

REPORT ON THE  
SPECOGNA GOLD PROSPECT  
QUEEN CHARLOTTE ISLANDS, B.C.  
SKEENA MINING DIVISION

Lat.  $53^{\circ}32' N$  Long.  $132^{\circ}13' W$

for

CONSOLIDATED CINOLA MINES LTD. [NPL]  
1600-777 Hornby Street  
Vancouver, B.C.

by

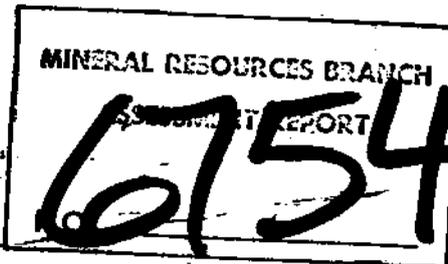
A. F. Roberts, P. Eng.

KEN SANDERS

AREA (code 604) 669-1524

Room 807

543 GRANVILLE ST



October 17, 1977

A. F. ROBERTS, P. ENG.  
CONSULTING MINING ENGINEER

1940 Limerick Place  
North Vancouver, B.C.

June 30, 1978

JUL -5 '78 AM

Mr. E.J. Bowles  
Chief Gold Commissioner  
Ministry of Mines & Petroleum Resources  
Victoria, B.C.



4295

Dear Sir:

File #166 - Skeena

DEPT. OF MINES  
AND PETROLEUM RESOURCES

Thank you for pointing out to me that Mr. Specogna has a P.A.C. account and that the Diamond Drilling Report #106 could have a value of \$40,000 or more.

I filed assessment on two claims this month amounting to a total of \$400.00 on the Babe property. I agree that it would be a good idea to credit a much larger figure to the P.A.C. account.

I will shortly be filing an additional 61 years on more of the Babe claims at the request of Mr. Specogna. I hope that the enclosed cost statement will be satisfactory to you. The drill contractor is Calar Developments and the basic drilling price is \$17.00 per foot. If necessary, I could probably get a breakdown of his costs but I wouldn't know how much he would pad them to minimize the profit he makes per foot. I do know that diamond costs on this job run as high as \$5.00 per foot in some siliceous sections. The cost statement is this year's, but his basic \$17.00 is the same as last year's.

Thank you again for pointing these things out to me, and should you wish further breakdown on costs please let me know.

Yours truly,

*K.G. Sanders*

K.G. Sanders

KGS/LA

REFERRED TO	DATE	INITIALS
C.G.C.	<input checked="" type="checkbox"/>	
D.C.G.C.	<input type="checkbox"/>	
G.C.	<input type="checkbox"/>	
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FILE NO.		
FILING CLERK		

2

CONSOLIDATED CINOLA MINES LTD. (N.P.L.)

Deferred Exploration, Development and Administration Expense  
for the year ended December 31, 1977

(with comparative figures for the year ended December 31, 1976)

	<u>December 31,</u> <u>1977</u>	<u>December 31,</u> <u>1976</u>
<u>Exploration and Development Expense:</u>		
Assaying	\$ 3,443.82	\$ -
Camp Supplies	718.00	-
* Drilling - 2224 feet at \$25 total ±	56,637.59	-
Engineering	7,272.30	-
Equipment Rental	3,025.00	-
Repairs and Maintenance	611.89	-
Taxes	107.26	196.51
Travel	3,067.87	200.00
Wages and benefits	3,118.23	600.00
<u>TOTAL</u>	<u>\$ 78,002.04</u>	<u>\$ 996.51</u>
 <u>Administration Expense:</u>		
Accounting and audit	\$ 2,750.00	\$ 500.00
Advertising	860.77	55.00
Legal	5,500.00	200.00
Miscellaneous	81.64	119.92
Office Rent	1,407.50	-
Office Supplies and Printing	2,801.20	-
Stock Exchange Fees	1,700.00	400.00
Telephone	1,634.38	-
Transfer Agent	5,560.59	25.00
Travel	2,690.44	-
<u>TOTAL</u>	<u>\$ 24,986.52</u>	<u>\$ 1,299.92</u>
<u>Total Expense for the year</u>	<u>\$ 102,988.56</u>	<u>\$ 2,296.43</u>
<u>Less: Reduction in accounts payable</u>	<u>\$ 23,733.47</u>	<u>\$ -</u>
<u>Net Expense for the year</u>	<u>\$ 79,255.09</u>	<u>\$ 2,296.43</u>
<u>Total Expense to end of the previous year</u>	<u>\$ 492,931.52</u>	<u>\$ 490,635.00</u>
<u>Total Expense to end of current year</u>	<u>\$ 572,186.61</u>	<u>\$ 492,931.50</u>

\* The \$25 is high because it includes moving, casing, standby, etc. plus moving up to the Queen Charlotte.

K. B. Sanders  
P. Eng.

Re:- Assessment work credits  
on Claim Babe # 24 M.C.

Rather than substantiate drilling  
costs with invoices etc. I wish to  
claim on the basis of \$10 per foot,  
which is about  $\frac{1}{2}$  the actual costs.

I hope this will be acceptable without  
receipts.

K. B. Sanders, P. Eng.

May 3, 1978

This engineer's report alone has cost  
me more than the \$200.00 I am claiming.

I wish I had paid cash in lieu.

See next 2 pages Eog July 4/78

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PROPERTY QUEEN

CHARLOTTE ISLANDS

# CONSOLIDATED CINOLA MINES LTD

VANCOUVER, B.C.

## SPECOGNA GOLD PROSPECT

QUEEN CHARLOTTE ISLANDS, B.C.

### LOCATION MAP

Date: Oct 17 1977

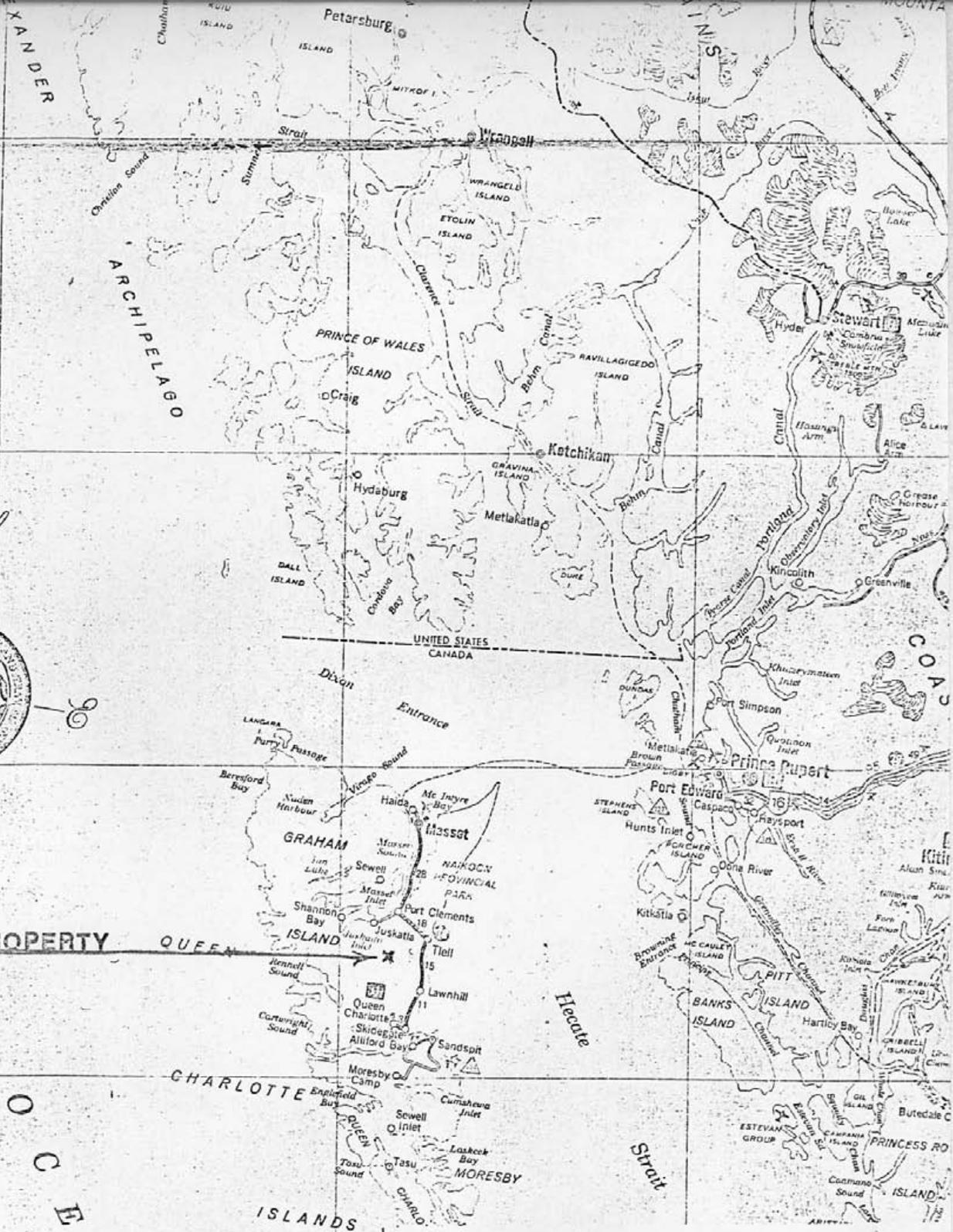
Scale: 1" = 38 mi.

Drawn by:

To Accompany Report by A F Roberts, P. Eng, dated October 17, 1977

Summer cruises along the Pacific Coast are operated by Royal Viking Lines; Pacific Far

*A F Roberts*



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- 3] Claim Map from B.C. Department of  
Mines & Petroleum Resources 103F9E....[follows page 3]
- 4] General Geology Map from B.C. Dept.  
of Mines & Petroleum Resources,  
Geological Field Work 1975. Babe  
Gold Prospect by A. Sutherland  
Brown, T.G. Schroster.....[follows page 4]
- 7] Drill Hole Plan [back pocket]
- 11] Quintana Minerals Corporation,  
Map Geology and Geochemistry,  
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APPENDICES

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REFERENCES

- 5] B.C. Department of Mines & Petroleum Resources, Bulletin 54, Geology of The Queen Charlotte Islands by A. Sutherland Brown 1968
- 6] B.C. Department of Mines & Petroleum Resources, Geological Field Work 1975, Report on the Babe Gold Prospect, Queen Charlotta Islands, by A. Sutherland Brown, T.G. Schroeter

Reports by A.F. Roberts, P.Eng., dated July 11, and August 30, 1977 re Specogna drilling and optioned claims

Report on the Specogna Gold Prospect by Donald W. Tully, P.Eng., May 16, 1977

Quintana Minerals Corporation: Summary Report, Specogna Gold Property, by G.G. Richards dated December 1974, and various maps and cross sections.

Report on the Babe Gold Property, by P.R. DeLancey, September 1973

Specogna Gold, Port Clement, by R.H. Seraphim, Ph.D., P.Eng., May 1973.

Colour Photographs of Cominco DDH 72-1.

## S U M M A R Y

The 1977 drilling on the Specogne Gold Prospect by Consolidated Cinola Mines Ltd. is considered very successful in that it has increased both the previous estimated grade and tonnages in the area drilled, covering only 5-6% of the area considered most favourable by previous work, and still leaves other large favourable areas to be explored.

Subject to a full scale feasibility study, and the limitations noted in the text, the preliminary tonnages estimated, at 0.035 oz per ton cut-off value, are -

1,340,000 tons at 0.0860 oz/ton - gold  
or 1,440,000 tons at 0.0796 oz/ton - gold  
with silver values at approximately 0.12 oz/ton

Note that the tonnage estimate can be raised or lowered by altering the cut-off value. A U.S. company is presently mining a grade of 0.06 oz per ton, cut-off grade of 0.02 oz per ton.

It is noteworthy that six holes did not reach the basement rocks, and that three of these were still in ore [at 200 feet], when stopped.

It is recommended that these six holes be deepened to the basement rocks, if the driller can re-set on them.

It is also recommended that the Company undertake to drill an additional 4,000 feet minimum, with another machine capable of drilling 500 feet, or more, to bottom in the basement rocks, and on an expanded pattern, say 200 feet between holes.

It is suggested that one hole could be reserved to test the southeast area where a grade of 0.08 is inferred.

As the past metallurgical work is inconclusive, it is recommended that further studies be undertaken by a local consultant.

The cost of the above program is estimated at \$125,000.00.

Respectfully submitted,

A.F. Roberts, P.Eng.

REPORT ON THE  
 SPECOGNA GOLD PROSPECT  
 QUEEN CHARLOTTE ISLANDS, B.C.  
 SKEENA MINING DIVISION  
 Lat. 53°32' N      Long. 132°13' W  
 for  
 CONSOLIDATED CINOLA MINES LTD. [NPL]  
 1600-777 Hornby Street  
 Vancouver, B.C.  
 By  
 A. F. Roberts, P. Eng.  
 October 17, 1977

INTRODUCTION

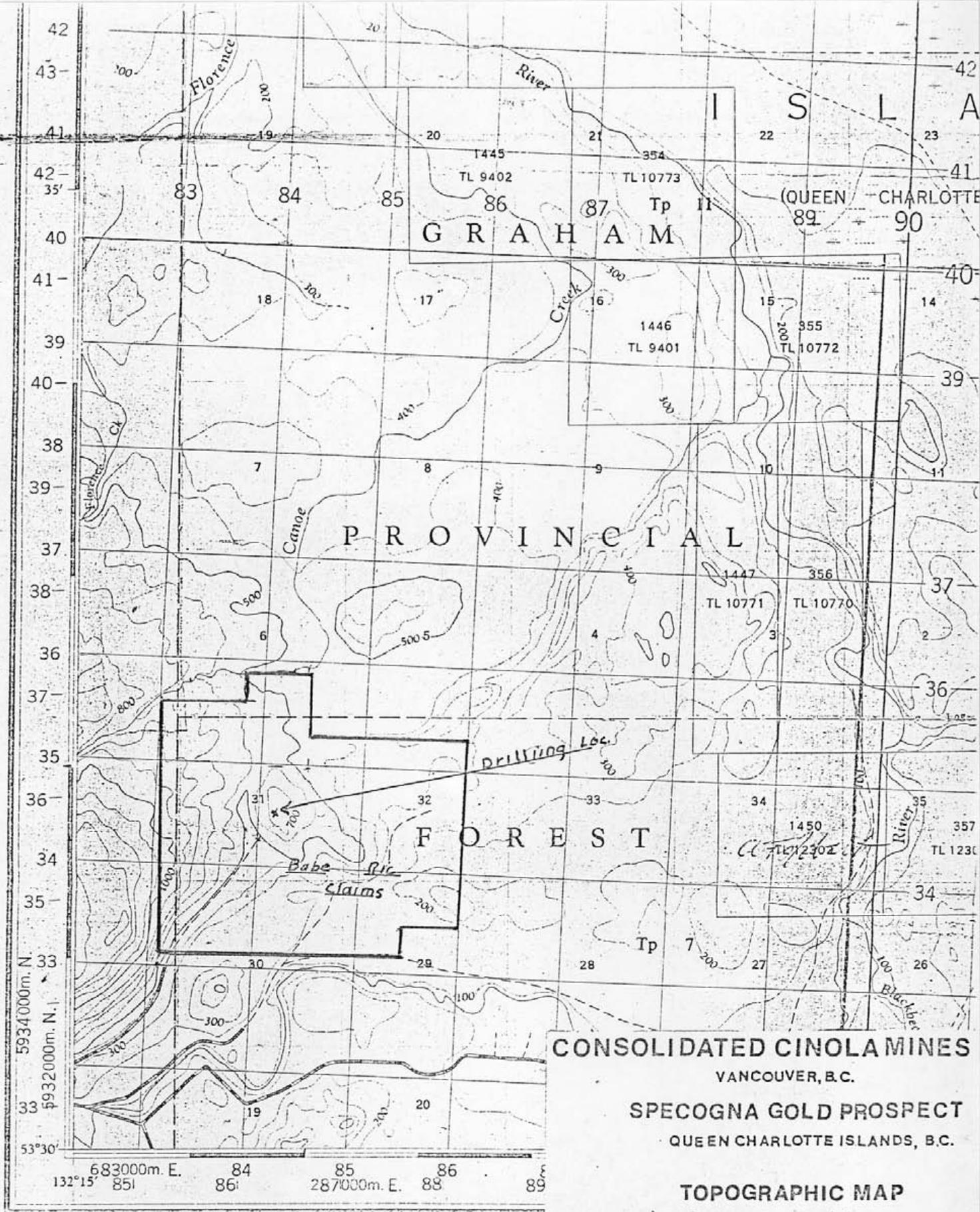
This report is authorized by the Directors of the Company.

Its purpose is to review all past work, including the recent drilling on the property.

Then, if considered advisable, to recommend an ongoing program of exploration.

The writer is familiar with the property from visits July 4-7, August 16-19, and September 27 - October 1, 1977.

All available data from the work of others has been read, and is referred to in the text.



**CONSOLIDATED CINOLA MINES**  
 VANCOUVER, B.C.  
**SPECOGNA GOLD PROSPECT**  
 QUEEN CHARLOTTE ISLANDS, B.C.  
**TOPOGRAPHIC MAP**

Produced by the ARMY SURVEY ESTABLISHMENT, R.C.E.  
 Information depicted current as of 1964. Printed 1966.  
 Copies may be obtained from the Map Distribution Office,  
 Department of Mines and Technical Surveys, Ottawa.

Date: Oct 17 1977  
 Scale: 1:50,000  
 Drawn by: *SA*  
 To Accompany Report by A F Roberts, P. Eng, date  
 October 17, 1977

SCALE 1:50,000 EC

LOCATION, ACCESS, TOPOGRAPHY:

The property consists of 41 full claims and 7 fractions "Baba" and "Rico".

They are about 26 miles south of Port Clements via MacMillan Bloedel logging roads, at the end of Branch Road No. 42, and are therefore, in a forest management license; and subject to the company's road use, and other regulations.

The area of the claims is of low topographic relief. Elevations within the group are 700 to 400 feet, A.S.L.

The area being drilled is in second growth timber. Mature timber covers the northern part of the claims, and the south grades into logged over, swampy ground.

There is sufficient water within the group to provide both drilling and domestic water.

Overburden varies from 0 to 15 feet in the current area of drilling, but grades to plus 150 feet to the southeast in the low areas.

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1] Location Map - 1" = 38 miles

[Frontispiece]

2] Topographic Map NTS 103F9/E

[Follows page 1]

CLAIM GROUP:

The group consists of the following claims:

<u>Name</u>	<u>Record No.</u>	<u>Date of Record</u>
Babe 1 - 8 incl.	34966-73 incl.	March 5, 1970
Babe 9 - 17 incl.	35222-30 incl.	March 26, 1970
Babe 18 - 23 incl.	36578-83 incl.	April 3, 1971
Babe 24 - 29 incl.	36601-06 incl.	April 28, 1971
Babe 30 - 32 incl.	36746-48 incl.	June 14, 1971
Rico 20 - 26 Fr.incl.	36739-45 incl.	June 14, 1971
Rico 1 - 9 incl.	36589-36600 incl.	April 28, 1971

The recorded owner is E. Specogna, and the claims are in good standing until at least 1978, with both work and rentals paid.

HISTORY:

The property was discovered and staked by E. Specogna and John Trico in 1970.

In 1971, Kennco Exploration optioned the property and carried out a soil-silt sampling program, with geological mapping and packseck diamond drilling.

In 1972, Cominco Ltd. optioned the claims and drilled 9 holes [500 metres], and colour-photographed the cores.

Also, in 1971, Canx Aerial Exploration also carried out geochemical and geological surveys.

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3] Claim Map from B.C. Department of Mines  
& Petroleum Resources 103F9E [Follows page 3]

• See List of References

CONSOLIDATED CINOLA MINES LTD.

VANCOUVER, B.C.

SPECOGNA GOLD PROSPECT

QUEEN CHARLOTTE ISLANDS, B.C.

CLAIM MAP

Date: Oct 17 1977

Scale: 1" = 1/2 mi

Drawn by: *AFR*

To Accompany Report by A F Roberts, P. Eng, dated October 17, 1977

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03 E/W

Florence Cr.

KEN

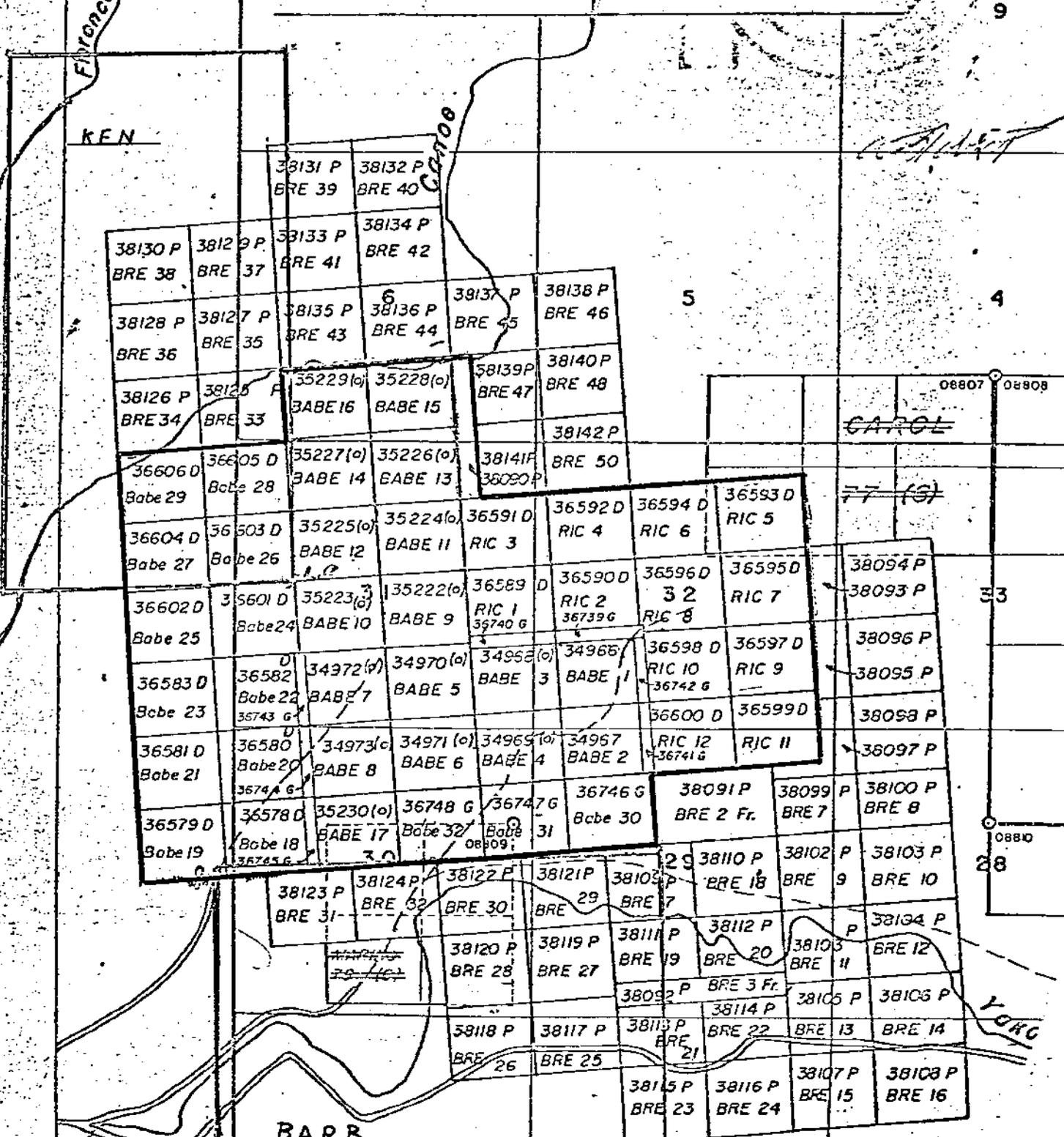
Caribou

GAROL

77 (S)

YONG

BARB



38130 P BRE 38	38129 P BRE 37	38133 P BRE 41	38134 P BRE 42	38131 P BRE 39	38132 P BRE 40				
38128 P BRE 36	38127 P BRE 35	38135 P BRE 43	38136 P BRE 44	38137 P BRE 45	38138 P BRE 46				
38126 P BRE 34	38125 P BRE 33	35229(o) BABE 16	35228(o) BABE 15	38139 P BRE 47	38140 P BRE 48				
36606 D Babe 29	36605 D Babe 28	35227(o) BABE 14	35226(o) EABE 13	38141 P 36090 P	38142 P BRE 50				
36604 D Babe 27	36603 D Babe 26	35225(o) BABE 12	35224(o) BABE 11	36591 D RIC 3	36592 D RIC 4	36594 D RIC 6	36593 D RIC 5		
36602 D Babe 25	36601 D Babe 24	35223(o) BABE 10	35222(o) BABE 9	36589 D RIC 1 36740 G	36590 D RIC 2 36739 G	36596 D RIC 8	36595 D RIC 7	38094 P 38093 P	
36583 D Babe 23	36582 D Babe 22 36743 G	34972(o) BABE 7	34970(o) BABE 5	34968(o) BABE 3	34966(o) BABE 1	36598 D RIC 10 36742 G	36597 D RIC 9	38096 P 38095 P	
36581 D Babe 21	36580 D Babe 20 36744 G	34973(o) BABE 8	34971(o) BABE 6	34965(o) BABE 4	34967 BABE 2	36600 D 36741 G	36599 D RIC 11	38098 P 38097 P	
36579 D Babe 19	36578 D Babe 18 36745 G	35230(o) BABE 17	36748 G Babe 32	36747 G Babe 31	36746 G Babe 30	38091 P BRE 2 Fr.	38099 P BRE 7	38100 P BRE 8	
	38123 P BRE 31	38124 P BRE 32	38122 P BRE 30	38121 P BRE 29	38105 P BRE 7	38110 P BRE 18	38102 P BRE 9	38103 P BRE 10	
			38120 P BRE 28	38119 P BRE 27	38111 P BRE 19	38112 P BRE 20	38105 P BRE 11	38104 P BRE 12	
					38092 P BRE 3 Fr.	38114 P BRE 22	38105 P BRE 13	38106 P BRE 14	
			38118 P BRE 26	38117 P BRE 25	38113 P BRE 21				
					38115 P BRE 23	38116 P BRE 24	38107 P BRE 15	38108 P BRE 16	

Silver Standard took over in 1973, and worked on it until Quintana Minerals took over the property from them in 1974, and also did geochemical and geological surveys, drilled four packack holes and sixteen percussion holes [623 metres].

In 1975, Quintana continued their work, drilling five holes with BX core [718 metres], and had some metallurgical studies done. They outlined an area of gold mineralization about 3,000 ft. x 1,200 ft., with indications that it could extend farther to the northwest and southeast.

Consolidated Cincos now has the option on the property.

GENERAL GEOLOGY: 4] 5] 6]

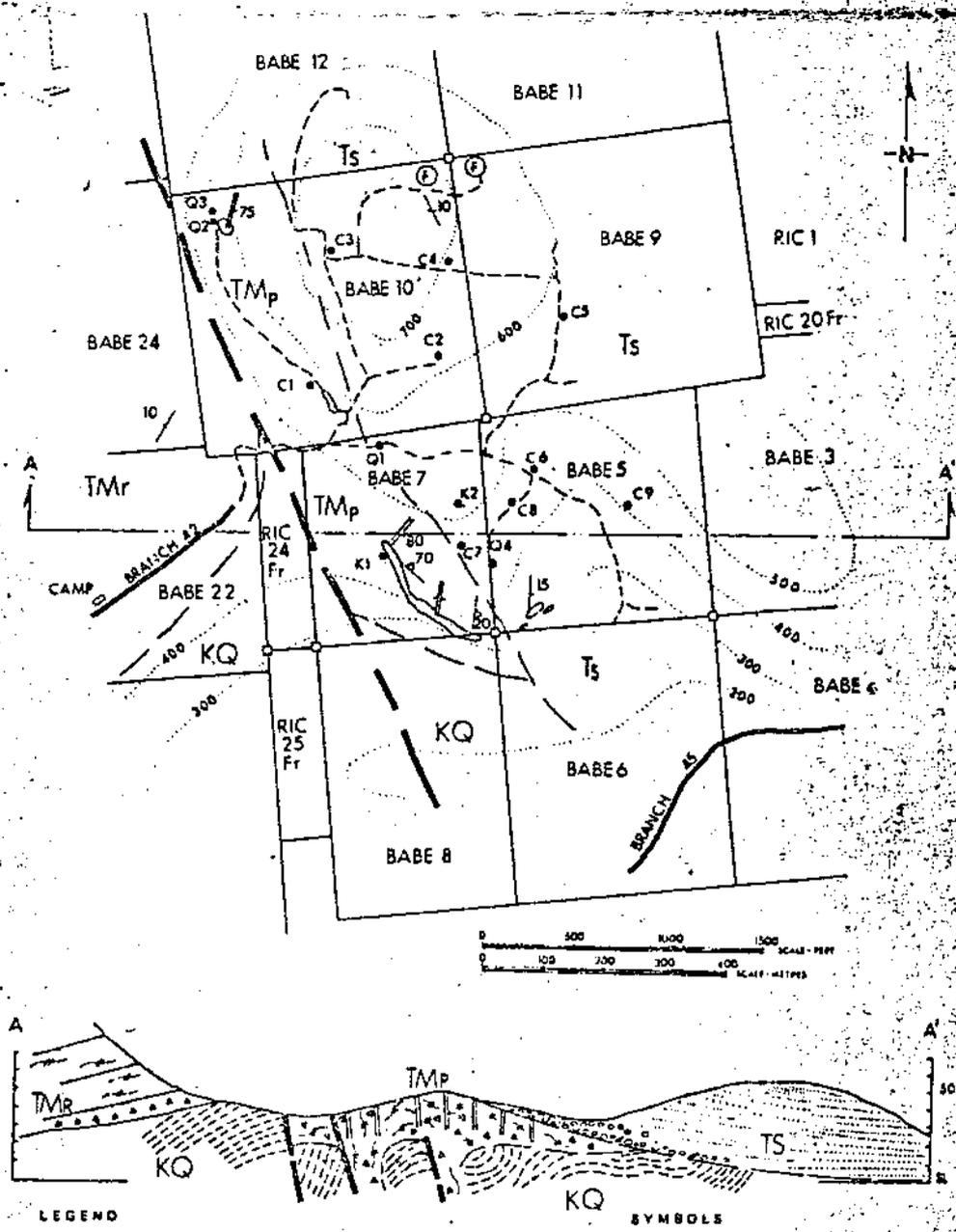
The claim group is believed to be lying across the Sandspit fault, or strands of it.

On the west side Massett Formation ash flows overlie Massett porphyritic rhyolite, which in turn overlies the Queen Charlotte argillites.

On the east, the Skonun conglomerates, and sandstone, overlies the rhyolites.

In the area of interest the rhyolites outcrop and are very highly brecciated, and silicified, with

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- 4] General Geology Map [Follows page 4]  
 5] B.C. Department of Mines & Petroleum Resources, Bull. 54, Geology of the Queen Charlotte Islands, A. Sutherland Brown, 1968  
 6] B.C. Department of Mines & Petroleum Resources, Geological Field Work 1975. Report on the Babe Gold Prospect, Queen Charlotte Islands by A. Sutherland Brown, T.G. Schroeter



- LEGEND**
- Ts** SKONUN FORMATION, CONGLOMERATE, SANDSTONE
  - TMr** MASET FORMATION, RHYOLITE ASH FLOWS
  - Tmp** MASET FORMATION, PORPHYRITIC RHYOLITE
  - KQ** QUEEN CHARLOTTE GROUP, ARGILLITE
- SYMBOLS**
- ⊕ FOSSILS
  - DIAMOND-DRILL HOLE  
K = KENCO '71  
C = COMINCO '72  
Q = QUINTANA '74
  - ⚡ FLUXION STRUCTURE
  - VEIN ORIENTATIONS
  - CONTOURS IN FEET

Figure 12. Geological sketch map and section, Babe gold prospect.

**CONSOLIDATED CINOLA MINES LTD.**

VANCOUVER, B.C.

**SPECOGNA GOLD PROSPECT**

QUEEN CHARLOTTE ISLANDS, B.C.

**GENERAL GEOLOGY MAP**

Date: Oct 17 1977

Scale, As shown

stringers of quartz, which is chalcedonic, vuggy and limonite stained. Dark inclusions, carbonaceous, may be argillite.

Ash is also included. Some of the rhyolite is definitely porphyritic.

North of the area being drilled the "Marino showing" where Specogna mined and shipped free gold ore, there is a buff-coloured rhyolite porphyry cut by a stockwork of fine quartz veinlets striking N20E, dipping steeply eastwards.

Specogna's shipments were:

0.645 tons @ 16.45 oz Au, 6.72 oz Ag/ton  
 1.72 tons @ 3.40 oz Au, 1.52 oz Ag/ton  
 3.80 tons @ 2.65 oz Au, 2.450 oz Ag/ton  
 Silica ran plus 90%

The above is a simplified version of the geology, from observations, and the references.

DIAMOND DRILLING: 7] 8] 9] 10]

Two thousand two hundred and twenty four feet were drilled in thirteen holes in the period July to October this year, all with BX cores.

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7]	Drill Hole Plan	[back pocket]
8]	Drill Hole Sections	[Appendix A]
9]	Assay Certificates	[Appendix B]
10]	Drill Hole Logs, 1977	[Appendix C]

The grid was on 100 foot centres, based on Cominco DDH 72-1 as the northwest corner.

Reference to the sections shows that the most westerly holes were comparatively short, and increase in depth to the east and south, and that four holes bottomed in ore.

All holes were split on five foot sections after logging. All assaying was done by Bondar-Clegg of North Vancouver, using fire assaying methods. A check was run by General Testing Laboratories of Vancouver. The differences were negligible, and the results are believed to be perfectly accurate.

One series of holes was run for silver, which averages 0.12 oz Ag/ton.

#### DRILL HOLE GEOLOGY, MINERALOGY:

As four different people logged the core, including Cominco DDH 72-1, there are some differences of interpretation. For the purposes of this report, the geology has been generalized on the sections. Full interpretations are on the enclosed logs.

The material in the cores is generally rhyolite, well brecciated, and healed with chalcedonic quartz. The colour varies from black to light grey, depending on the amount of argillite and/or carbonaceous material included. A large portion of the rhyolite is porphyritic, although it is often difficult to see the phenocrysts.

An ash bed occurs in several holes and it is possible to trace it between holes. It is flat lying.

The most westerly holes were bottomed in a mud that is probably ash, and is followed by more massive argillites, and the basement rock.

There are sections of chalcedonic quartz veining within the core varying from a few inches to several feet. This is usually limonite-stained, vuggy, and carries little mineralization.

Most of the mineralization appears to be associated with the darker breccias [argillite-rhyolite breccia ?, carboniferous ?] in the form of very fine pyrite, and a little marcasite. In the light grey rhyolite porphyry breccia, there occurs a very fine lace-work of black lines which carries a considerable amount of pyrite, sufficient to bring it up to ore grade.

Cinabar was noted in the top of CC 77-9.

The following holes are worthy of special interest:

CC 77- 3	185 ft. @ 0.070	last 5 ft. @ 0.087	not bottomed
77- 9	120 ft. @ 0.094	not bottomed	or 95 ft. @ 0.103
77-10	120 ft. @ 0.090	not bottomed	
77-11	185 ft. @ 0.067	not bottomed	
77-12	195 ft. @ 0.094	last 5 ft. @ 0.31	not bottomed
77-13	190 ft. @ 0.077	last 5 ft. @ 0.042	not bottomed

and all require deepening to the basement rocks.

#### ORE RESERVES:

The drill indicated reserves were calculated by assuming that:

a) The ore is flat lying.

- b] The area of influence of each hole extends half way to the next hole, or 50 feet around it.
- c] Cut-off is at .050 for high grade and .035 bottom cut-off. These are arbitrary selections.

In the first calculation some sections of the bed were left out as they might be in actual mining.

The second calculation included these same sections, resulting in a slightly lower grade, and an increase in tonnage.

These preliminary calculations give the following estimates:

- a] 1,340,000 tons @ 0.0360 oz/ton - gold
- b] 1,440,000 tons @ 0.0796 oz/ton - gold

These include Cominco hole 72-1, and Quintana hole PQ-5.

It should be noted that this estimate is preliminary, and subject to a full scale feasibility study, and that the tonnage-grade figures can be considerably altered by raising or lowering the cut-off grade, which, itself, is subject to the economics at the time of mining. A mining company in Nevada, is breaking 8,000 tons of ore and 3,000 tons of waste per day. Their grade is 0.06 oz gold per ton, with a cut-off at 0.02.

It should also be noted that the area drilled is only 3-6% of the total area defined by Quintana as being of greatest interest and that the lower priority areas extend

to the north and west, and to the south and east, as defined by their soil sampling and geological mapping, nor does it include the Merino showing where Specogna found free gold, and shipped it. 11]

Mr. M.R. Wolfhard suggested that this deposit could possibly contain 50 million tons grading 0.06 oz/ton, in an address he gave to a CIMM Convention in Vancouver, October, 1976. Present work appears to better that grade, and deeper holes should increase the tonnage rapidly.

#### METALLURGY:

Quintana had some preliminary work done by Southwestern Laboratories, Tucson, Arizona. Their work included, cyanidation, chlorination of the raw samples, flotation and cyanidation, and chlorination of the float portion.

They also tried high temperature and low temperature roasting, followed by cyanidation.

The high temperature roasting-cyanidation gave better than 90% recovery, which was the most successful of the methods tried.

These results are really inconclusive, and considerably more work is required.

#### CONCLUSIONS:

The 1977 drilling can be considered as highly successful in that it is indicating a potentially higher

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11] Quintana Minerals Corporation, Map Geology and Geochemistry November 19, 1974 [back pocket]

~~grade with larger tonnages~~ than has been indicated in the past, within what is considered the most favourable area, and further work is justified.

The past metallurgical studies are inconclusive, and more work is required in that area.

RECOMMENDATIONS:

It is recommended that at least 4,000 feet more drilling be done.

This would include deepening holes Nos. 77-10, 11, 12, and 13, to the basement with the machine now on the property.

Obtain a second drill, capable of drilling to 500 feet or more, and continue the drill pattern to the east and south, drilling to the basement rocks on a wider pattern, say 200 feet.

Engage a metallurgical consultant to continue metallurgical studies.

COST ESTIMATES:

Assuming 4,000 feet to be drilled.

Time 3 months, big machine two shifts, small machine single shift.

Supply tents, frames, winterizing, stoves, kitchen	\$ 1,800.00
Fuel, propane, oil	300.00
Transportation [to drillsite and back]	3,000.00
Cook	3,600.00
Food	3,600.00
New Hoses	400.00
Drill 4,000 feet @ \$17.50/ft.	70,000.00
Assaying 800 @ \$5.00	4,000.00
Bombadier Rental	4,500.00
Engineering, core logging & splitting, etc.	12,000.00
Metallurgical Test Work	10,000.00
	<hr/>
Sub-total	\$113,200.00
10% Contingencies	11,320.00
	<hr/>
Total	<u>\$124,520.00</u>
	<hr/>
Say	<u>\$125,000.00</u>

Respectfully submitted,

A.F. Roberts, P.Eng.

CERTIFICATE

I, A.F. Roberts of 812 Fairbrook Crescent, Richmond, B.C., do hereby certify that:

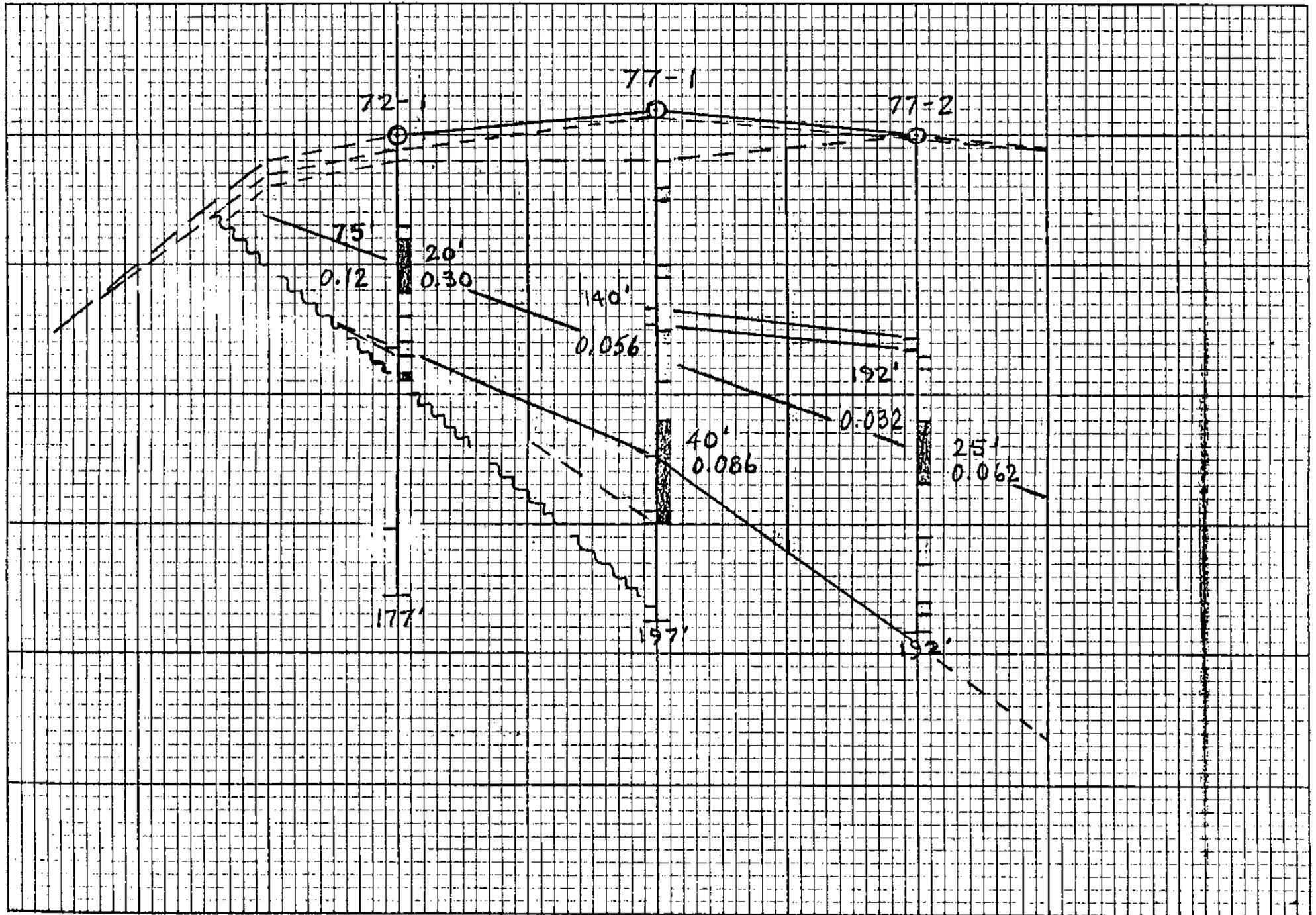
- [1] I am a graduate of the University of British Columbia [B.Ap.Sc.] in Mining Engineering, 1951.
- [2] I am registered as a Professional Engineer of the Province of British Columbia, and am a member of The Canadian Institute of Mining and Metallurgy.
- [3] I have practiced my profession since 1951 with Quatsino Copper Gold Mines Ltd., Giant Mascot Mines Ltd., Coch-enour Willens Gold Mines Ltd., Mogul Mines Ltd., Kerr Addison Gold Mines Ltd., Atlantic Coast Copper Corporation Ltd., Wasamac Mines Ltd., Brenda Mines Ltd., and T.C. Explorations Ltd. Since January of 1970 I have been an independent Consultant.
- Previous to, and during University, I worked as a miner underground, and on several exploration-development projects.
- [4] The accompanying report is based entirely on my personal analysis of the reports and other data referred to in the text, and on visits to the property on July 4 - 7 and August 16 - 19, and September 27 - October 1, 1977.
- [5] I have no interest, direct or indirect, in the Consolidated Cinola Mines Ltd. property, or adjacent properties, nor have I any interest, direct or indirect, in any companies controlled by Consolidated Cinola Mines Ltd. I have not, nor do I expect to receive any interest in the shares of the Company, in its securities, or in those of any company with which it may become associated.
- [6] I consent to the use of this report, in or in connection with, a prospectus, or a statement of material facts relating to the raising of funds for this project.

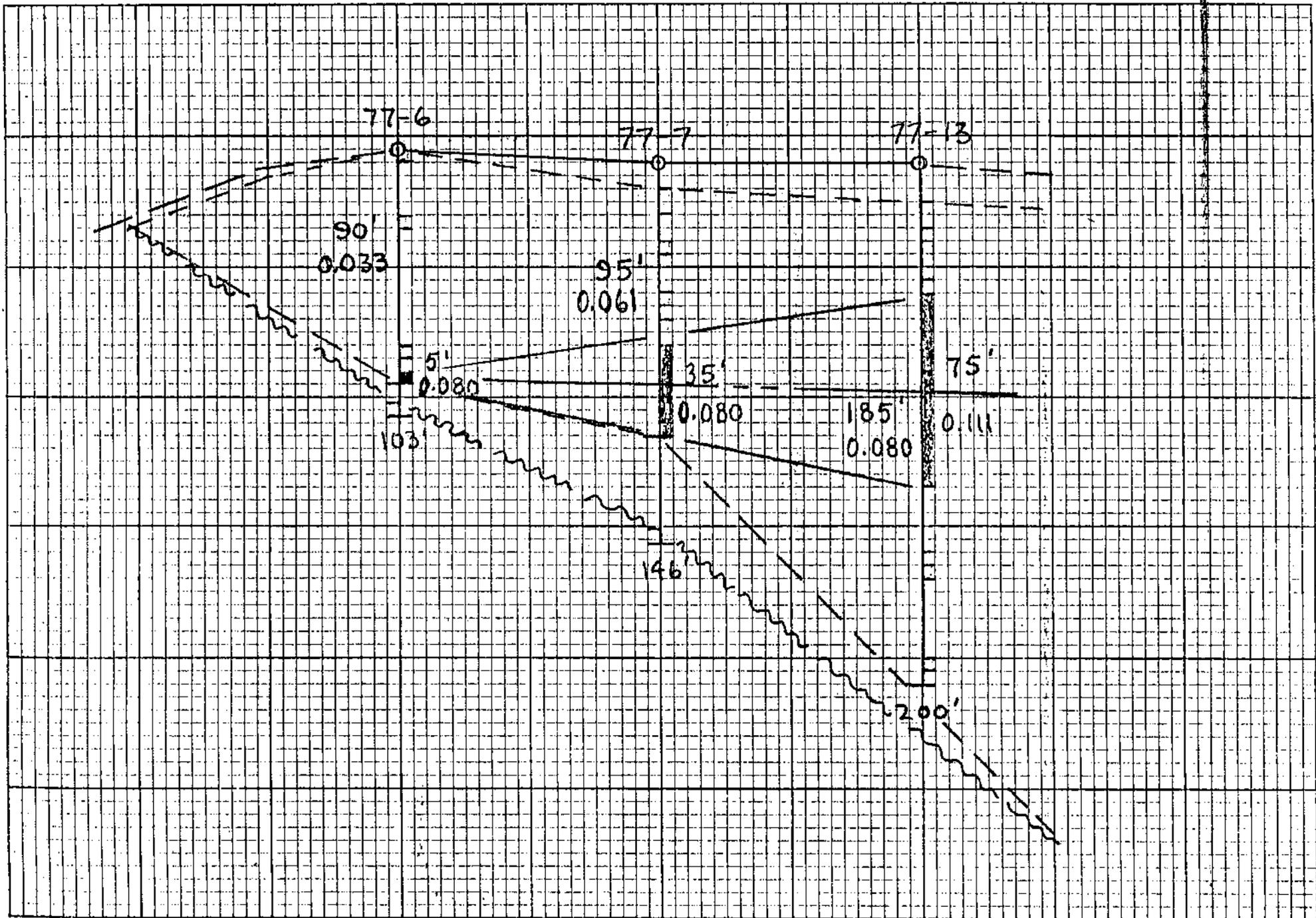
DATED at Vancouver, British Columbia this seventeenth day of October, 1977.

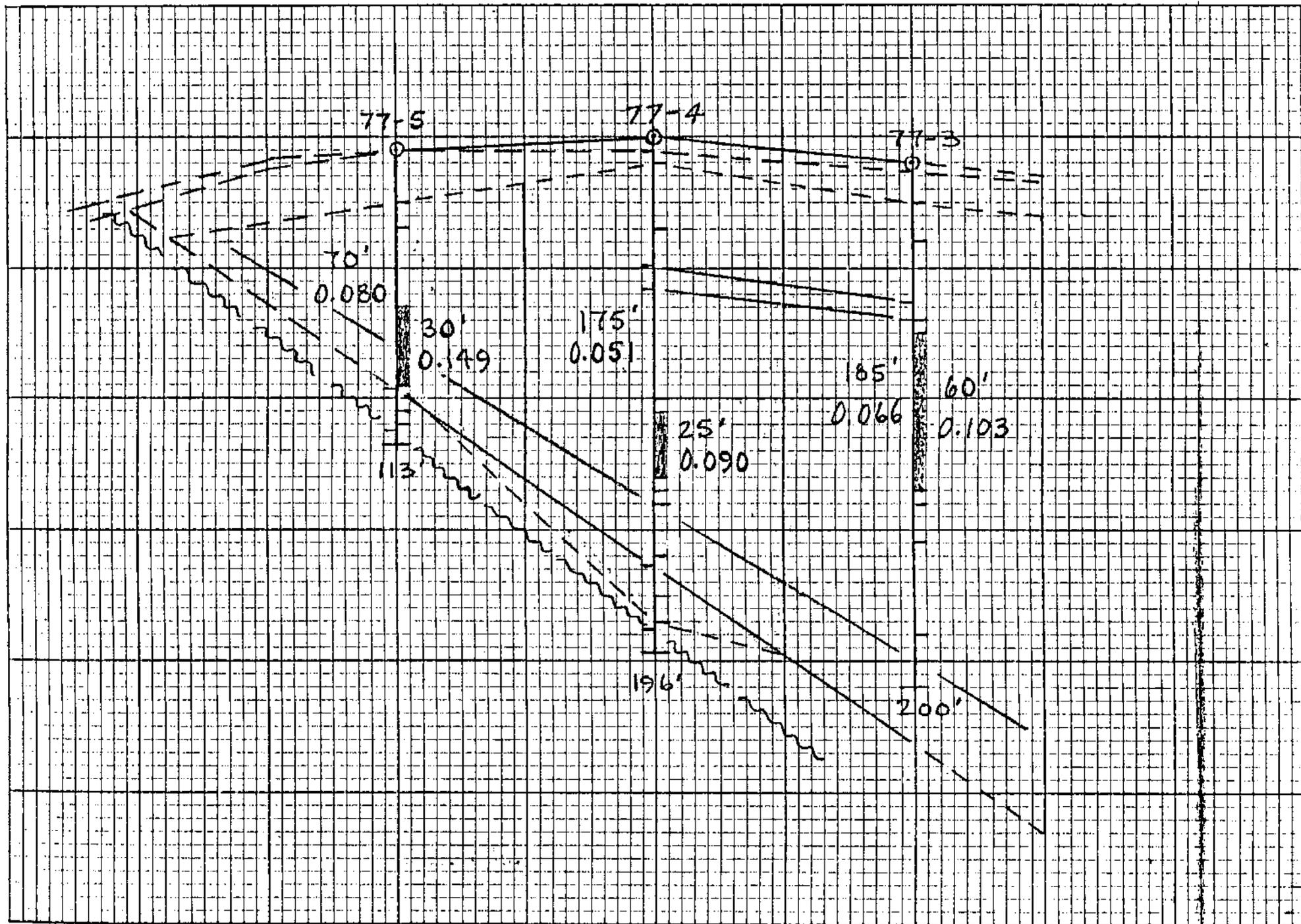
A.F. Roberts, P.Eng.

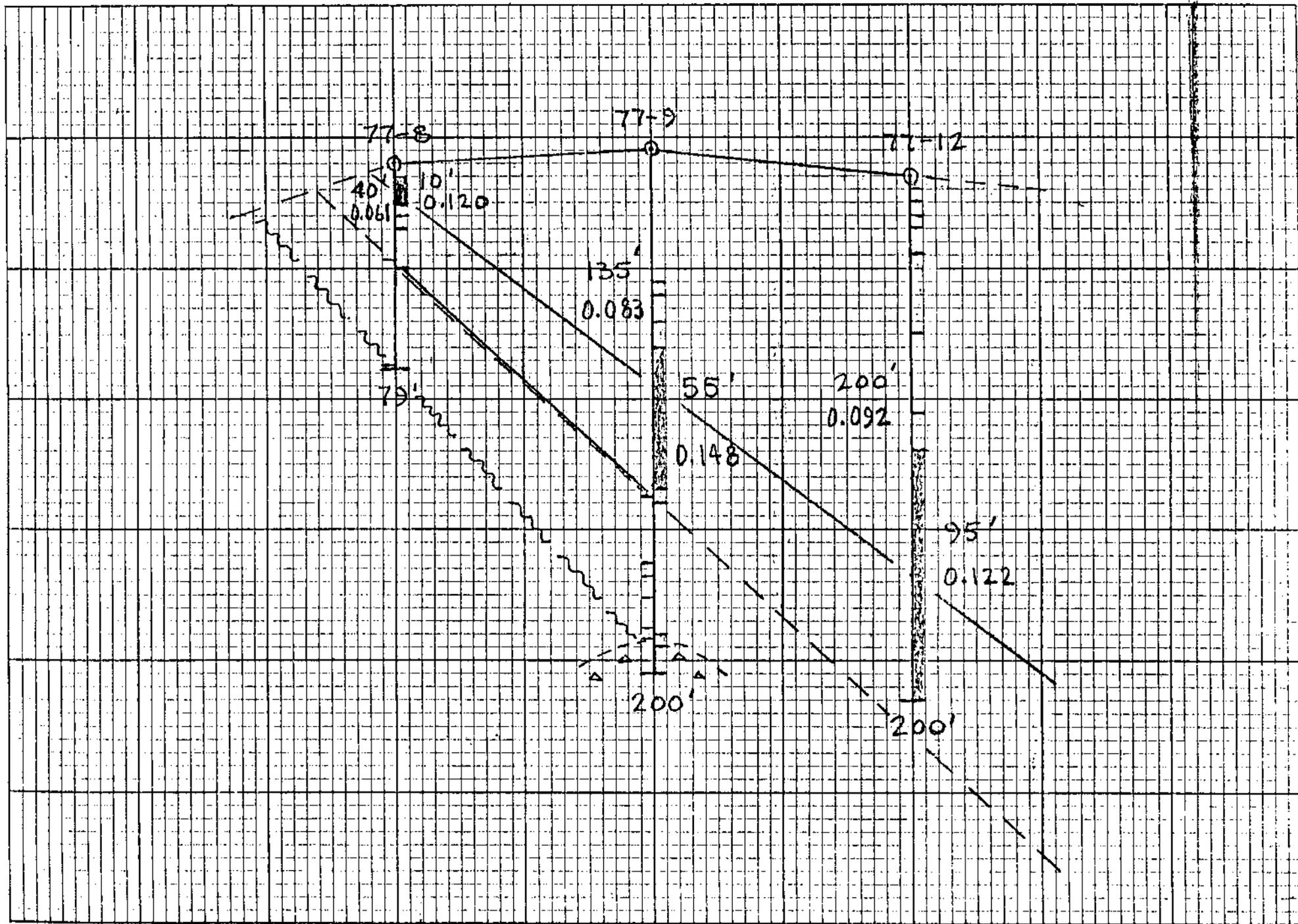
APPENDIX A

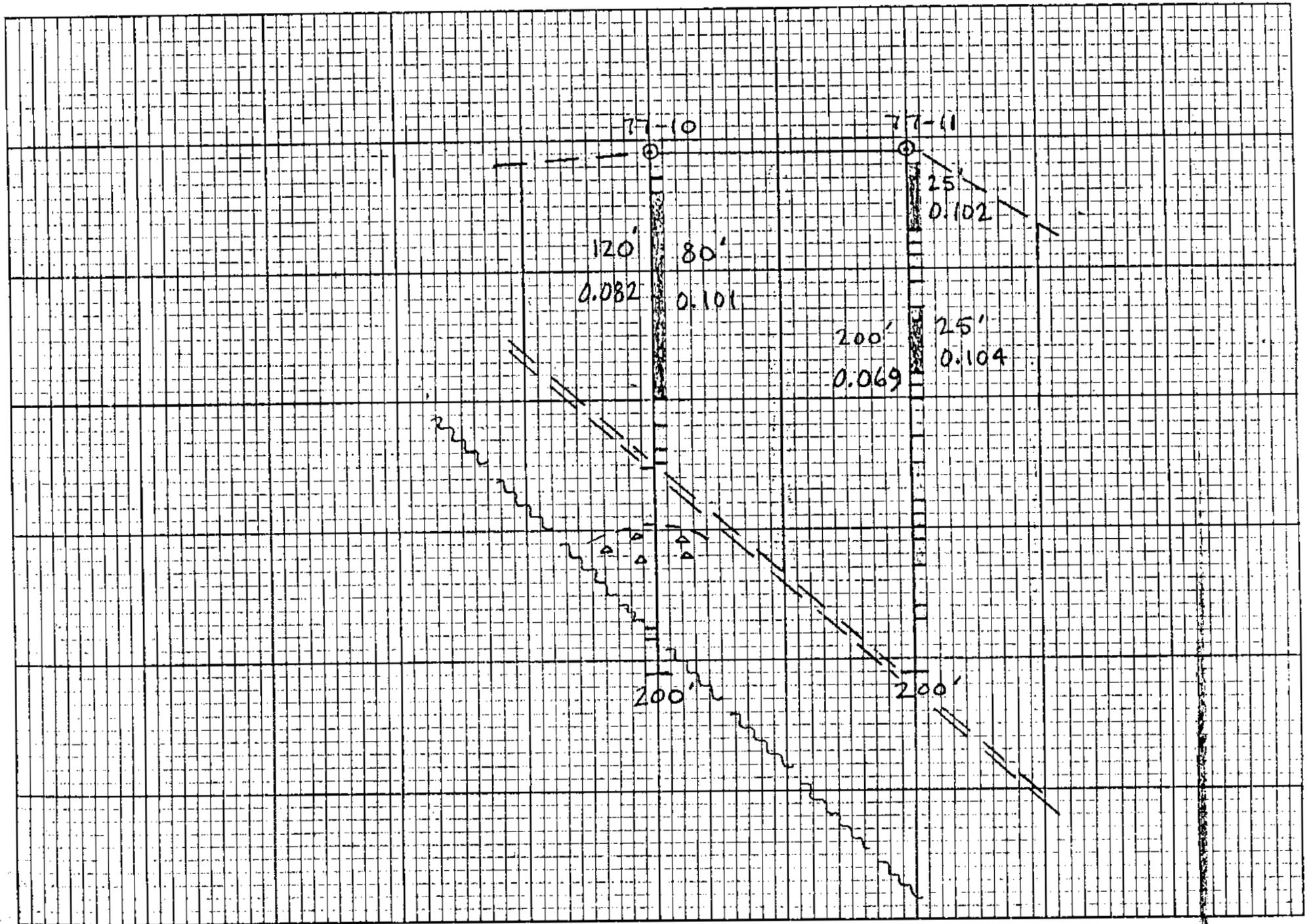
DRILL HOLE SECTION



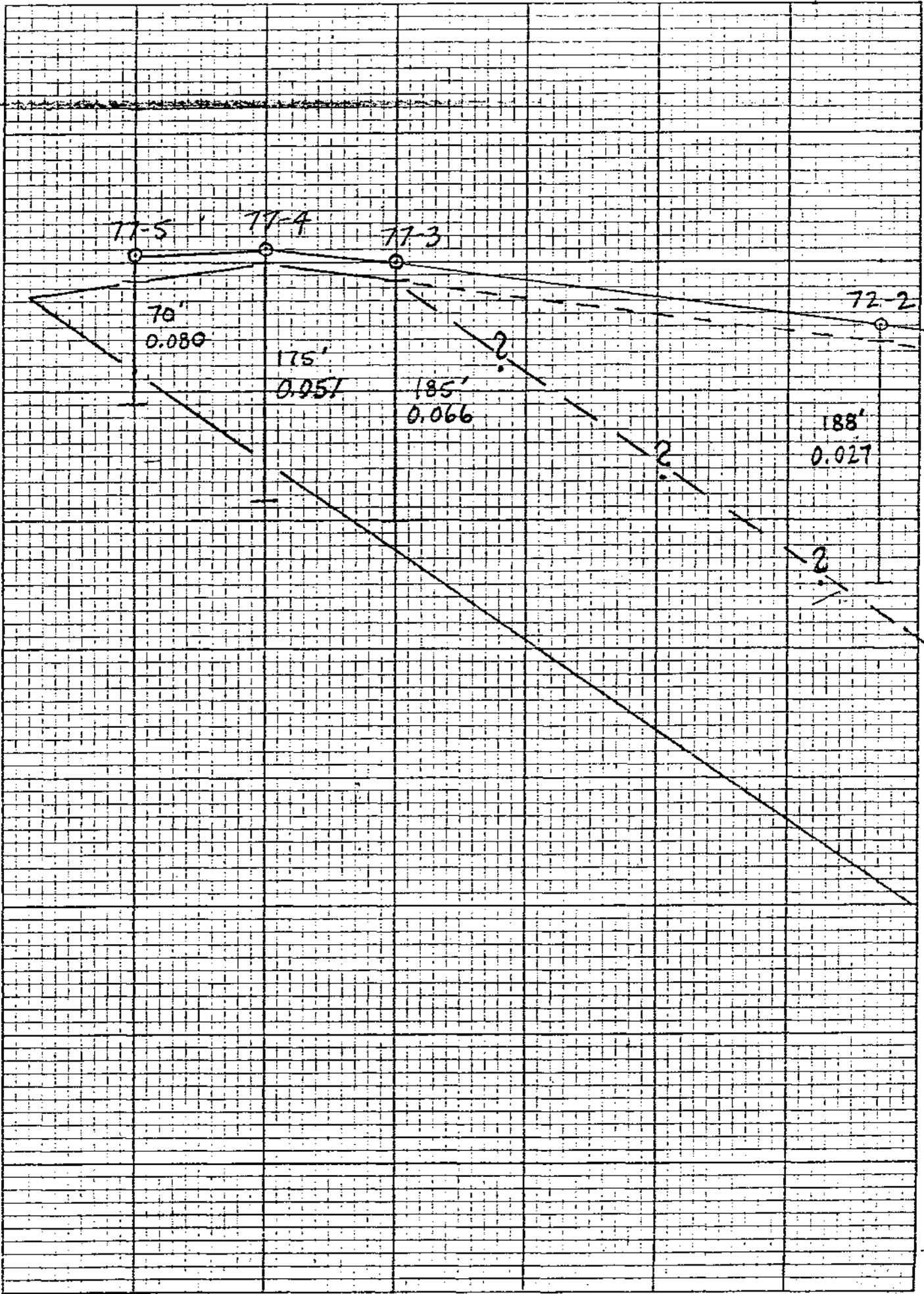








700



APPENDIX B

ASSAY CERTIFICATES

B.C.

geochemists • assayers • analytical chemists

**BONDAR-CLEGG & COMPANY LTD.**

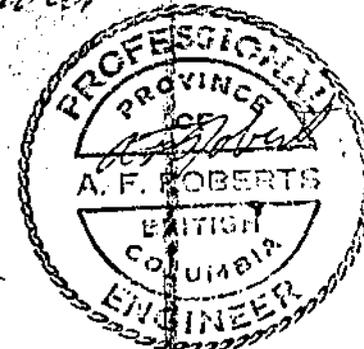
1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.  
 PHONE: 988-5315 TELEX: 04-54554

*W. J. Roberts*

**CERTIFICATE OF ASSAY**

TO Mr. A. F. Roberts .....  
 8120 Fairbrook Crescent .....  
 Richmond, B.C. ....

A27 - 372  
 July 15, 1977



I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	AU oz/Lon	MARKED	AU oz/Lon	MARKED	AU oz/Lon
AL 1	0.010	AL 23	0.012	AL 45	0.016
2	0.015	24	0.019	46	0.027
3	0.018	25	0.084	47	0.028
4	0.019	26	0.059	48	0.017
5	0.028	27	0.061	49	0.019
6	0.044	28	0.054	50	0.011
7	0.052	29	0.040	51	0.017
8	0.047	30	0.013	52	0.022
9	0.038	31	0.029	53	0.016
10	0.023	32	0.350	54	0.015
11	0.026	33	0.011	55	0.011
12	0.024	34	0.031	56	0.026
13	0.086	35	0.005	57	0.055
14	0.034	36	0.004	58	0.025
15	0.043	37	0.004	59	0.021
16	0.026	38	0.004	60	0.029
17	0.032	39 190-197	0.003	61	0.022
18	0.055	40	0.026	62	0.096
19	0.058	41	0.011	63	0.022
20	0.063	42	0.024	64	0.065
21	0.066	43	0.026	65	0.067
22	0.038	44	0.024	66	0.040

DPH77-2 DPH77-1

**NOTE:**  
 Rejects retained two weeks  
 Pulps retained three months  
 unless otherwise arranged.

*[Handwritten signature]*



BONDAR-CLEGG & COMPANY LTD.

geochemists • assayers • analytical chemists

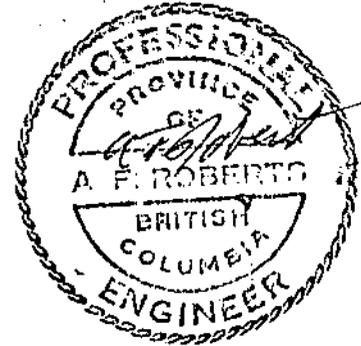
1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.  
PHONE: 988-5315      TELEX: 04-54554

CERTIFICATE OF ASSAY

TO ...Consolidated Cinola Mines Ltd. ....

A27 - 372

Page 2



I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	AU oz/Ton	MARKED	Percent	MARKED	Percent
AL 67	0.031				
68	0.021				
69 <u>145-150</u>	0.026				

*A. F. Roberts*

NOTE:  
Rejects retained two weeks  
Pulps retained three months  
unless otherwise arranged.

*[Handwritten signature]*

ECC

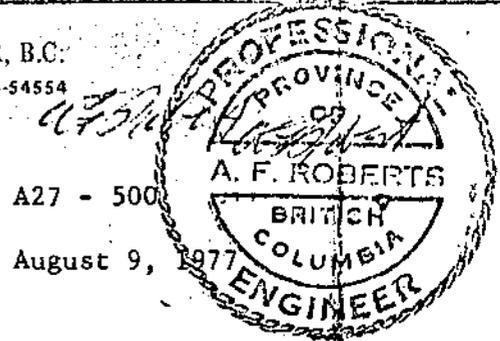
BONDAR-CLEGG & COMPANY LTD.

geochemists • assayers • analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.  
 PHONE: 988-5315 TELEX: 04-54554

CERTIFICATE OF ASSAY

TO Mr. A. F. Roberts  
8120 Fairbrook Crescent  
Richmond, B.C.



A27 - 500  
 August 9, 1977

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	Au oz/ton	MARKED	Au oz/ton	MARKED	Au oz/ton
BILL 1 <u>156'-155'</u>	0.046	BILL 23	0.093	BILL 45	0.035
2	0.060	24	0.12	46	0.055
3	0.054	25	0.11	47	0.055
4	0.030	26	0.14	48	0.090
5	0.040	27	0.18	49 <u>195'-200'</u>	0.087
6	0.044	28	0.072	50	0.022
7	0.062	29	0.085	51	0.055
8	0.043	30	0.072	52	0.065
9 <u>190'-192'</u>	0.044	31	0.11	53	0.075
10	0.022	32	0.11	54	0.10
11	0.010	33	0.086	55	0.058
12	0.020	34	0.062	56	0.029
13	0.12	35	0.048	57	0.027
14	0.051	36	0.056	58	0.033
15	0.054	37	0.077	59	0.018
16	0.039	38	0.054	60	0.029
17	0.040	39	0.041	61	0.044
18	0.012	40	0.019	62	0.044
19	0.029	41	0.030	63	0.021
20	0.033	42	0.046	64 <u>75'-80'</u>	0.010
21	0.030	43	0.032		
22	0.053	44	0.025		

NOTE:  
 Rejects retained two weeks  
 Pulp retained three months  
 unless otherwise arranged.

*A. F. Roberts*  
 Registered Assayer, Province of British Columbia





# BONDAR-GLEGG & COMPANY LTD.

geochemists • assayers • analytical chemists

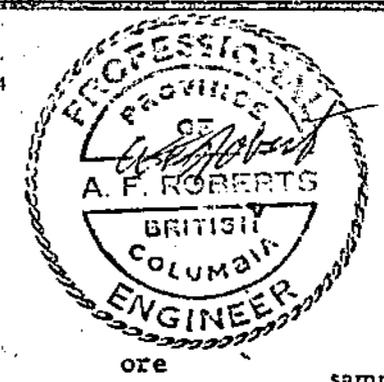
1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.  
PHONE: 988-5315 TELEX: 04-54554

## CERTIFICATE OF ASSAY

TO A. F. Roberts

A27 - 672

Page 2



I hereby certify that the following are the results of assays made by us upon the herein described ore sample

MARKED	Assay oz/ton	MARKED	Percent	MARKED	Percent
	1	<u>2'-5'</u>			
	2				
	3				
	4				
	5				
6					
7					
8					
9					
10					
	11	<u>55'-60'</u>			
	12				

*A. F. Roberts*

cc A. F. Roberts - Richmond

NOTE:  
Rejects retained two weeks  
Pulps retained three months  
unless otherwise arranged.

*A. F. Roberts*

To: Mr. A. F. Roberts

REPORT No 27 - 733

PAGE No. 1

**BONDAR-CLEGG & COMPANY LTD.**

DATE: September 7, 1977

404 - 470 Granville Street

**CERTIFICATE OF ASSAY**

Samples submitted: August 31, 1977  
Results completed: Sept. 7, 1977

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	GOLD		SILVER								TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent		
CA 1	0.056										
2	0.057										
3	0.074										
4	0.073										
5	0.074										
6	0.090										
7	0.090										
8	0.094										
9	0.070										
10	0.035										
11	0.021										
12	0.029										
13	0.019										
14	0.013										
15	0.008										
16	0.006										
17	0.008										
18	0.037										
19	0.12										
20	0.12										
21	0.044										
22	0.064										
23	0.029										
24	0.034										
25	0.038										
26	0.013										
27	0.005										

CC 77-7  
↑  
CC 77-8  
↓

*A. F. Roberts*

  
Registered Assayer, Province of British Columbia

To: Mr. A. F. Roberts

REPORT No A27 - 733

PAGE No. 2

BONDAR-CLEGG & COMPANY LTD.

DATE: September 7, 1977

CERTIFICATE OF ASSAY

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	GOLD		SILVER								TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent							
CA 28	0.013										
29	0.016										
30	0.006										
31	0.004										
32	0.005										
33	0.002										

*AF Roberts*

cc Mr. A. F. Roberts

Registered Assayer Province of British Columbia  


B  
C  
C

**BONDAR-CLEGG & COMPANY LTD.**

geochemists • assayers • analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.  
PHONE: 988-5315

TELEX: 04-54554

**CERTIFICATE OF ASSAY**

*at 5 days*

TO Consolidated Cinola Mines Ltd.  
307 - 850 West Hastings Street  
Vancouver, B.C. V6C 1E1

A27 - 848

September 28, 1977

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	Au REJECTS oz/ton	MARKED	Au REJECTS oz/ton	MARKED	Au REJECTS oz/ton
DA - 1	0.041	DA - 23	0.11	DA - 45	0.12
2	0.015	24	0.087	46	0.14
3	0.025	25	0.068	47	0.12
4	0.040	26	0.12	48	0.090
5	0.033	27	0.060	49	0.082
6	0.042	28	0.033	50	0.095
7	0.043	29	0.014	51	0.11
8	0.029	30	0.016	52	0.12
9	0.028	31	0.013	53	0.10
10	0.041	32	0.018	54	0.095
11	0.064	33	0.037	55	0.056
12	0.017	34	0.020	56	0.078
13	0.034	35	0.025	57	0.093
14	0.060	36	0.007	58	0.11
15	0.060	37	0.006	59	0.085
16	0.097	38	0.050	60	0.044
17	0.091	39	0.013	61	0.025
18	0.17	40	0.012	62	0.054
19	0.19	41	0.050	63	0.050
20	0.34	42	0.054	64	0.049
21	0.21	43	0.035	65	0.029
22	0.15	44	0.12	66	0.029

CC 77-9  
CC 77-10

NOTE:  
Rejects retained two weeks  
Pulps retained three months  
unless otherwise arranged.

*[Signature]*

Registered Assayer, Province of British Columbia



# BONDAR-CLEGG & COMPANY LTD.

geochemists • assayers • analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.

PHONE: 988-5315

TELEX: 04-54554

## CERTIFICATE OF ASSAY

TO Consolidated Cinola Mines Ltd.

A27 - 848

September 28, 1977

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	Au oz/ton	MARKED	Au oz/ton	MARKED	Percent
DA - 67	0.026	DA - 89	0.090		
68	0.029	90	0.039		
69	0.012	91	0.077		
70	0.009	92	0.059		
71	0.009	93	0.14		
72	0.016	94	0.075		
73	0.022	95	0.097		
74	0.012	96	0.11		
75	0.046	97	0.10		
76	0.020	98	0.064		
77	0.009	99	0.027		
78	0.005	100	0.055	95-100	
79	0.019				
80	0.014				
81	0.060				
82	0.14				
83	0.12				
84	0.083				
85	0.10				
86	0.068				
87	0.054				
88	0.004				

CC 77-19

CC 77-11

*Handwritten signature*

**NOTE:**

Rejects retained two weeks  
Pulps retained three months  
unless otherwise arranged.

*Handwritten signature*

Registered Assayer, Province of British Columbia



BONDAR-CLEGG & COMPANY LTD.

geochemists • assayers • analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.

PHONE: 988-5315

TELEX: 04-54554

CERTIFICATE OF ASSAY

*Handwritten signature*

TO Consolidated Cinola Mines Ltd.

A27 - 938

30.7 - 850 Hastings Street

October 12, 1977

Vancouver, B.C. V6C 1E1

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	Au Residue oz/ton	MARKED	Au Residue oz/ton	MARKED	Au Residue oz/ton
X 1	0.18	100-105 3	0.034	Y 25	0.067
2	0.12	4	0.10	26	0.11
3	0.040	5	0.042	27	0.066
4	0.035	6	0.047	28	0.16
5	0.066	7	0.070	29	0.12
6	0.063	8	0.055	30	0.15
7	0.055	9	0.055	31	0.090
8	0.046	10	0.11	32	0.066
9	0.066	11	0.24	33	0.17
10	0.048	12	0.063	34	0.12
11	0.10	13	0.041	35	0.22
12	0.098	14	0.018	36	0.061
13	0.037	15	0.014	37	0.066
14	0.042	16	0.029	38	0.12
15	0.039	17	0.046	39	0.15
16	0.067	18	0.044	40	0.31
17	0.044	19	0.067	Z 1	0.058
18	0.029	20	0.098	2	0.12
19	0.027	21	0.073	3	0.049
20	0.025	22	0.11	4	0.062
Y 12 1	0.047	8-10' 23	0.055	5	0.060
2	0.10	24	0.11	6	0.070

14'-20'

NOTE:

Rejects retained two weeks  
Pulps retained three months  
unless otherwise arranged.

*Handwritten signature*

Registered Assayer, Province of British Columbia



BONDAR-CLEGG & COMPANY LTD.

geochemists • assayers • analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.

PHONE: 988-5315

TELEX: 04-54554

### CERTIFICATE OF ASSAY

TO Consolidated Cinola Mines Ltd. ....

A27 - 938

Page 2

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	Au Present oz/ton	MARKED	Au Present oz/ton	MARKED	Percent
Z 7	0.044	Z 29	0.076		
8	0.17	30	0.043		
9	0.068	31	0.025		
10	0.091	32	0.047		
11	0.17	33	0.033		
12	0.12	34	0.032		
13	0.10	35	0.030		
14	0.14	36	0.052		
15	0.11	37	0.042		
16	0.17				
17	0.13				
18	0.11				
19	0.038				
20	0.064				
21	0.086				
22	0.10				
23	0.078				
24	0.097				
25	0.082				
26	0.058				
27	0.095				
28	0.045				

*Handwritten signature*

NOTE:  
Rejects retained two weeks  
Pulps retained three months  
unless otherwise arranged.

*Handwritten signature*  
Registered Assayer, Province of British Columbia

To: Mr. A. F. Roberts

REPORT No A27 - 571

PAGE No. 1

**BONDAR-CLEGG & COMPANY LTD.**

DATE: August 29, 1977

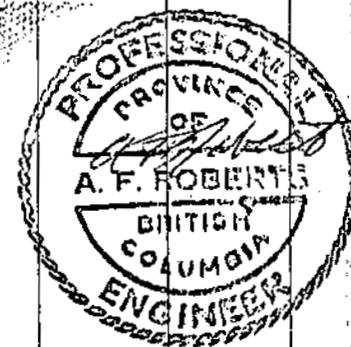
8120 Fairbrook Crescent  
Richmond B.C.

Samples submitted: August 23, 1977  
Results completed: August 29, 1977

**CERTIFICATE OF ASSAY**

I hereby certify that the following are the results of assays made by us upon the herein described composites samples.

MARKED	GOLD		SILVER	Percent	TOTAL VALUE PER TON (2000 LBS.)						
	Ounces per Ton	Value per Ton	Ounces per Ton								
AL 5-14	0.041		0.09								
15-24	0.043		0.04								
25-32	0.089		0.12								
40-49	0.022		0.06								
50-59	0.023		0.16								
60-69	0.044		0.10								
BILL 1- 9	0.045		0.03								
13-22	0.045		0.20								
23-32	0.105		0.19								
33-42	0.050		0.11								
43-49	0.053		0.13								



*A. F. Roberts*  
Registered Assayer, Province of British Columbia

# GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2  
PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERWISE

TO:  
**CONSOLIDATED CINCLA-MINES LTD.**

Attn: Mr. Ken Sander

## CERTIFICATE OF ASSAY

No.: 7707-2657      DATE: August 3/77

We hereby certify that the following are the results of assays on: Ore

MARKED	GOLD	SILVER	XXXX	XXX	XXX	XXX	XXX	XXX
	OZ/ST <del>XXX</del>	OZ/ST GR/MT						
AL - 1	0.007							
2	0.005							
3	0.024							
4	0.009							
5	0.038							
6	0.051							
7	0.055							
8	0.057							
9	0.045							
10	0.025							
11	0.022							
12	0.016							
13	0.104							
14	0.045							
15	0.037							
16	0.004							
17	0.034							
18	0.062							
19	0.052							
20	0.075							
21	0.073							
22	0.052							
23	0.009							
24	0.027							
25	0.088							
26	0.062							
27	0.073							
28	0.059							
29	0.040							
30	0.003							
31	0.033							
32	0.328							
33	0.005							
34	0.037							
35	0.003							
36	0.010							
AL -37	0.004							



7-12-77

/Continued on next page ....

REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS ON REQUEST  
PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

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

*L. WONG*  
PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials - The American Oil Chemists' Society - Canadian Testing Association  
REFEREE AND/OR OFFICIAL CHEMISTS FOR: Vancouver Merchants Exchange - National Institute Of Oilseed Products - The American Oil Chemists' Society  
OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade - Vancouver Merchants Exchange

# GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST. VANCOUVER, B.C., CANADA, V6A 1W2  
PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO:  
**CONSOLIDATED CINOLA MINES LTD.**

## CERTIFICATE OF ASSAY

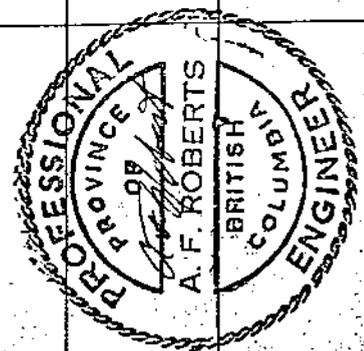
(Continued) .. page 2 ...

No.: 7707-2657

DATE: August 3/77

We hereby certify that the following are the results of assays on: Ore

MARKED	GOLD	<del>XX</del> SILVER <del>XX</del>	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	OZ/ST <del>XXXXXX</del>	OZ/ST GR/MT						
AL - 38	0.008							
39	0.014							
40	0.026							
41	0.012							
42	0.023							
43	0.030							
44	0.017							
45	0.007							
46	0.021							
47	0.022							
48	0.006							
49	0.020							
50	0.011							
51	0.019							
52	0.018							
53	0.010							
54	0.017							
55	0.009							
56	0.024							
57	0.053							
58	0.018							
59	0.014							
60	0.023							
61	0.028							
62	0.113							
63	0.021							
64	0.071							
65	0.073							
66	0.034							
67	0.029							
68	0.013							
AL - 69	0.043							



*A.F. Roberts*

REMARK: All assays are determined by fire assaying on one assay ton weights.

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

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

L. Wong

PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER American Society For Testing Materials • The American Oil Chemists' Society • Canadian Testing Association  
REFEREE AND OR OFFICIAL CHEMISTS FOR Vancouver Merchants Exchange • National Institute Of Orseed Products • The American Oil Chemists' Society  
OFFICIAL WEIGHMASTERS FOR Vancouver Board Of Trade • Vancouver Merchants Exchange

APPENDIX C

DRILL HOLE LOGS, 1977

## DIAMOND DRILL LOG

PROJECT: Specogna Gold Prospect  
 Queen Charlotte Islands HOLE NO. CC 77-1 DATE July 5, 1977

FROM	TO	RECOVERED			DESCRIPTION	Logged by KS
		INT	FT	%		
0	2				Casing	
2	9				Siliceous quartz breccia, limonite stain	
9	16				Siliceous grey breccia	
16	23				Grey banded zone. Banding @ 80° to core. Almost like an ash	
23	39				Rusty siliceous breccia. Off white colour, limonite stain. Crusty qtz. Vugs @ 27'	
39	44				Grey and buff breccia. Pyr @ 40'.	
44	51				Pale, buff, grey rhyolite breccia.	
51	53				Buff grey. Not much breccia	
53	77				Grey breccia. Patches of limonite stain. Some fragments are rounded.	
77	83				Brown-Black shale. Not much breccia. Some banding or bedding @ 80° - 90° to core. May be volcanic ash, or coal.	
83	89				Blacker and more dense, and a little more breccia (shale breccia?)	
89	109				Grey and buff breccia. Pyr. @ 102. Qtz XLS @ 108	
109	121				Carbonate breccia. Creamy buff fragments.	
121	134				Dark grey breccia. May be shale. More qtz. and pyr. Pyrite rims fragments.	
134	155				Uniform black massive shale. Hard. May be O.C. argillites. Some qtz. Overall, more pyr. A little breccia. Bleached white zone and pyr. 149-151 brecciated.	





## DIAMOND DRILL LOG

PROJECT: Specogna Gold Prospect HOLE NO. CC 77-2 DATE July 5, 1977

FROM	TO	RECOVERED		%	DESCRIPTION	Logged by KS
		DWT	FT			
0	1				Casing	
1	30				All silicified agglomerates. Fragments to $\frac{1}{2}$ ". Grey and buff. Patches of limonite stain.	
30	34				As above	
34	42				As above but larger fragments, and more massive. Fair pyrite.	
42	58				Purplish buff, rhyolite breccia. Minor mixed in ash.	
58	78				Calling this sulphide breccia, or agglomerate. Fine grained black matrix. May be pyr. Often completely stained by limonite. Soft.	
78	82				Soft, brown, tuffaceous ash. 2" of coal at 78'. Contact at 60° to core.	
82	87				Sulphide breccia.	
87	121				Very hard siliceous breccia. Almost complete silicification.	
121	139				Carbonate breccia. Scattered pyrite.	
139	152				Hard siliceous alt. with vugs, crystals and massive quartz.	
152	180				Shale breccia. Some rhyolite porph. frags.	
180	192				Mixed carbonate breccia, and shale breccia. Better pyrite 182-192. Some chalcedony alt.	
					End of hole	

DIAMOND DRILL LOGPROJECT: Specogna Gold Prospect HOLE NO. CC 77-3 DATE July 5, 1977

FROM	TO	RECOVERED			DESCRIPTION	Logged by K.S.
		INT	BT	%		
0	4				Casing.	
4	6				Buff and grey breccia. Surface limonite stain.	
6	15				Pale, buff and grey, purplish. Soft and fine grained. Not much breccia.	
15	40				Sulphide breccia. Patches of limonite stain. Traces of bedding @ near horizontal.	
40	48				Dark grey to black ash (?). Bedding. Some carbonaceous material. Traces of stratification @ 70° to core. Some thin streaks of chalcedony.	
48	53				Sulphide breccia. Soft and limonite stained.	
53	60				Fine grained, black tuffaceous. Some carbonaceous material. Thin quartz box work.	
60	63				Sulphide breccia.	
63	67				Fine grained, soft rhyolite. Buff colour.	
67	78				Sulphide breccia. Limonite patches. Fair pyrite.	
78	93				Good grey, coarse breccia.	
93	100				Grey breccia as above, but less quartz and brecciation. Bedding traces near horizontal.	
100	113				Mixed carbonate, and grey breccia. Fair pyrite.	
113	119				Dark grey, argillaceous. Less brecciation	
119	131				Carbonate breccia. Some argillaceous sections.	



DIAMOND DRILL LOGPROJECT Specogna Gold Prospect HOLE NO. CC 77-4 DATE July 5, 1977

FROM	TO	RECOVERED			DESCRIPTION	Logged by K.S.
		INT	FT.	%		
0	6				Casing.	
6	31				Good example of sulphide breccia. Considerable limonite staining. Excellent pyrite throughout. Some fragments are rounded. Possible thin rhyolite dikelets @ 30° to core.	
31	35				Rhyolite breccia. Buff and limonite stained.	
35	38				Mixed sulphide and rhyolite breccia.	
38	40				Purple grey to black tuff.	
40	43				Mixed sulphide and rhyolite breccia.	
43	47				Tuff bed. Some bedding @ 70° to core.	
47	49				Sulphide breccia.	
49	58				Tuff. Purple grey to black. Near horizontal bedding. Some bedding @ 45°.	
58	62				Contact zone. Brecciated.	
62	67				Purplish to buff rhyolite breccia. Brecciation is younger.	
67	74				Dark matrix, coarse breccia, not much quartz. Fair pyrite. Some buff to pale fragments. Fragments are sub-angular to rounded.	
74	84				Light, buff rhyolite breccia. Very pale colour. Almost "off-white".	
					(For balance of hole see next sheet by AFR)	

~~DIAMOND DRILL LOG~~

PROJECT: C.C. Q.C. Property HOLE NO. C.C.DDH 77-5 DATE August 17, 1977

FROM	TO	RECOVERED		%	DESCRIPTION	Logged by AFR
		INT	FT			
0	5			30	Argillite breccia, limonite in frac. No pyrite.	
5	10			90	Rhyolite breccia. Badly broken limonite in frac. Poor pyrite.	
10	25			100	Rhyolite, breccia increasing with depth. Also pyrite. Pyrite very good.	
25	41			100	Rhyolite breccia. Inclusions of argillite breccia. Oxides in fractures. Pyrite poor, except in 1 ft. of Argillite breccia.	
41	47			100	Argillite breccia. 47 ft. - rusty fractures.	
47	69			100	Almost massive argillite. Good pyrite. Some inclusions of rhyolite. Oxides in frac. Fair to good pyrite. Increasing brecciation and pyrite with depth.	
69	75				Rhyolite breccia. Considerable oxidation. Inclusions of argillite. Pyrite fair to poor.	
75	91			80	Badly broken, oxidized, soft, chalky white brecciated. Rhyolite fragments altered.	
91	106			95	Argillite, Argillite breccia. Rhyolite inclusions some oxidation in fractures. Fair pyrite.	
106	113			100	Grey-brown ash, dense, soft. Some fair pyrite.	
					End of Hole	
					Samples D1 - D23	





## DIAMOND DRILL LOG

PROJECT: Specogna Gold Prospect HOLE NO. CC 77-7 DATE August 17, 1977

FROM	TO	RECOVERED			DESCRIPTION	Logged by KS
		INT	FT	%		
0	2				Casing.	
2	26				Pale, buff rhyolite breccia. Broken and considerable core lost. Badly leached and limonite stained. (86% Rec.)	
26	31				Probably as above, but fresher. Some buff rhyolite, and argillite breccia.	
31	34				Carbonate breccia. Good pyrite @ 33'.	
34	64				As above. Short argillaceous sections with good pyrite. Still oxidized and leached. Getting fresher 60-63.	
64	95				Good section of dark argillite breccia, and dark agglomerate fragmental. Weak pyrite.	
95	104				Carbonate breccia, argillaceous, dark. (3' of core lost 93-103).	
104	129				Argillite breccia. Coarse. May be main contact @ 105 with Q.C. argillite, but brecciated into the foot wall.	
129	141				Q.C. argillite. Some ghost brecciation. Wispy marcasite. Otherwise brecciation is absent. Good marcasite @ 140.	
141	146				Argillite. Softer beyond 141. Muddy. No evidence of faulting at contact.	
					Last sample 140 - 146	
					End of hole.	



## DIAMOND DRILL LOG

PROJECT. Specogna Gold Prospect HOLE NO. CC 77-9 DATE Sept. 14, 1977

FROM	TO	RECOVERED			DESCRIPTION	Logged by K.S.
		INT	FT	%		
0	4				Casing	
4	30				Light grey, siliceous, buff breccia. 7-8 shows specks of cinnabar. Fair pyrite all through.	
30	36				Section showing brecciated rhyolite porphyry and fair pyrite	
36	77				Creamy to buff grey, siliceous breccia. Fair pyrite	
77	86				Pinkish grey rhyolite, laced with thin streaks of pyr. Excellent pyrite throughout.	
86	108				Grey to dark siliceous breccia. Argillaceous. Some fragments are completely replaced by pyrite. Typical of the dark breccias. 97-100 shows the best pyrite seen to date. Occasional patches of porphyry.	
108	117				As above, but lighter coloured, and less pyrite.	
117	132				Section characterized by pale green fragments as seen in hole No. 3 @ 188-196	
132	157				Argillite breccia. Some grey rhyolite fragments. Sometimes seems to be grey silica surrounding argillite fragments. Not much pyrite.	
157	162				Pale green rhyolite breccia.	
162	171				Argillite breccia.	
171	183				Carbonate breccia. Faintly porphyritic.	
186	200				Brecciated argillite porphyry. Weak brecciation. Fairly good pyrite in veinlets and $\frac{1}{4}$ " stringers. Light grey creamy.	
					End of hole	











