20%) matrix. Fragment size: 5 mm - 3cm. The matrix may contain traces of chalcopryrite and shalerite.							
	110 - 114 - short 3 3/4 feet.							

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

## Drill Hole Record



Property	SENECA	District	Hole No.
Commenced		Location	Tests at
Completed		Core Size	Hor. Comp.
Co-ordinates		True Brg.	Vert. Comp.
Objective		% Recov.	Logged by
			Date

Footage From To	Description	Sample No.	Length	Analysis					
				Au	Ag	Cu	Pb	Zn	
123.5 - 125	Lapilli Tuff - Streaky, friable, lapilli without pyrite matrix. Note minor dark shaley to argillaceous fragments and a few fragments with a green cast. Minor rust.								
125 - 129	Andesite - Massive, grey, andesite flow (?) with 5-10% black oval specks (1-2 mm) containing traces of chalcopyrite. Some vesicles are evident.								
129 - 163	Agglomerate - Massive andesitic rock, similar to that at 125-129, but containing areas of siliceous, coarse-grained tuff. (Agglomerate with sparse tuffaceous matrix). Trace chalcopyrite and pyrite. Minor argillaceous matrix is also present, and it may contain traces of zinc (?).								
	144.5 - The rock is definitely a green andesitic lapilli-pyroclastic with 3cm fragments.								
	145.0 - Note abundant carbonate vesicles and sparse fragmental material in this area.								
	158.0 - Some andesite bombs, up to 20 cm size, occur in dark argillaceous matrix.								
163 - 164.5	Tuff - Brownish grey, pyritic (5%) and streaky, with beds at 30°-40° to core axis. Minute (1/2 - 1 cm) chloritic whisps are suggestive of lower hangingwall sequence.								
164.5 - 177.5	ORE ZONE:								
	164.5 - 171.5 Massive pyrite (± 50%), barite precipitate (?). Estimated 2% Cu, 2-5% Zn.	14954I	7.0						
	171.5 - 175.5 Fragmental ore, high in sphalerite and pyrite (10%). Estimated 1% Cu, 10-20% zinc.	14955I	4.0						



# Drill Hole Record

Scale  
Colour Plot  
& Dips

Property	SENECA	District	Hole No.
Commenced		Location	Tests at
Completed		Core Size	Hor. Comp.
Co-ordinates		True Brg.	Vert. Comp.
Objective		% Recov.	Logged by
			Date

Claim  
T Brg.  
Collar Dip  
Elev.  
Length  
Hole No.  
74-37  
Sheet  
5

Footage From To	Description	Sample No.	Length	Analysis				
				Au	Ag	Cu	Pb	Zn
175.5 - 177.5	One foot of massive to friable, vuggy pyrite (10%) above 1ft. of fragmental ore. Estimated 1% Cu, 2-5% Zn.	14956T	2.0					
177.5 - 185.5	FOOTWALL FRAGMENTAL: (Lapilli Tuff) Grey, siliceous lapilli with traces of disseminated chalcopryrite and sphalerite (?). Pyrite (1-2%) occurs as disseminations and as seams.	14957T	8.0					
179 - 180	(1 ft. short). Fragment size is 1/4 - 4 cm.							
185.5 - 187	Tuff, Fine grained siliceous and pyritic (3-6%).							
187 - 191	Lapilli Tuff - Siliceous and pyritic (2-5%).							
191 - 194	Fault - No core/3 ft. short.							
194 - 230	Agglomerate - Green andesitic agglomerate as at 129-163. Matrix material appears bluish grey and pyritic. Bombs are up to 50 cm across. The andesite fragments contain 1 mm oval black specks and some carbonate vesicles. Note some 1/4 - cm fragments of pyrite in the matrix. A few specks of epidote are also visible.							
230 - 254.5	Tuff Breccia and Agglomerate - Green andesitic breccia is characterized by black oval specks and vesicles. The matrix appears to have been a fine grained, siliceous and pyritic (2-4%) mud. This argillaceous material contains traces of disseminated chalcopryrite.							
254.5-257.5	Argillaceous Tuff - Dark grey argillaceous unit with "slump structures". Beds are at 45° to core axis. A few scattered fragments of andesite and minor light grey siliceous bands are noticeable.							

# Drill Hole Record



Property	SENECA	District	Hole No.
Commenced		Location	Tests at
Completed		Core Size	Hor. Comp.
Co-ordinates			Vert. Comp.
Objective			Logged by
		% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
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Footage		Description	Sample No.	Length
From	To			
257.5	261	Tuff Breccia and Agglomerate: As at 230-254.5. Minor pyrite.		
261	262	Barite Mud - Grey mud with trace amounts of andesite fragments.		
262	267	Chert - Grey, laminated, beds at 75° to core axis.		
267	282	Argillaceous Tuff - Beds at 45°-75° to core axis. Note sections of wispy chloritic, quartzitic and feldspathic material. Chloritic material contains quartz and feldspar augens. Appears vuggy and friable, with moderate amounts of epidote. Pyrite is variable (Trace to 4%), some of it occurring in bands.		
282	308	Lapilli and Tuff Breccia - Siliceous, with fragments mainly chert (1-4 cm). Lesser rhyolite fragments are present. These occur in a dark chloritic matrix. Pyrite ranges from trace to 3%.		
		END OF HOLE 308'		

Hole No. 74-37  
Sheet 6