

January 1980

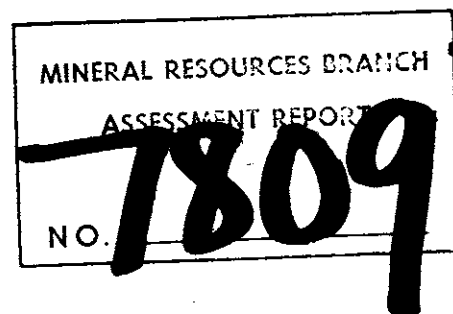
NEWCOAST SILVER MINES LTD.

VAN GROUP

LIARD M.D., B.C.

Lat. 59° 15' N, Long. 129° 40' W

Assessment Report



V. CUKOR, P.ENG. ■ NVC ENGINEERING LTD ■ VANCOUVER, B.C.

TABLE OF CONTENTS

	Page
1. INTRODUCTION	1
2. REVIEW	
2.1 SUMMARY	2 & 3
2.2 CONCLUSIONS	3 & 4
2.3 RECOMMENDATIONS	4 & 5
2.4 COST ESTIMATE	5 & 6
3. PROPERTY	
3.1 CLAIMS	7
3.2 LOCATION	7
3.3 ACCESS	8
3.4 TOPOGRAPHY	8
3.5 CLIMATE	9
4. GEOLOGY	
4.1 GENERAL GEOLOGY	10
4.2 LOCAL GEOLOGY	11 - 13
5. FIELD SEASON 1979 EXPLORATION PROGRAM	
5.1 LINE CUTTING	14
5.2 GEOCHEMICAL SOIL SURVEY	
5.2.1 SAMPLING	14 - 15
5.2.2 LAB PROCEDURE	15 - 16
5.2.3 DATA PRESENTATION	16 - 17
5.2.4 DISCUSSION OF RESULTS	17 - 18
5.3 MAGNETIC SURVEY	
5.3.1 FIELD PROCEDURE	19
5.3.2 DATA PRESENTATION	19
5.3.3 DISCUSSION OF RESULTS	20
5.4 ELECTROMAGNETIC SURVEY	
5.4.1 FIELD PROCEDURE	20 - 21
5.4.2 DATA PRESENTATION	21
5.4.3 SURVEY RESULTS	21 - 23
5.5 DIAMOND DRILL PROGRAM	23 - 25

ILLUSTRATIONS

FIG. 1	CLAIMS & GRIDS	IN TEXT
FIG. 2	LOCATION MAP	IN TEXT
FIG. 3	GEOLOGICAL MAP	IN POCKET
FIG. 4	GRID #1, GEOCHEMICAL MAP (Gold Plot)	IN POCKET
FIG. 5	WEST GRID, GEOCHEMICAL MAP (Gold & Silver Plot)	IN TEXT
FIG. 6	GRID #1, MAGNETIC SURVEY	IN POCKET
FIG. 7	WEST GRID, MAGNETIC SURVEY	IN TEXT
FIG. 8	WEST GRID, EM-16 SURVEY (V.L.F. ST. 18.6 Contour Plan)	IN TEXT
FIG. 9	WEST GRID, EM-16 SURVEY (V.L.F. ST 18.6 Profiled Plan)	IN TEXT
FIG. 10	WEST GRID, EM-16 SURVEY (V.L.F. ST 21.4, Contour Plan)	IN TEXT

Appendix "A"

COSTS & PERSONNEL FOR 1979 EXPLORATION PROGRAM

Appendix "B"

GEOCHEMICAL SOIL SAMPLING #1 GRID
REPEAT GOLD SURVEY

GEOCHEMICAL SOIL SAMPLING #1 GRID EXTENSIONS
WEST GRID AND RECONNAISSANCE LINES

Appendix "C"

DRILL RECORDS AND ASSAY LOGS

NEWCOAST SILVER MINES LTD.

VAN GROUP

CASSIAR, B.C. AREA

1. INTRODUCTION

This report describes the work program and expenditures, and summarizes the results achieved during the 1979 field season.

The program was performed in two stages: The general surveys during the month of August and diamond drilling in October. The first stage of the work consisted of linecutting, geological mapping and sampling of outcrops, geochemical soil survey and geophysical ground magnetic and electromagnetic EM-16 surveys. During this stage, four additional TIN claims were located. The second stage comprised 722 feet of B.Q. diamond drilling completed by D.J. Drilling Co. Ltd, Surrey, B.C.

The electromagnetic survey was performed by S. Presunka Geophysical Explorations Ltd. The soil sampling and magnetic survey was carried out by NVC Engineering Ltd. Geological mapping and overall field supervision was by the author.

2. REVIEW

2.1 SUMMARY

The VAN group is underlain by a volcanic and sedimentary complex of the Silvester Group, host to numerous auriferous quartz veins. The most prominent one is now in production on the Nu-Energy property only a short distance south of the VAN claim. At least three quartz veins were exposed on the property. These were explored in the past by limited trenching and/or aditing. Chip samples returned from .02 to .187 oz/t gold and .05 to 10.24 oz/t silver.

Geochemical soil sampling, geophysical EM-16 EM-17, and ground magnetic surveys were conducted during 1976 and this year. A number of conductive zones were outlined, and in at least four areas geochemical reconnaissance returned excellent gold values in soil.

Three holes, drilled this year, intersected quartz-pyrite ± tetrahedrite veins of which two should be further diamond drilled. In hole #3-79, a 5.3 ft. zone assayed 1.455 oz/t gold and .28 oz/t silver, wherein 1 ft. quartz vein contained metallic gold.

2. REVIEW (Cont'd)

2.1 SUMMARY (Cont'd)

A geochemical reconnaissance line along the new highway returned very high gold values in the area of the 1976 EM-16 anomaly and quartz pyrite veining in andesites. Another zone of high gold values coincided with EM-16 crossover, which was not explored further until recently.

2.2 CONCLUSIONS

Nicola volcanics, containing pyritized quartz veins represent a favourable environment for the exploration of precious metals. The VAN GROUP, surrounded by the producing Nu-Energy property and a number of prospects which are reporting excellent exploration results, represents an excellent exploration target.

No. 1 showing with its size and sporadic but encouraging gold and silver values has to be explored in greater detail by drilling. The vein returning the high gold assays in hole 3 - 79 must also be diamond drilled. A co-inciding electromagnetic and geochemical anomaly with

2. REVIEW (Cont'd)

2.2 CONCLUSIONS (Cont'd)

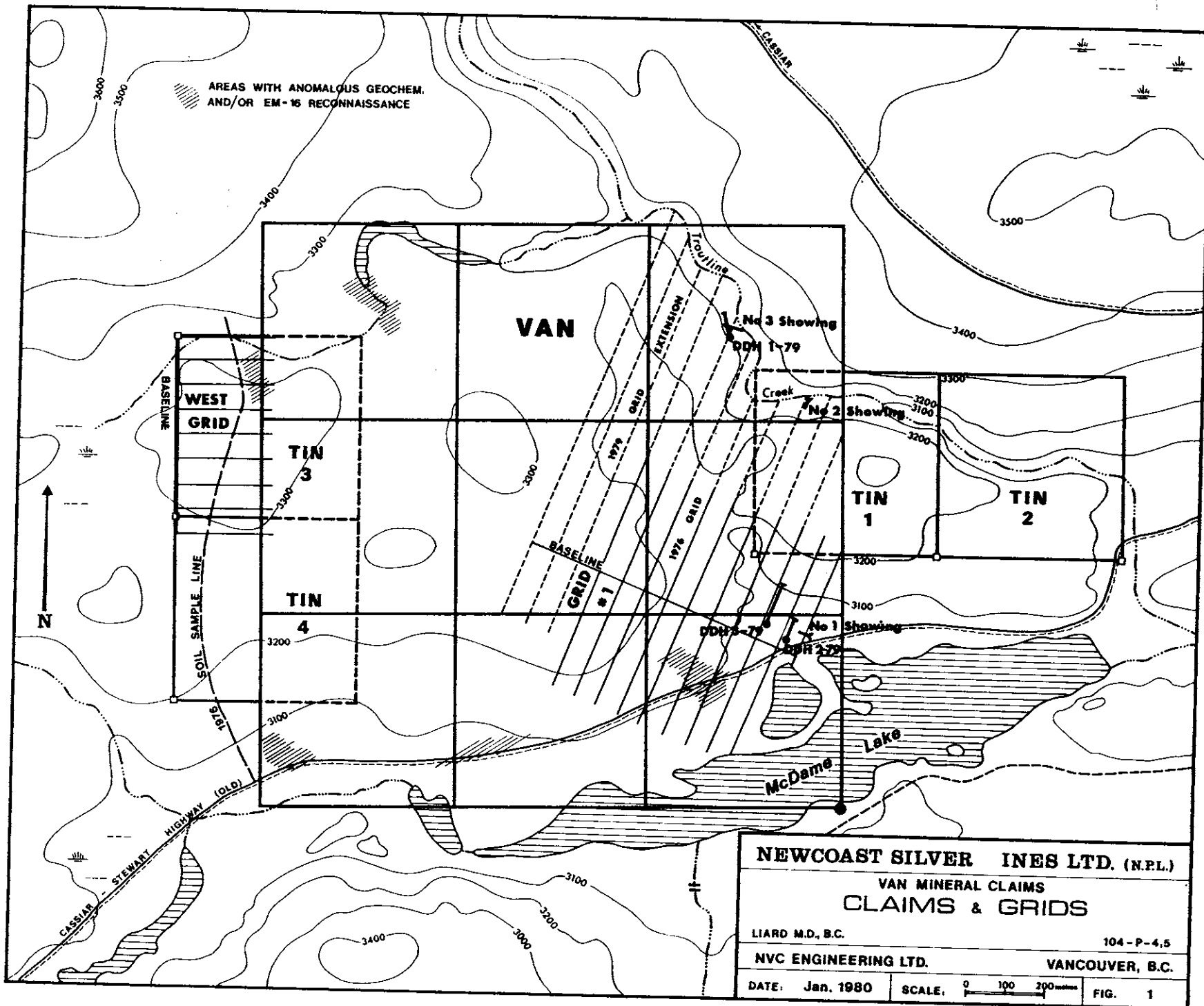
pyritized quartz veins is another target with good potential.

EM-16 survey and geochemical soil sampling combined with a detailed geological mapping program has been a successful exploration tool, proven elsewhere in the same belt and this exploration pattern should be followed on the VAN claim group.

2.3 RECOMMENDATIONS

At least 3,000 ft. of B.Q. diamond drilling will be necessary to :

- explore in greater detail the veins intersected in holes #2-79 and 3-79 and provide necessary information to plan underground exploration
- sample and evaluate areas with co-inciding high geochemical gold, and geophysical EM-16 anomalies
- sample and evaluate the area with co-inciding EM-16 and geochemical silver anomalies on the west grid.



NEWCAST SILVER INES LTD. (N.P.L.)
 VAN MINERAL CLAIMS
CLAIMS & GRIDS

LIARD M.D., B.C. 104-P-4,5
 NVC ENGINEERING LTD. VANCOUVER, B.C.
 DATE: Jan. 1980 SCALE: 0 100 200 meters FIG. 1

2. REVIEW (Cont'd)

2.3 RECOMMENDATIONS (Cont'd)

At least 1,000 ft of additional diamond drilling should be planned for some of the areas with high geochem values and EM-16 anomalies found along the reconnaissance lines. These areas, however, should be explored in greater detail before drilling. At least 15 miles of linecutting, soil sampling and EM-16 and/or EM-17 surveys should be planned for that purpose. For locations see Fig. 1.

2.4 COST ESTIMATE

The following costs are estimated for the completion of the recommended program

1. Linecutting	- 15 miles	3,000.00
2. Geochemical Soil Survey (inc. assays)		4,000.00
3. Electromagnetic surveys		3,500.00
4. Magnetic Survey		1,800.00
5. Diamond Drilling	- 4,000' @ \$20.00	80,000.00
6. Bulldozer (hours)	- 150 @ \$80.00	12,000.00
7. Camp construction and operation		30,000.00

2. REVIEW (Cont'd)

2.4 COST ESTIMATE (Cont'd)

Total Estimated Cost	134,300.00
Engineering and supervision	13,500.00
Contingencies	<u>14,700.00</u>
Total costs	<u>\$162,500.00</u>

3. PROPERTY

3.1 CLAIMS

The property consists of thirteen contiguous mineral claims, with record numbers and expiry dates as follows:

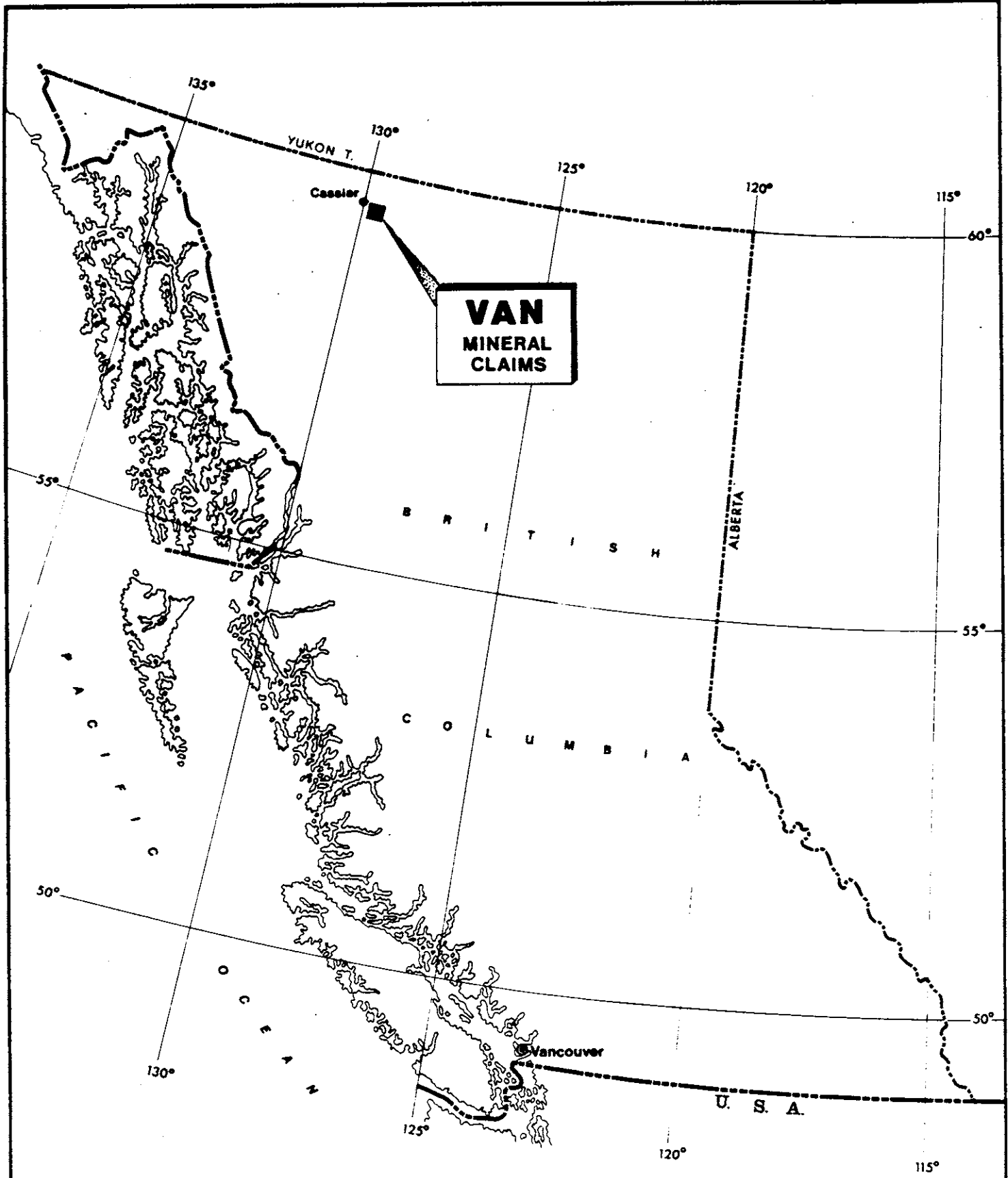
<u>Claim Name</u>	<u>Record No.</u>	<u>Expiry Date</u>
VAN	#84 (9 Units)	March 8, 1983
TIN #1 and #2	#948 & 949	August 1, 1980
TIN #3 and #4	#950 & 951	August 1, 1980

The VAN claim was staked on the grid system and the four TIN claims were located on the two post system, joining the VAN on its West and East limits.

3.2 LOCATION

The property straddles the Cassiar-Stewart Highway north of McDame Lake and west of Troutline Creek. It is located about six air miles south-southwest of the community of Cassiar, B.C. The VAN group is located on N.T.S. Sheets 104-P-4 and 5 in the Liard Mining Division and at north latitude $59^{\circ}15'$ and west longitude $129^{\circ}40'$. It is at an elevation of 3,000 ft. to 3,500 ft. above sea level.

Fig. 2 shows the property location.




NEWCOAST SILVER MINES LTD. (N.P.L.)

**VAN MINERAL CLAIMS
LOCATION MAP**

LIARD M.D., B.C. 104-P-4,5

NVC ENGINEERING LTD. **VANCOUVER, B.C.**

DATE: Jan. 1980. SCALE: 0  100 Miles FIG. 2

3. PROPERTY (Cont'd)

3.3 ACCESS

The property is accessible from both Watson Lake and New Hazelton via the Cassiar-Stewart Highway. From here a number of tote roads provide good access to the various areas. The road distance to Watson Lake and Dease Lake are 160 and 110 KM. The closest airstrips are at Cassiar and Dease Lake and McDame Lake can accommodate float equipped fixed wing aircraft. A daily jet service is provided from Watson Lake to Vancouver, Edmonton and Calgary.

3.4 TOPOGRAPHY

The claims are in a gently rolling country which rises gradually from McDame Lake in a northwesterly direction. The total relief on the property is only 500 - 600 ft. The property is below the timberline and is covered mostly by spruce and jackpine forest with heavy second growth in the burned areas. Dense underbrush consists mostly of scrub birch and covers most of the timbered areas. Thick growths of willows and buck brush are developed in the swamps and creek valleys.

3. PROPERTY (Cont'd)

3.5 CLIMATE

The wider Cassiar area has a variation of the continental climate. June, July and August are the warmest months with an average daily temperature of about 60°- 70°F. Severe temperatures are recorded in January and February with peaks of over 60° F below zero.

In general, the Cassiar mountains area receives moderate precipitation (average about 20 inches annually) of which at least one half falls as snow.

Due to the lower altitude, the climate of the property area is relatively moderate, with a total snow fall of up to 4 ft of packed snow by the end of the winter. Good working conditions generally prevail from May to the end of October.

All water and good quality timber for exploration and development is plentiful on the property.

4. GEOLOGY

4.1 GENERAL GEOLOGY

The geological features of the Cassiar area are shown on G.S.C. Map 1110A McDame, Scale 1" = 4 Miles, which accompanies G.S.C. Memoir #319 of 1963. As shown on this map, the wider property area is underlain by the Silvester Group which forms the central part of McDame Synclinatorium. The western limb of the synclinatorium is in contact with the Cassiar batholith and the eastern limb disappears under extensive cover of glacial and fluvioglacial deposits of the Liard Plains.

The Silvester Group is of Upper Devonian and Lower Mississippian ages and consists of a complex of sedimentary and volcanic rocks such as chert, slate, greywacke, limestone, argillite, quartzite and andesite.

In several locations this geological unit contains various mineral occurrences of which the most numerous are auriferous quartz pyrite veins and veins with tetrahedrite.

4. GEOLOGY (Cont'd)

4.2 LOCAL GEOLOGY

Geological mapping of the claims area was carried out by the author during the month of August. Some difficulties were encountered in reconstructing the structure, since deep overburden hampered mapping attempts over part of the property.

The main units found on the property are: older volcanics and overlaying these, sedimentary rocks. Both units belong to the Silvester Group.

Volcanics are mainly represented by dark green andesite, massive, medium grained to fine grained and moderately fractured. This rock type is locally inter-layered with lighter coloured fine grained tuffs.

Sediments consist of black shales interbedded with dark laminated limestones. Schistosity is in most locations parallel to the bedding. The sediments are overlaying volcanic rocks occupying the centre of the syncline, with an axis trending northwest to southeast. Fine grained pyrite and occasionally graphite are found mostly along

4. GEOLOGY (Cont'd)

4.2 LOCAL GEOLOGY (Cont'd)

the bedding and/or schistosity planes.

Numerous quartz veins are found throughout the property, but mostly associated with volcanic rocks. Generally they are mineralized with pyrite and/or tetrahedrite. The occasional presence of chalcopyrite was also detected. Some of the veins assayed gold and silver, the others are associated with high geochemical gold values in soil. The general trend of veins seems to be east-west or southeast northwest, the usual width of 1 to 8 ft and the usual dip is from 70° to vertical. Intense pyritization silicification and some dolomitization are noted on both walls for a width of several feet. Close to the surface, pyrite is generally deeply oxidized and intensely stains the surrounding rock giving it a conspicuous rusty colour which regularly follows quartz pyrite veins.

Chloritization is a widespread type of alteration of andesites and is commonly associated with epidote, which

4. GEOLOGY (Cont'd)

4.2 LOCAL GEOLOGY (Cont'd)

is often found to fill the fractures, sometimes up to 2 - 3 inches wide.

At least three quartz pyrite ± tetrahedrite veins were partially explored in the past. Widths of these veins were from 2 to 6 ft. and chip samples assayed between .02 to .187 oz/t gold and trace to 10.24 oz/t silver with some additional values in copper.

5. FIELD SEASON 1979 EXPLORATION PROGRAM

5.1 LINE CUTTING

A two man crew was involved in linecutting. During the first part of the project, the grid cut in 1976 was cleared of brush and re-picketed.

Later the grid lines were extended northwards to reach Troutline Creek. After the conductive zone was discovered by EM-16 reconnaissance on the western limit of the property, a 1600 ft. long north-south baseline with 200 ft. spaced, 800 ft long grid lines were cut. During this part of the project, about four miles of dirt road was also cleared of overgrowing brush.

A total of 10 miles of linecutting was performed during this stage of the program.

5.2 GEOCHEMICAL SOIL SURVEY

5.2.1 SAMPLING

During the soil sampling program in 1976, a great number of samples were not assayed for gold since an insufficient amount of soil was collected to provide for representative samples. During the recent program,

5. FIELD SEASON 1979 EXPLORATION PROGRAM (Cont'd)

5.2 GEOCHEMICAL SOIL SURVEY

5.2.1 SAMPLING

a total of 82 samples were collected along the old grid and assayed for gold only. An additional 279 soil samples were taken along the extended grid lines, newly cut western grid and also along the newly constructed highway and along some of the tote roads.

All samples were collected by a stainless steel trowel from shallow pits dug by a mattock. Soil was taken from the "B" horizon preferably, which is usually at a depth of 4 - 8 inches. Samples were packed in standard paper envelopes and marked. They were partially dried in the camp and then delivered for processing to GENERAL TESTING LABORATORIES LTD. of Vancouver, B.C.

5.2.2 LAB PROCEDURE

GENERAL TESTING LABORATORIES LTD. reported that the samples were processed as follows:

A. Gold

1. Sample sifted to: -80 mesh
2. Weight Used 15 grams
3. Bead produced by fire assay dissolved in hot aqua regia

5. FIELD SEASON 1979 EXPLORATION PROGRAM (Cont'd)

5.2 GEOCHEMICAL SOIL SAMPLING

5.2.2 LAB PROCEDURE

A. Gold

- | | |
|----------------------------|--------------------------------|
| 4. Volume of dilution used | 5 mil |
| 5. Method of Analysis | Atomic Absorption Spectrometry |
| 6. Instrument | Jarill Ashe 850 |

B. Silver & Copper

- | | |
|----------------------------|--------------------------------|
| 1. Fraction used | - 80' mesh |
| 2. Weight of sample | 2 grams |
| 3. Dissolved in | Nitric Acid |
| 4. Volume of Dilution Used | 5 mil |
| 5. Method of Analysis | Atomic Absorption Spectrometry |
| 6. Instrument | Jarill Ashe 850 |

5.2.3 DATA PRESENTATION

Two plans with geochemical values are presented in this report, both in the 1" = 200 ft. scale. Fig. 4 shows gold and silver values plotted on the north part of the grid #1, with outlines of anomalous zones. All gold values were obtained from 1979 sampling, while some of the silver values were taken from the 1976 program.

5. FIELD SEASON 1979 EXPLORATION PROGRAM (Cont'd)

5.2 GEOCHEMICAL SOIL SAMPLING

5.2.3 DATA PRESENTATION

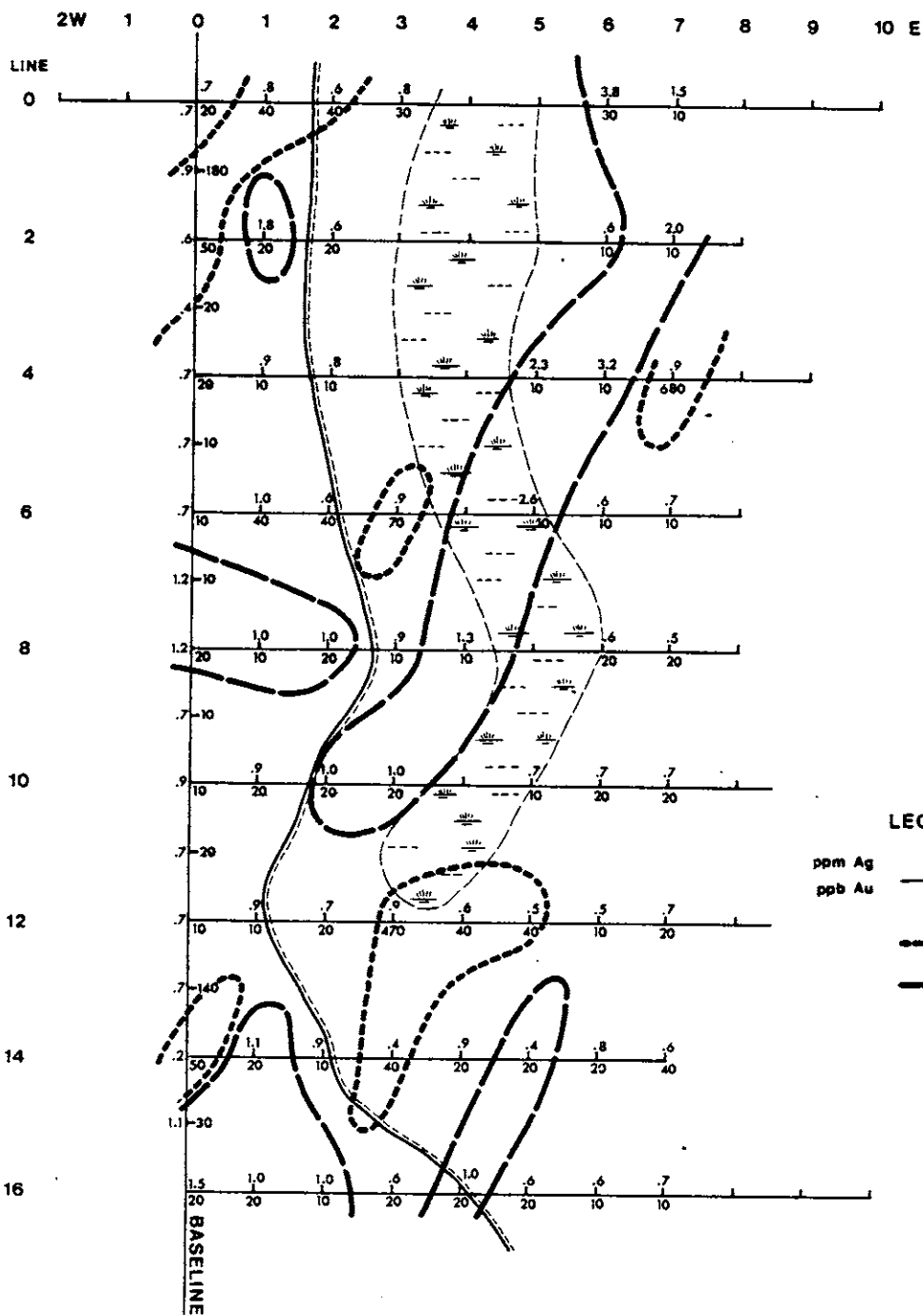
Fig. 5 shows the gold and silver plot over the West grid area. Sample locations along the reconnaissance lines and geochemical gold assays are shown on Geological Map, Fig. 3.

All values are reported by GENERAL TESTING LABORATORIES LTD. and are appended in the Certificates of Assay, at the end of the report.

5.2.4 DISCUSSION OF RESULTS

In this report, no attempt has been made to exercise statistical evaluation of the assay results. However, based on the author's long experience in the area, values of over 40 ppb gold and 1 ppm silver are considered anomalous.

A number of gold and/or silver low and moderately high anomalous values are found along the grid lines on grid #1. However some high and very high values are also found with peaks of 1500 ppb gold and 5.1 ppm silver.



LEGEND

- ppm Ag $\frac{9}{30}$
- ppb Au $\frac{1}{30}$
- Soil sample location
- Anomalous gold
- Anomalous silver

NEWCOAST SILVER MINES LTD (N.P.L.)

**VAN MINERAL CLAIMS
WEST GRID
GEOCHEMICAL MAP
GOLD & SILVER PLOT**

LIARD M.D. B.C.

104-P-4.5

NVC ENGINEERING LTD.

VANCOUVER, B.C.

DATE: Jan. 1980

SCALE:

FIG. 5

5. FIELD SEASON 1979 EXPLORATION PROGRAM (Cont'd)

5.2 GEOCHEMICAL SOIL SAMPLING

5.2.4 DISCUSSION OF RESULTS

The most interesting are areas with co-inciding gold and silver anomalies, especially where they fall in the vicinity of EM-16 anomalies.

On the west grid, several sporadic anomalous gold values were recorded, highest 680 ppb Au. The most interesting of the silver anomalies is extending from the N.E. corner of the grid toward the centre with a peak of 3.8 ppm Ag. The total explored length of this anomaly so far is over 800 ft., although the anomaly itself may still extend the full length of the grid in the westerly direction. Followup grid extension and more detailed sampling is required for this area.

Some outstanding gold values were encountered along the reconnaissance lines, coinciding with EM-16 conductors on at least two locations. This area should also be explored in greater detail.

5. FIELD SEASON 1979 EXPLORATION PROGRAM (Cont'd)

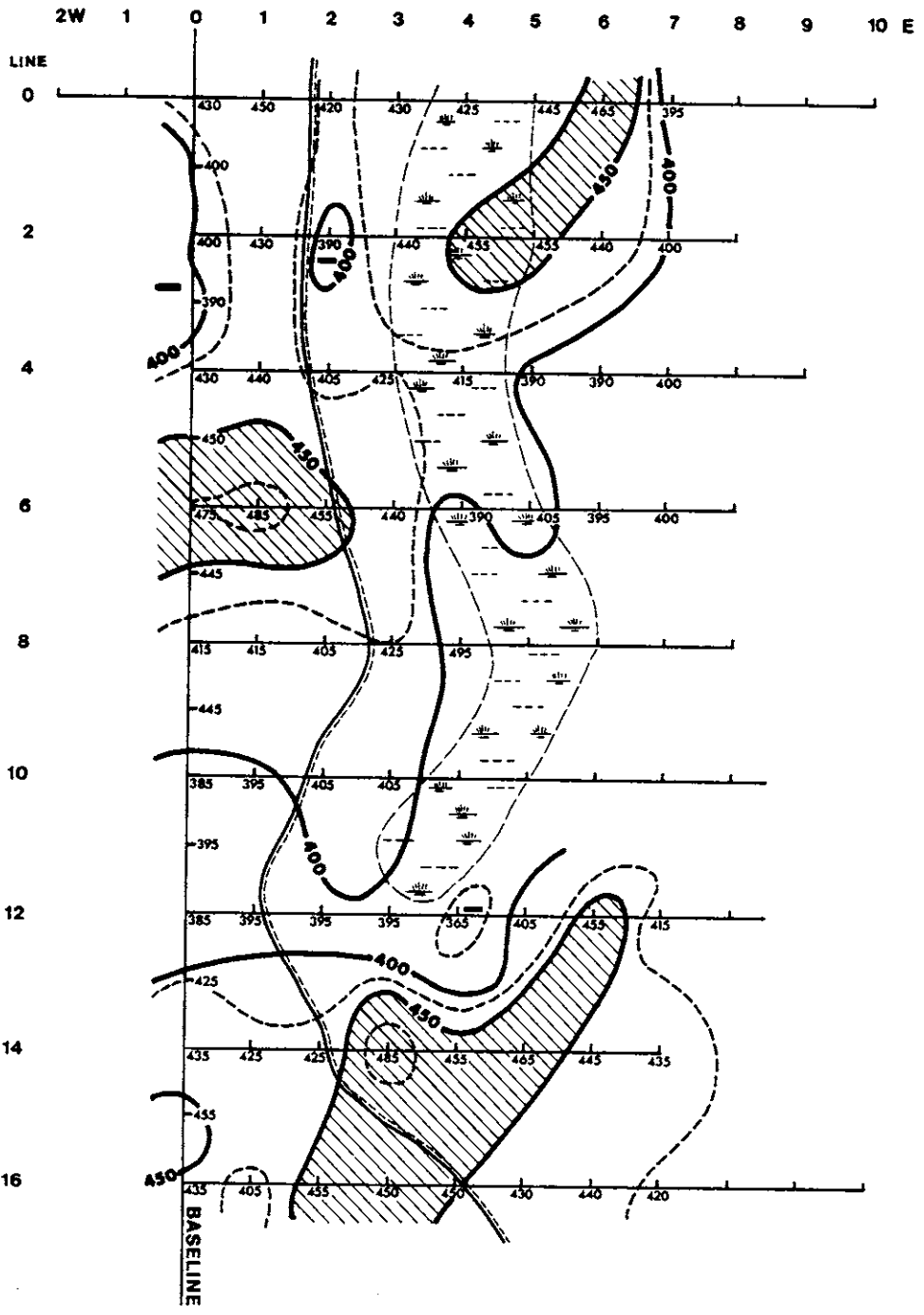
5.3 MAGNETIC SURVEY

5.3.1 FIELD PROCEDURE

About 8 miles of ground magnetic survey was carried out by D. Cukor, employing a Geometrics Unimag Proton Magnetometer, Model G-836, with a sensitivity of 10 gammas. Readings were taken on both grids at 100 ft. intervals. The check points for diurnal corrections were established by initially surveying both baselines, and after corrections were made, each station on the baseline was considered a base station for a corresponding crossline. Each crossline was tied to the base station at the start and/or the completion of each loop, with an average time lapse for the loop completion of 1.5 hrs for the main grid and about 20 minutes for the west grid.

5.3.2 DATA PRESENTATION

The instrument used measures a Total Magnetic Field. All results were first corrected and then reduced so 58,400 gammas reads 400 gammas. These relative values were then plotted on grid plans and contoured at 25 gamma intervals. Two plans are submitted in the report, Fig. 6 showing the main grid and Fig.7 representing the west grid.



NEWCOAST SILVER MINES LTD (N.P.L.)	
VAN MINERAL CLAIMS WEST GRID MAGNETIC SURVEY CONTOUR MAP	
LIARD M.D., B.C.	104-P-4,5
NVC ENGINEERING LTD.	VANCOUVER, B.C.
DATE: Jan. 1980	SCALE: 0 100 200'
	FIG. 7

5. FIELD SEASON 1979 EXPLORATION PROGRAM (Cont'd)

5.3 MAGNETIC SURVEY

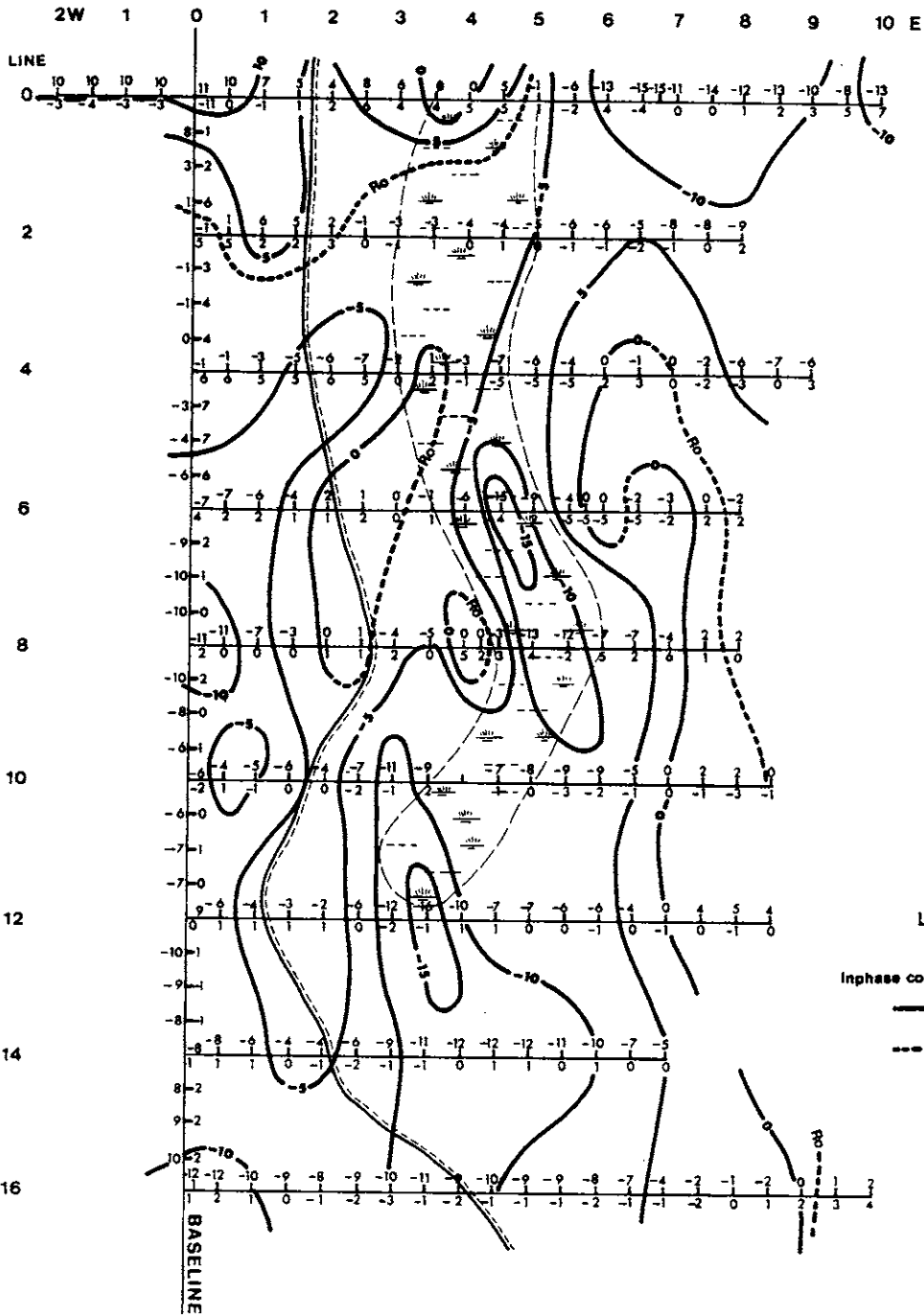
5.3.3 DISCUSSION OF RESULTS

Results of the survey showed a low magnetic relief of only 160 gammas, over all of the surveyed area. The readings range from 58350 to 58510 of the Total Field. However, it seems that of the two geological units, black shales are of slightly lower magnetic susceptibility and this survey could possibly be used in the future in connection with geological mapping in reconstructing the geological structures.

5.4 ELECTROMAGNETIC SURVEY

5.4.1 FIELD PROCEDURE

A total of about 5 miles of electromagnetic survey was performed by S. Presunka. Of this, approximately 2 miles was conducted over the west grid. The remainder was carried out along the reconnaissance lines. Instrument Ronka EM-16 Ser. No. 2 was used for this survey. Along the grid lines, readings were taken at 50 ft. intervals and during the reconnaissance survey 100 ft. spacing was used.



LEGEND

- Inphase contours - 5% interval
- 0 — Cross-over
- Ro --- Reverse cross-over

NEWCOAST SILVER MINES LTD (N.P.L.)

VAN MINERAL CLAIMS
 WEST GRID
 E.M. -16 SURVEY
 V.L.F. ST. 18.6 CONTOUR PLAN

LIARD M.D., B.C.

104-P-4,5

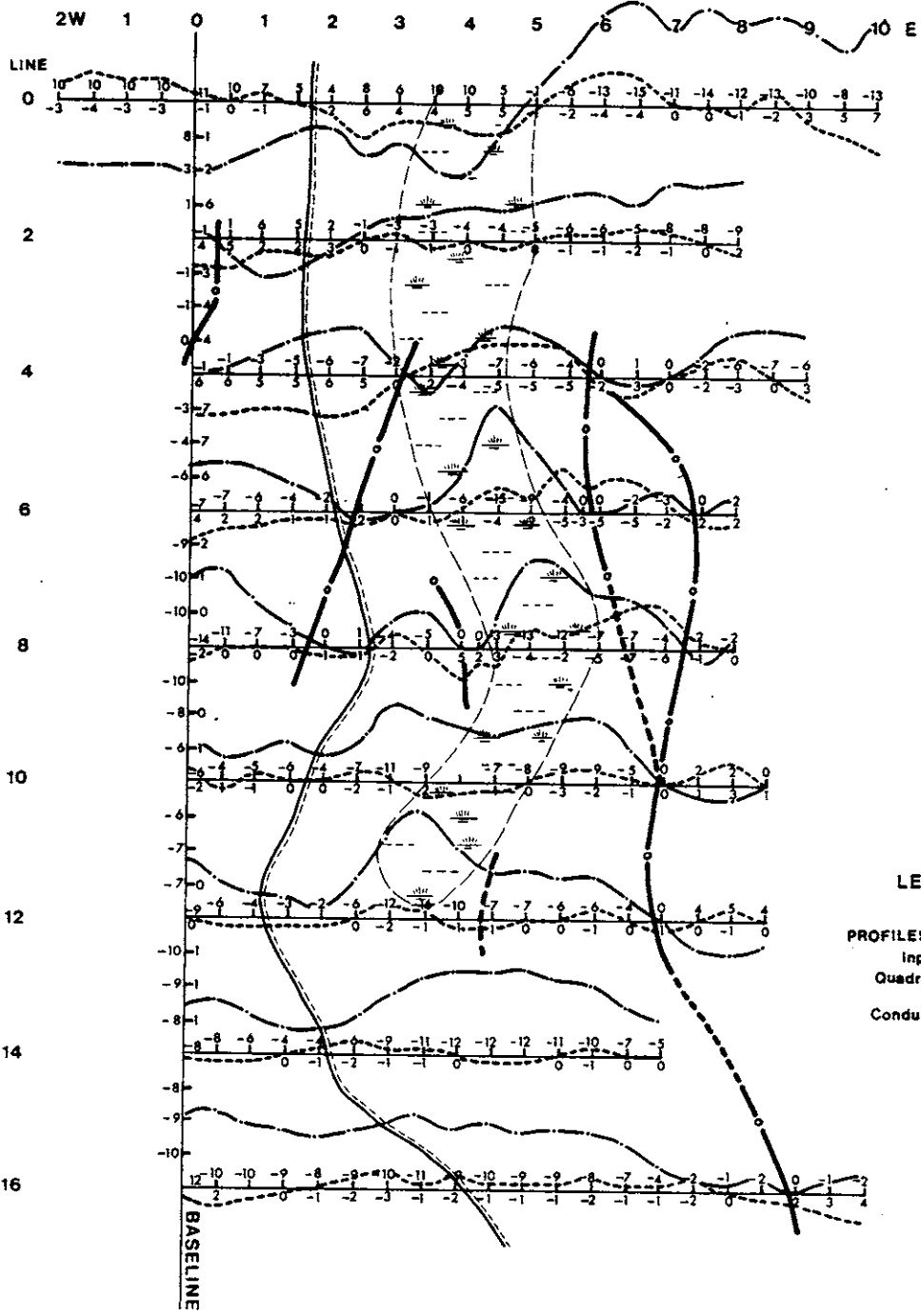
NVC ENGINEERING LTD.

VANCOUVER, B.C.

DATE: Jan. 1980

SCALE: 0 100 200'

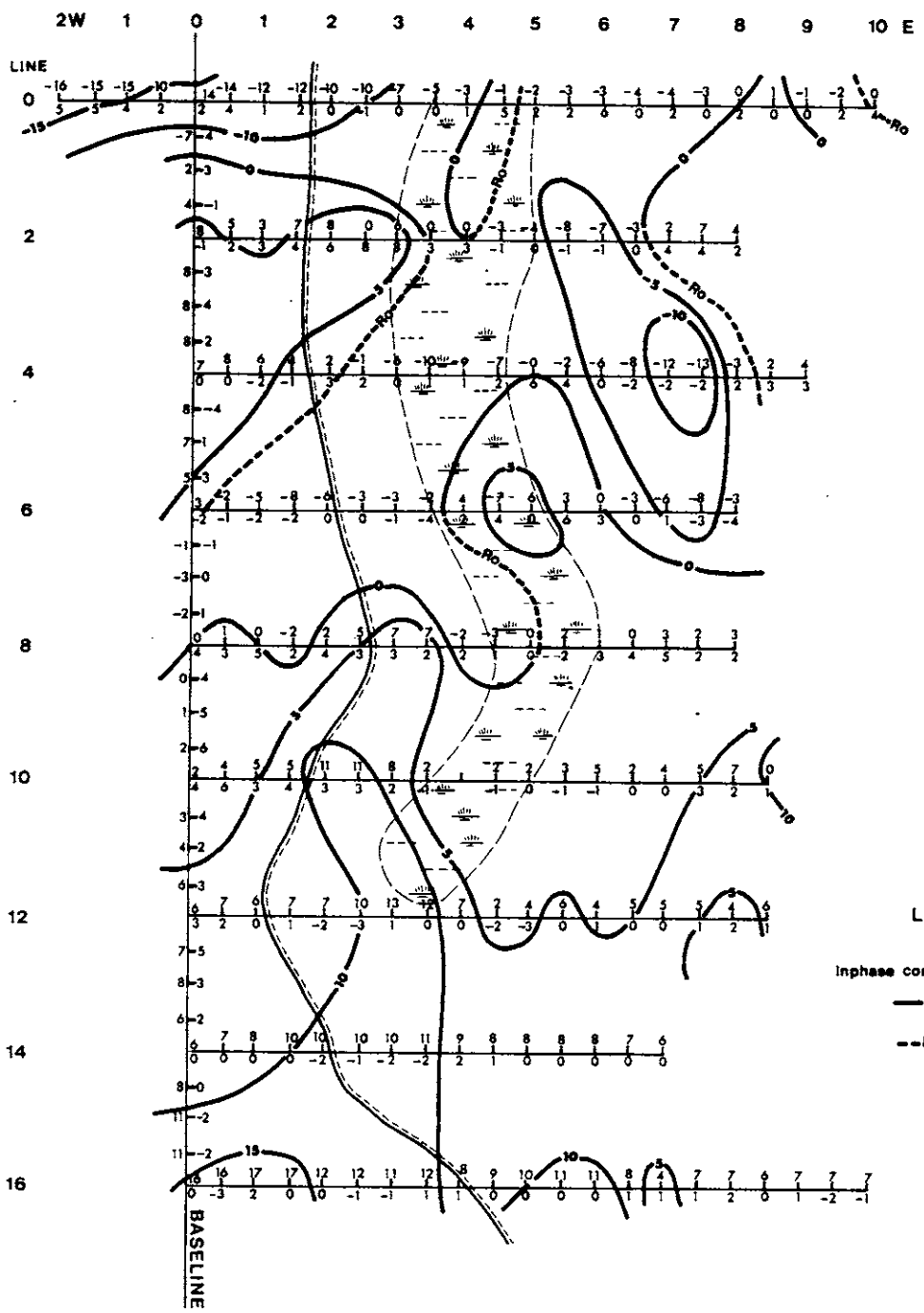
FIG. 8



LEGEND

PROFILES
 Inphase ——— } 1" = 10%
 Quadrature - - - -
 Conductors —●—●—

NEWCOAST SILVER MINES LTD (N.P.L.)	
VAN MINERAL CLAIMS WEST GRID E.M. -16 SURVEY V.L.F. ST. 18.6 PROFILED PLAN	
LIARD M.D., B.C.	104-P-4.5
NVC ENGINEERING LTD.	VANCOUVER, B.C.
DATE: Jan. 1980	SCALE: 0 100 200'
	FIG. 9



LEGEND

Inphase contours - 5% interval

—○— Cross-over

- -Ro- - Reverse cross-over

NEWCAST SILVER MINES LTD (N.P.L.)	
VAN MINERAL CLAIMS WEST GRID E.M.-16 SURVEY V.L.F. ST. 21.4 CONTOUR PLAN	
LIARD M.D., B.C.	104-P-4,5
NVC ENGINEERING LTD.	VANCOUVER, B.C.
DATE: Jan. 1980	SCALE: 0 100 200'
	FIG. 10

5. FIELD SEASON 1979 EXPLORATION PROGRAM (Cont'd)

5.4 ELECTROMAGNETIC SURVEY

5.4.1 FIELD PROCEDURE

Along the reconnaissance lines, survey stations were marked with numbered red ribbon and crossovers were marked with ribbon tied in the cross fashion.

The signals from two V.L.F. stations were used for surveys: VLF St. 18.6 Seattle and V.L.F. St. 21.4 Annapolis.

5.4.2 DATA PRESENTATION

Three 1" = 200 ft. plans of Electromagnetic surveys are submitted, showing results on the West grid only. Fig 8 is an Inphase contour plan for V.L.F. St. 18.6 and Fig.9 is a profiled plan for the same station. Readings on V.L.F. St. 21.4 were shown only on the Inphase contour plan (See Fig.10)

5.4.3 SURVEY RESULTS

Several moderately conductive zones were outlined in the West Grid area. The conductor extending from L-4 3E to L-8 2E is connected with moderately high silver geochem values and represents a fair drill target.

5. FIELD SEASON 1979 EXPLORATION PROGRAM (Cont'd)

5.4 ELECTROMAGNETIC SURVEY

5.4.3 SURVEY RESULTS

The other area of interest extends north south from L-4 6E to L-16 9# and then off the grid. Where this conductor crosses L-10, andesite float, intensely silicified and with abundant pyrite is found. This conductor is also believed to be a fair target.

Along the reconnaissance lines, several crossovers were located, one of them associated with very high gold geochemical soil values. This area warrants further extensive exploration, which should start by cutting a new grid and then continued by geochemical soil and geophysical electromagnetic surveys followed up by diamond drilling.

In 1976, EM-16 and EM-17 surveys were completed over the "main grid area" outlining numerous conductive zones of which at least seven were described as excellent to fair drill targets. The anomaly crossing the highway at L-4W 8S fell in the area where the rock cut on a newly reconstructed highway revealed intense silicification, quartz veining and heavily oxidized pyrite.

5. FIELD SEASON 1979 EXPLORATION PROGRAM (Cont'd)

5.4 ELECTROMAGNETIC SURVEY

5.4.3 SURVEY RESULTS

A rock sample assayed only trace gold but geochemical soil samples returned very high gold and copper values. This zone should now be considered as a primary drill target in the next step of exploration.

5.5 DIAMOND DRILL PROGRAM

A drill program comprising 722 ft of B.Q. drilling was carried out in the month of October by D.J. Drilling Ltd. Surrey, B.C. Three holes were completed in such a manner that every one of these holes explored different targets under mineral showings or geophysical anomaly. All core was logged and split by the author and diamond drill records and assay logs are appended to the end of this report.

The first two holes were drilled on the extensions of surface showings, the third hole explored EM-16 and EM-17 anomalies outlined in 1976. Hole #1-79 was drilled on #3 showing intersecting 1.5 ft quartz vein assaying low gold and silver. Hole #2-79 explored #1 showing. Four ft of pyritized quartz vein with tetra-

5. FIELD SEASON 1979 EXPLORATION PROGRAM (Cont'd)

5.5 DIAMOND DRILL PROGRAM

hedrite assayed .008 oz/t gold, 2.84 oz/t silver and .19% copper with an additional 6 ft. of wall rock assaying .03 oz/t gold. This hole, although not producing very exciting assays definitely intersected the vein outcropping on #1 showing, indicating so far strike length of over 200 ft. and down dip extension of over 160 ft. Since the surface showing assayed as high as .187 oz/t gold with 10.24 oz/t silver, this remains a first priority exploration target.

The third hole was drilled on co-inciding EM-16 and EM-17 anomalies, supported also by moderate copper-zinc-silver soil geochemical anomalies. A number of quartz pyrite zones were intersected carrying low but significant gold and silver values. However, the best intersection carried 1.455 oz/t gold and .28 oz/t silver over a length of 5.3 ft. with a one ft. section of 7.50 oz/t gold and .53 oz/t silver. The significance of this hole lies in the fact that it was drilled in an area where three EM-16 anomalies are converging, the longest one spreading out over a length of 1,600 ft.

5. FIELD SEASON 1979 EXPLORATION PROGRAM (Cont'd)

5.5 DIAMOND DRILL PROGRAM

However, on the basis of one hole, no correlations with EM-16 anomalies, nor any conclusions about dip and strike of the vein can be drawn. This outstanding target must be followed up during the next drilling program.

Respectfully submitted,



January 1980

V. CUKOR, P. ENG.

CERTIFICATE

I, VLADIMIR CUKOR, of 2841 West 18th Avenue, Vancouver, B.C.
do certify that:

1. I am a Consulting Geological Engineer with business address as above
2. I graduated from the University of Zagreb, Yugoslavia in 1963 as a graduated Geological Engineer
3. I am a Registered Professional Engineer in the Geological Section of the Association of Professional Engineers in the Province of British Columbia
4. I have practised my profession as a Geological Engineer for the past 17 years both in Yugoslavia and Canada
5. I have no interest, direct or indirect in any of the properties or securities of NEWCOAST SILVER MINES LTD. nor do I expect to receive or acquire any.
6. I hereby consent to the use of this report in or in connection with the filing of Assessment Work and in connection with the Province of British Columbia Exploration Grant.



January 1980

VLADIMIR CUKOR, P. ENG.

APPENDIX "A"

APPENDIX "A"

COSTS AND PERSONNEL FOR 1979 EXPLORATION PROGRAM

I. Personnel Involved

NVC Engineering Ltd.	Engineering, geological mapping, line cutting, soil sampling, magnetometer survey and overall field supervision reports
Presunka Geophysical Exploration Ltd.	EM-16 Survey
D.J. Drilling Ltd.	Diamond drilling

* Field supervision was under Vladimir CUKOR, P. Eng.

2. Costs

(a) Field Programs

General Surveys - August 1979

- NVC Engineering Ltd. - Invoice Sept.15/79	12,228.46
Less costs of staking TIN Claims	530.00
	<u>11,698.46</u>

- NVC Engineering Ltd. - Invoice Sept.26/79 assays, EM-16 SURVEY, Interpretation	3,326.12
---	----------

(b) Drill Program - October 1979

D.J. Drilling Ltd. - Invoice Oct.22/79	19,436.98
NVC Engineering Ltd. - Invoice Nov.9/79	7,522.50

(c) <u>Data compilation and final report</u>	<u>2,400.00</u>
--	-----------------

\$44,384.06

V. Cukor



engineering ltd.

2841 West 18th Ave. Vancouver, B.C. V6L 1B7
Tel. (604) 731-5062

September 15, 1979
Invoice #

NEWCOAST SILVER MINES LTD.
Ste. 720 - 505 Burrard Street
Vancouver, B.C.

Re: VAN CLAIMS, CASSIAR, B.C.
WORK PROGRAM 1979 SEASON

Geological mapping, line cutting, soil sampling, magnetometer survey, all as per report

Engineering:

V. Cukor 24 days @ \$200.00 per day 4,800.00 ✓

Wages:

Helper: D. Cukor 22 days @ \$ 40.00 per day 880.00 ✓
Prospector 22 days Wages & Car Rental 1,700.00 ✓

Mobilization and demobilization to and from property 1,500.00

Camp Rental and camp costs (includes meals, etc.)
24 days for 3 men @ \$ 20.00 per man/day 1,440.00 ✓

Truck Rental 24 days @ \$ 35.00 per day 840.00 ✓
Magnetometer Rental 1 month 262.50 ✓

Shipping Samples 10.00 ✓
Rock Sample Assays 75.25 ✓
Gasoline used on project 145.71 ✓
1 Box belt chain thread 27.00 ✓
Mosquito repellent 18.00 ✓

Staking Tin 1 - 4 Claims
Labour 180.00
Camp Costs, truck rental 170.00
Share of Travel Expense 125.00
Flagging, etc. 35.00
Recording 20.00

530.00 ✓
\$ 12,228.46



engineering ltd.

2641 West 18th Ave. Vancouver B.C. V6L 1S7
Tel. (604) 731-5662

September 26, 1979
Invoice #

Newcoast Silver Mines Ltd.
Ste. 720 - 505 Burrard
Vancouver, B.C.

Re: Cassiar, B.C. Property - VAN CLAIMS

Assay charges for geochem	377.20 [^]	
Assay charges for geochem	1,798.92 [^]	
E.M. - 16 Survey - S. Presunka	750.00 [^]	
Geochem interpretation by V. Cukor 2 days 200.00 per day	400.00 [^]	
	<u>400.00</u>	<u>\$3,326.12</u>

V. Cukor

D.J. DRILLING COMPANY LTD.

13135 - 20th Avenue
SURREY, B.C. V4A 1Z1
Phone 531-4134

KNO 1/79
Cheque # 320

October 22nd, 1979.

New Coast Silver Mines,
720 - 505 Burrard Street,
Vancouver, B.C.

Dear Sir:

Re: BQ Diamond Drilling,
Cassiar, B.C.

Following is a summary of the enclosed invoices covering the period September 30 - October 12, 1979.

Hole #1	2440.00 ✓	
Hole #2	2952.00 ✓	
Hole #3	6280.00 ✓	
30 Core Boxes	165.00 ✓	
Fuel	149.98 ✓	
Demobilization, Freight, Truck & Travel Expense	2490.00 ✓	
Labour, Mobilization, Moves & Demobilization	<u>4960.00</u> ✓	
		<u>\$19,436.98</u> ✓

Yours truly,

E.M. Schussler

(Mrs) E.M. Schussler,
Secretary,

encls.

V. C.



engineering ltd.

2841 West 18th Ave., Vancouver, B.C. V6L 1B7
Tel. (604) 731-5062

November 9, 1979
Invoice #217

Newcoast Silver Mines Ltd.
Ste. 720 - 505 Burrard
Vancouver, B.C.

Re: VAN CLAIMS - Cassiar, B.C.
Drill Program September 29 - October 13, 1979

Field:

V. Cukor, Engineering	9 days	200.00	1,800.00 w
Assistant field helper			900.00 w
Travel Expense			1,600.00 w
Camp expenses	18 m/days	25.00	450.00 w
4 x 4 rental	9 days	35.00	315.00 w
Gasoline for field			72.00 w
Bucannerr Drilling (Bulldozer Rental)			594.00 w
Assays			391.50 w
Data correlation, drill and assay log preparation report for Stock Exchange, meetings, etc.			
V. Cukor	4.5 days	200.00	900.00 w
Report compilation to date			500.00 w
			<u>\$7,522.50</u>

V-G



engineering ltd.

2841 West 18th Ave., Vancouver, B.C. V6L 1B7
Tel. (604) 731-5062

January 4, 1980

Newcoast Silver Mines Ltd.
Ste. 720 - 505 Burrard St.
Vancouver, B.C.

Re: VAN CLAIMS, CASSIAR, B.C.
Data Compilation and final report on
1979 field exploration program

V. Cukor - Engineering	7 days	@ 200.00	1,400.00
Drafting	68 hrs.	@ 10.00	680.00
Materials (Letraset, mylor)			20.00
Typing			150.00
Printing, binding			150.00
			<hr/>
			\$2,400.00
			<hr/> <hr/>

V. Cukor

APPENDIX "B"

GEOCHEMICAL SOIL SAMPLING

#1 GRID

REPEAT GOLD SURVEY

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:
NEWCOAST SILVER MINES
 2841 West 18th Avenue
 Vancouver, B.C.
 V6L 1B7

CERTIFICATE OF ASSAY

No.: 7908-1554 DATE: Sept. 13/79

We hereby certify that the following are the results of assays on: **Soil samples**

MARKED	GOLD	REJECTS	XXXX	XXX	XXX	SAMPLE MARKED:	GOLD
	Au (ppm)						Au (ppm)
<u>LINE 0 -</u>						<u>LINE 6 -</u>	
2 + 00	0.03					1 + OON	0.04
3 + OON	0.02					2 + OON	0.03
4 + OON	0.05					3 + OON	0.01
5 + OON	0.02					4 + OON	0.02
6 + OON	0.02					5 + OON	0.02
7 + OON	0.01					7 + OON	0.03
8 + OON	0.03					8 + OON	0.03
9 + OON	0.03					9 + OON	0.02
						10 + OON	0.02
<u>LINE 2 -</u>						<u>LINE 8 -</u>	
1 + OON	0.02					1 + OON	0.03
2 + OON	0.03					2 + OON	0.13
3 + OON	0.02					3 + OON	0.02
4 + OON	0.02					5 + OON	0.02
5 + OON	0.01					6 + OON	0.02
6 + OON	0.01					8 + OON	0.03
7 + OON	0.02					9 + OON	0.02
8 + OON	0.01						
9 + OON	<0.01					<u>LINE 10 -</u>	
10 + OON	0.02					1 + OON	0.02
<u>LINE 4 -</u>						2 + OON	0.06
1 + OON	0.01					3 + OON	< 0.01
2 + OON	0.03					4 + OON	0.03
3 + OON	0.03					5 + OON	0.03
4 + OON	0.03					6 + OON	0.02
5 + OON	0.03					7 + OON	0.02
6 + OON	0.13					8 + OON	0.04
7 + OON	0.10					9 + OON	0.03
8 + OON	0.05					10 + OON	0.02
9 + OON	0.03						
10 + OON	0.02						

/ Continued on page 2

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

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R. NADEAU, Chemist

~~CONFIDENTIAL~~

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: National Institute Of Oilseed Products • The American Oil Chemists Society
 OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade



GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2
 PHONE (604) 254-1847 TELEX 04-507514 CABLE SUPERVISE

TO:
NEWCOAST SILVER MINES

(Continued) .. page 2

CERTIFICATE OF ASSAY

No.: 7908-1554 DATE: Sept. 13/79

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

MARKED	GOLD	SILVER	XXX	XXX				
	Au(ppm)							
<u>LINE 12 -</u>								
1 + OON	0.03							
2 + OON	0.03							
3 + OON	0.03							
4 + OON	0.03							
5 + OON	0.02							
6 + OON	0.04							
7 + OON	0.02							
8 + OON	0.03							
9 + OON	0.01							
10 + OON	0.03							
<u>LINE 14 -</u>								
1 + OON	0.04							
2 + OON	0.03							
3 + OON	0.02							
4 + OON	0.02							
5 + OON	0.03							
6 + OON	0.03							
7 + OON	0.03							
8 + OON	0.02							
<u>LINE 20 -</u>								
6 + OON	0.06							
<u>BL -</u>								
0 + 00	0.05							
1 + 00	0.06							
2 + 00	0.04							
4 + 00	0.03							
6 + 00	0.02							
8 + 00	0.05							
10 + 00	0.04							
12 + 00	0.02							
14 + 00	0.05							

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[Signature]
R. NADEAU, Chemist

XXXXXXXXXXXXXXXXXXXX

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 REFEREE AND OR OFFICIAL CHEMISTS FOR: National Institute Of Oilseed Products • The American Oil Chemists' Society
 OFFICIAL WEIGHMASTERS FOR Vancouver Board Of Trade

APPENDIX "B"

GEOCHEMICAL SOIL SAMPLING

#1 GRID EXTENSIONS

WEST GRID AND RECONNAISSANCE LINES



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:
NEWCOAST SILVER MINES
 2841 West 18th Avenue
 Vancouver, B.C.
 V6L 1B7

CERTIFICATE OF ASSAY

No.: **P 08-1555** DATE: **Sept. 24/79**

We hereby certify that the following are the results of assays on: **soil samples**

MARKED	GOLD	SILVER	Copper	xxx	SAMPLE MARKED:	GOLD	SILVER	COPPER
	Au (ppm)	Ag (ppm)				Au (ppm)	Ag (ppm)	
<u>LINE 0</u>			Cu (ppm)		<u>LINE 10</u>			
10+00-N	0.05	1.0	46		11+00-N	0.09	0.8	22
11+00	0.03	1.1	31		13+00	0.04	1.5	30
12+00	0.03	0.8	25		14+00	0.01	1.0	19
13+00	0.03	1.1	26		15+00	0.03	0.8	20
14+00	0.10	1.1	54		16+00	0.01	0.8	18
15+00	0.04	1.1	30		17+00-N	0.03	0.8	31
16+00	0.01	1.0	24		<u>LINE 12</u>			
17+00	0.01	0.8	32		11+00-N	0.52	0.4	18
18+00-N	0.01	1.0	45		12+00	0.02	1.0	24
<u>LINE 2</u>					13+00	0.01	1.1	22
11+00-N	0.30	0.8	55		14+00	0.01	1.0	26
12+00	0.04	1.0	23		15+00	0.05	0.8	13
13+00	0.04	1.5	29		16+00	0.01	1.4	46
14+00	0.04	2.1	32		17+00	0.05	1.0	21
15+00	0.03	3.4	63		18+00	0.01	0.8	23
16+00-N	0.04	1.2	60		19+00	0.01	2.1	41
<u>LINE 4</u>					20+00-N	0.05	0.8	26
A10+00-N	0.03	1.4	24		<u>LINE 14</u>			
11+00	0.01	0.8	43		13+00-N	0.01	2.4	34
12+00	0.03	0.4	20		14+00	0.05	1.2	99
13+00	0.02	1.3	60		15+00	0.01	1.1	56
14+00	0.03	2.9	92		16+00	0.01	1.1	57
15+00	0.02	1.5	56		17+00	0.01	1.0	22
16+00-N	0.01	5.1	50		18+00	0.01	0.8	23
<u>LINE 6</u>					19+00	0.03	0.8	31
11+00-N	0.01	1.0	37		20+00	0.03	0.8	35
12+00	> 1.5	1.0	40		21+00	0.01	1.2	24
13+00	0.01	0.8	17		22+00	0.01	2.6	35
14+00	0.01	1.3	29		23+00	0.03	0.6	34
15+00	0.01	0.8	35		24+00	0.03	0.6	23
16+00-N	0.05	1.6	53		25+00	0.04	0.8	34
					26+00	0.10	1.0	39
					27+00-N	0.04	0.6	45

/Continued on page 2

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R. Wadeau
R. WADEAU, Chemist

PROVINCIAL ASSAYER

COPY

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



TO:
NEWCOAST SILVER MINES

(Continued) page 2

CERTIFICATE OF ASSAY

No.: **7908-1555** DATE: **Sept. 24/79**

We hereby certify that the following are the results of assays on: **Soil samples**

MARKED	GOLD		SILVER		Copper	XXX	SAMPLE MARKED:	GOLD		SILVER		COPPER	
	Au (ppm)	Ag (ppm)	Ag (ppm)	Cu (ppm)				Au (ppm)	Ag (ppm)	Cu (ppm)	Ag (ppm)	Cu (ppm)	
LINE 16							LINE 18						
1+OOS	0.03	0.5		21			22+OON	0.07	1.0		24		
2+OON	0.03	1.0		26			23+OON	0.04	0.9		23		
2+OOS	0.02	1.0		25			24+OON	0.07	1.6		33		
3+OON	0.03	0.5		12.			25+OON	0.07	1.0		33		
3+OOS	0.03	0.6		13			26+OO	0.04	1.1		40		
4+OON	0.03	1.0		20			27+OON	0.04	0.7		32		
4+OOS	0.10	0.6		16			28+8ON	0.04	0.5		17		
5+OON	0.05	0.5		13			LINE 20						
5+OOS	0.04	0.9		36			1+OO	0.05	0.9		27		
6+OON	0.02	0.6		12			2+OON	0.04	0.8		19		
6+OOS	0.05	0.7		23			3+OO	0.01	1.0		24		
7+OON	0.06	0.7		13			4+OON	0.01	0.50		17		
LINE 18							5+OON	0.05	0.8		20		
1+OON	0.03	0.7		37			7+OON	0.04	0.9		19		
1+OOS	0.02	0.6		12			8+OON	0.02	1.4		23		
2+OON	0.02	0.6		23			9+OON	0.02	1.9		35		
2+OOS	0.05	0.6		15			10+OON	0.02	1.4		17		
3+OON	0.14	0.7		18			11+OON	0.02	0.9		26		
3+OOS	0.03	0.8		20			12+OON	0.06	1.7		24		
4+OON	0.02	0.7		19			13+OO	0.04	0.9		15		
4+OOS	0.03	0.6		17			14+OO	0.02	0.8		19		
5+OON	0.04	0.6		20			15+OON	0.02	1.7		42		
5+OOS	0.04	1.9		41			16+OON	0.02	0.7		18		
6+OON	0.04	0.7		17			17+OON	0.05	0.6		27		
7+OON	0.02	0.8		15			21+OON	0.02	1.4		26		
8+OON	0.03	2.1		58			22+OON	0.03	2.1		38		
9+OON	0.03	2.1		57			23+OON	0.02	1.5		27		
10+OON	0.05	1.2		41			24+OON	0.04	1.5		19		
14+OO	0.08	0.8		30			25+OON	0.02	0.6		14		
15+OO	0.05	0.9		37			26+OON	0.02	0.6		22		
16+OON	0.08	1.5		38			27+OON	0.02	0.9		20		
17+OON	0.14	0.7		15			28+OON	0.02	1.1		43		
19+OON	0.01	1.1		23			29+OON	0.02	0.7		35		
20+OO	0.06	1.4		44									
21+OON	0.04	1.0		28									

/Continued on page 3

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[Signature]
R. HADEAU, Chemist

PROVINCIAL ASSAYER

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TO: **NEWCOAST SILVER MINES**

(Continued) page 3

CERTIFICATE OF ASSAY

No.: 7908-1555 DATE: Sept. 24/79

We hereby certify that the following are the results of assays on: **soil samples**

MARKED	GOLD		SILVER	COPPER	XXXX	SAMPLE MARKED	GOLD		SILVER	COPPER
	Au (ppm)	Ag (ppm)	Ag (ppm)				Au (ppm)	Ag (ppm)	Cu (ppm)	
<u>B.L.</u>						<u>LINE 4</u>				
4+160	0.02	1.1	27			1+00	0.01	0.9	21	
16+00	0.02	0.9	17			2+00	0.01	0.8	17	
18+00	0.02	0.9	21			5+00	0.01	2.3	48	
20+00	0.02	0.9	19			6+00	0.01	3.2	42	
28+00	0.02	0.4	9			7+00	0.68	0.9	15	
30+00	0.02	0.8	16			<u>LINE 6</u>				
32+00	0.05	0.8	33			1+00	0.04	1.0	20	
34+00	0.02	1.0	35			2+00	0.04	0.6	9	
36+00	0.03	1.3	23			3+00	0.07	0.9	15	
38+00	0.05	1.0	24			5+15	0.01	2.6	73	
40+00	0.02	0.7	19			6+00	0.01	0.6	9	
42+00	0.02	1.4	26			7+00	0.01	0.7	8	
44+00	0.06	1.5	19			<u>LINE 8</u>				
46+00	1.5	1.0	14			1+00	0.01	1.0	19	
48+00	0.05	1.1	17			2+00	0.02	1.0	18	
50+00	0.44	1.4	19			3+00	0.01	0.9	12	
52+00	> 1.5	0.8	13			4+00	0.01	1.3	13	
54+00	0.13	0.6	13			6+00	0.02	0.6	19	
56+00	0.04	0.7	38			7+00	0.02	0.5	11	
58+00	0.02	1.0	17			<u>LINE 10</u>				
60+00	1.2	2.3	63			1+00	0.02	0.9	15	
<u>LINE 0</u>						2+00	0.02	1.0	18	
1+00	0.04	0.8	23			3+00	0.02	1.0	16	
2+00	0.04	0.6	29			5+00	0.01	0.7	10	
3+00	0.03	0.8	15			6+00	0.02	0.7	21	
6+00	0.03	3.8	26			7+00	0.02	0.7	23	
7+00	0.01	1.5	29			<u>LINE 12</u>				
<u>LINE 2</u>						1+00	0.01	0.9	18	
1+00	0.02	1.3	26			2+00	0.02	0.7	16	
2+00	0.02	0.5	25			3+00	0.47	0.9	16	
6+00	0.01	0.6	27							
7+00	0.01	2.0	27							

/ Continued on page 4

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

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R. Nadeau
R. NADEAU, Chemist

PROVINCIAL ASSAYER

COPY

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 National Institute Of Oilseed Products • The American Oil Chemists' Society
 OFFICIAL WEIGHMASTERS FOR Vancouver Board Of Trade



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:
NEWCOAST SILVER MINES

(Continued) ;... page 4

CERTIFICATE OF ASSAY

No.: 7908-1555 DATE: Sept.

We hereby certify that the following are the results of assays on: **soil samples**

MARKED	GOLD		SILVER	COPPER	XXXX	SAMPLE MARKED	GOLD		SILVER	COPPER
	Au (ppm)	Ag (ppm)					Au (ppm)	Ag (ppm)		
<u>LINE 12</u>						<u>S 5</u>				
4+00	0.04	0.6	10			11	0.25	1.8	24	
5+00	0.04	0.5	9			12	0.02	1.6	18	
6+00	0.01	0.5	7			13	0.13	1.0	13	
7+00	0.02	0.7	12			14	0.25	0.6	15	
						15	0.17	0.7	15	
<u>LINE 14</u>						16	0.01	0.7	27	
1+00E	0.02	1.1	19			17	0.05	0.7	16	
2+00E	0.01	0.9	21			18	0.01	1.1	19	
3+00E	0.04	0.4	11			19	0.01	0.9	16	
4+00E	0.02	0.9	15			20	0.07	0.8	28	
5+00E	0.02	1.4	27			21	0.02	1.0	35	
6+00E	0.02	0.8	17			22	0.05	0.6	22	
7+00E	0.04	0.6	20			24	0.01	1.1	25	
						25	0.02	0.6	20	
<u>LINE 16</u>						26	0.01	0.7	16	
0+00	0.02	1.5	42			27	0.20	0.7	11	
1+00	0.02	1.0	31			28	> 1.5	1.9	73	
2+00	0.01	1.03	42			29	0.11	0.8	58	
3+00	0.02	0.6	24			30	0.13	1.0	32	
4+00	0.02	1.0	21			31	0.11	3.6	106	
5+00	0.02	0.6	16			32	0.07	1.3	68	
6+00	0.01	0.6	14			33	0.05	0.9	43	
7+00	0.01	0.7	14			34	0.13	1.0	98	
						35	0.05	1.0	60	
<u>S 5</u>						36	> 1.5	3.2	245	
1	0.02	0.7	16			37	0.13	0.8	92	
2	0.02	0.8	14			38	0.03	0.9	29	
3	0.02	0.8	15			39	0.08	0.8	34	
4	0.01	0.6	13			40	0.05	0.7	46	
5	0.01	0.7	15			41	0.05	2.9	53	
6	0.01	1.4	28			42	0.02	0.7	48	
7	> 1.5	0.8	54			43	0.01	0.9	48	
8	0.63	1.4	53			44	0.25	1.0	36	
9	0.02	0.6	13			45	> 1.5	1.1	29	
10	0.03	0.9	34			46	0.05	0.7	16	

/ Continued on page 5

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R. Nadeau
R. NADEAU, Chemist

PROVINCIAL ASSAYER

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TO:
NEWCOAST SILVER MINES

 (Continued) ... page 5 ...

CERTIFICATE OF ASSAY

No.: **7908-1555** DATE: **Sept. 24/79**

We hereby certify that the following are the results of assays on: **soil samples**

MARKED	GOLD	SILVER	COPPER	XXX	XXX	XXX	XXX	XXXX
	Au (ppm)	Ag (ppm)	Cu (ppm)					
<u>85</u>								
47	0.11	1.1	39					
48	0.01	1.1	20					
48A	0.47	1.2	88					
49	0.05	0.9	28					
50	0.35	1.3	94					
51	0.08	1.1	72					
52	0.05	0.9	20					
53	0.02	0.7	15					
54	0.01	0.9	16					
55	0.08	0.7	19					
57	0.01	0.9	30					
58	0.05	0.6	14					
59	0.02	0.9	17					
60	0.02	0.9	47					
61	0.10	1.1	25					
62	0.01	1.1	12					
63	0.02	1.3	21					
64	0.02	0.7	52					
65	0.02	0.9	64					
<u>B.L.</u>								
0+00	0.02	0.7	16					
1+00	0.18	0.9	20					
2+00	0.05	0.6	17					
3+00	0.02	0.4	15					
4+00	0.02	0.7	16					
5+00	0.01	0.7	19					
6+00	0.01	0.7	27					
7+00	0.01	1.2	23					
8+00	0.02	1.2	55					
9+00	0.01	0.7	15					
10+00	0.01	0.9	34					
11+00	0.02	0.7	19					
12+00	0.01	0.7	17					
13+00	0.16	0.7	12					
14+00	0.05	1.2	21					
15+00	0.03	1.1	14					

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R. Nadeau
R. NADEAU, Chemist

PROVINCIAL ASSAYER

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DIAMOND DRILL RECORD

COMPANY NEWCOAST SILVER MINES LTD.

PROPERTY VAN CLAIMS - CASSIAR, B.C.

NVC engineering ltd.
VANCOUVER, B.C.

Hole No. 1 - 79
Date Begun October 5, 1979
Date Finished October 6, 1979
Drill Longyear 38
Core Size _____

Lat. _____ Total Depth 150'
Dep. _____ Logged by: V. Cukor
Bearing 340° Date Oct. 6, 1979
Elev. Collar _____ Claim VAN
Dip -60° _____ BQ

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
0 - 20.0	20.0	-	No Core, Casing	
20.0 - 32.0	12.0	100	Dark argillite, laminated at 30° to core axis. Throughout the zone white calcitic, stylolitic lines appear. Porosity is developed along some of the laminations. Fine pyrite (often oxidized) and graphite is found along the lamination planes. Some silicification is also noted, mostly as fracture filling. Locally, the rock is somewhat brecciated. Toward the end of the interval, pyritization and calcitization are increased as well as brecciation. Laminations become very irregular toward the end.	101 QQ
32.0 - 64.5	32.5	100	Tuffaceous volcanic, grey, silicified, locally porous and locally intensely altered with epidote. Fine pyrite zones alternate with very coarse pyrite cube zones. At the start of the interval some of the fractures are filled with graphite. More silicious sections are from 35 - 36 ft, 39 - 39.5 ft, 48 - 50 ft (rock is impregnated with quartz, pyrite and mariposite ± tetrahedrite. At 52.5 ft. there is a 6" quartz vein with pyrite. From 55 ft. grey tuffaceous rock alternates with green andesite. Silicification and pyritization increases toward the end of the interval and the last 3 ft of the interval is intensely pyritized.	102 QQ 103 QQ 104 QQ 105 QQ 106 QQ 107 QQ 108 QQ

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
64.5 - 66.0	1.5	100	Quartz vein with some coarse isolated pyrite and some tetrahedrite.	109 QQ
66.0 - 150.0	84.0	100	Green andesite alternating with grey tuffs. The first 3 ft. of the interval are intensely pyritized and silicified. At 96 ft. there is a 1 ft section of broken rock. At 104 ft hairline fractures appear filled with calcite and dark chlorite. Toward the end of the interval the rock is epidotized and chloritized andesite with occasional quartz veins of up to 1" wide. Some coarse, isolated pyrite crystals appear occasionally.	110 QQ
150.0			End of Hole (core recovery was excellent throughout the hole)	

V. C.

APPENDIX "C"

DRILL RECORDS AND ASSAY LOGS

DIAMOND DRILL RECORD

COMPANY NEWCOAST SILVER MINES LTD.

PROPERTY VAN CLAIMS - CASSIAR, B.C.

Hole No. 2 - 79

Lat. _____

Total Depth 182 ft.

Date Begun October 6, 1979

Dep. _____

Logged by V. Cukor

Date Finished October 7, 1979

Bearing 15°

Date October 7, 1979

Drill Longyear 38

Elev. Collar _____

Claim VAN

Core Size BQ

Dip -50°

NVC engineering ltd.
VANCOUVER, B.C.

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
0 - 20.0	20		Casing, no core	
20.0 - 61.0	38	93	Volcanic rock, grey to greenish, massive, with dark chlorite veinlets and occasional epidote. Rock is fairly fractured. At 39 ft. there is a 3" quartz vein enveloped in 1 ft. of intensely pyritized rock on each side. There are more fractured sections from 32 - 34 ft, 38 - 39 ft, 45 - 46 ft and 54 ft (6" zone) At 54.5 ft there is a 2" quartz vein with some pyrite in the surrounding rock. Toward the end of the interval the rock is gradually changing into dark green andesite.	111 QQ
61.0 - 87.5	25	94	Dark green andesite, locally brecciated with silica cement and quartz veinlets. From 62.5 - 64 ft. the rock is gougy (fault ?) and also at 68 - 69.5 ft and 78 - 80 ft. Some quartz fragments are present in the gouge in the last zone.	
87.5 - 110.0	22	98	Grey volcanic rock with chlorite, calcite and/or quartz in hairline fractures. At 94 ft. there is 4" of breccia. At 105 ft there is a 4" wide quartz vein. At 109 ft a quartz vein 6" wide with large pyrite crystals. The vein is at 50° to the core axis The last 3 ft of the interval carry large percentage of very coarse grained pyrite.	112 QQ

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
110.0 - 114.0	4	100	Quartz vein, fractured and somewhat brecciated with pyrite and some tetrahedrite. Lower contact of the vein is at 70° to the core axis, upper one is irregular	113 QQ
114.0 - 140.0	26	100	Grey volcanic rock, massive, First 3 ft of interval is intensely pyritized with large pyrite cubes. At 117 ft there is a 6" quartz vein at 60° to core axis. At 119 - 121 ft. rock is brecciated, silicious and chloritized. At 124 ft. there is a 1" quartz vein at 30° to core axis. There is also one at 126 ft. At 131 ft, 3" quartz vein with irregular contacts and at 133 ft. 3" wide silicified zone.	114 QQ
140.0 - 182.0	42	100	Dark green andesite, alternating with smaller zones of grey volcanic. In places the rock is chloritized, sometimes silicified and fractured. Some small sections are pyritized. A number of quartz veinlets are spread throughout, several of them up to 1" wide.	
182.0			End of hole (Core recovery was excellent throughout with average recovery 97%)	

U C

DIAMOND DRILL RECORD

COMPANY NEWCOAST SILVER MINES LTD

PROPERTY VAN CLAIMS, CASSIAR, B.C.

NVC engineering ltd.
VANCOUVER, B.C.

Hole No. 3 - 79 Lat. _____ Total Depth 390 ft.
 Date Begun October 8, 1979 Dep. _____ Logged by: V. Cukor
 Date Finished October 9, 1979 Bearing 130° Date October 9, 1979
 Drill Longyear 38 Elev. Collar _____ Claim VAN
 Core Size B.Q. Dip -50°

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
0 - 20.0	-	-	No core, casing	
20.0 - 53.0	30	91	Black shale, argillaceous, laminated at 30° to core axis, with some sections showing various angles. Some fine pyrite and occasionally graphite follows laminations. Quartz veinlets are parallel to laminations in places and sometimes fill the narrow fractures crossing them. At 30 ft, 6" quartz vein, intensely fractured and broken up crosses the laminations at approximately right angles. Toward the end of the interval, the rock is more brecciated and core is broken in small fragments. Some quartz appears in the zone as well. Throughout the interval, most of the core is recovered in pieces up to 10" long and recovery is very good.	
53.0 - 207.7	145	93	Dark green andesite, massive, brecciated at the start of the interval. From 62 ft - 67 ft and 70 ft - 76 ft. the rock is intensely brecciated, bleached and in places mylonitized (fault zones ?) and from 79 ft - 81 ft slightly pyritized and silicified. At 87 ft - 88 ft. another zone of pyritization and silicification, at 88 ft there is 3" section intensely altered with epidote. Generally epidote and black chlorite are found as fracture fillings.	115 QQ 116 QQ 117 QQ 118 QQ 119 QQ

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
53.0 - 207.7 (Cont'd)			From 109 ft - 113 ft. there is more intense invasion of feldspars in the mafic material. Quartz, calcite and chlorite are still along the fracture planes. From 120 ft. the rock becomes lighter in colour, more silicious and marked by dark chloritic lines. From 126 ft - 129 ft. the rock is fractured and the core is broken in smaller fragments. From 140 ft, pyritization and silicification increases and from 153 ft. - 156 ft fracturing is very intense. At 156 ft pyritization weakens but silicification and chloritization is intense. From 168 ft - 176 ft silicification brecciation, fracturing and chloritization increases and from 176 ft - 178 ft. the rock is mylonitized, brecciated and gougy (fault ?). From 182 ft - 186 ft. the rock is solid and core is in large pieces (up to 1 ft. long) From 196 ft - 199 ft, it is fractured and broken. From 204 ft to end of interval there is intense pyritization.	
207.7 - 208.7	1	100	Quartz vein, vugy, with irregular contacts. Pyrite and minor tetrahedrite are detected throughout. Three grains of native gold of approximately 1mm in size each, were detected.	120 QQ
208.7 - 390.0	170	94	Green andesite, heavily pyritized for the first 4 ft. Some sections with heavy chloritization. At 234 ft. there is a 1" wide quartz vein with intense pyritization in the walls. At 239 ft and 242 ft quartz veins 2" wide each, at 50° to core axis, in intensely pyritized and brecciated rock. At 244.5 ft to 246.5 ft. quartz vein poorly mineralized but surrounded by intensely pyritized volcanic. From 240 ft - 250 ft very fractured rock with broken core. At 249.5 ft there is 3" zone of silicious breccia. From that point, the rock is again lighter green, massive silicious with dark chloritic lines. Some narrow, pyritic sections are appearing throughout the interval.	121 QQ 122 QQ 123 QQ 124 QQ 125 QQ 126 A 127 A

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
208.7 - 390.0 (Cont'd)			<p>From 285 ft - 288 ft the zone is invaded by feldspars and chlorite At 294.5 ft. there is a 3" quartz vein at 40° to core axis. At 298 ft. and 312ft. there are brecciated sections 1 ft. wide. From 300 ft to 306 ft there is an intensely pyritized section (some crystals up to 8 mm) enveloping 1 ft. quartz vein. At 304 ft - 305 ft. there is some mariposite present in the vein. From 316 ft to 336 ft. the rock is silicified, brecciated and sporadically intensely pyritized. Quartz veins are at 318 ft (2") 325 ft (1 ft - heavily pyritized) 327 ft (2" vein) 334 ft (3") From 335 ft - 336 ft. the zone is invaded by silica. At 341 ft. there is 1 ft of brecciated rock. From 142 ft - 347 ft. the rock is broken and 2 ft of core is lost. At 351 ft dark green andesite with a number of quartz veinlets 1/4 to 1/2 inch wide starts. At 377 ft. there is a 5" zone of amorphous silica. From 386 ft - 388 ft. the rock is again broken and only foot of core is recovered.</p>	
390.0			End of hole	

V. C.

ASSAY LOG

COMPANY NEWCOAST SILVER MINES LTD. PROPERTY VAN CLAIMS - CASSIAR, B.C. HOLE No. 3 - 79

NVC engineering ltd.
VANCOUVER, B.C.

ASSAYED by GENERAL TESTING LABORATORIES

DATE October 1979

SAMPLE No.	From	To	Feet	oz/t Au	oz/t Ag	Cu %					
115 00	79.0	81.0	2.0	.002	Tr	.01					
116	141.0	145.0	4.0	.002	.12	.01					
117	145.0	151.0	6.0	.002	Tr	.01					
118	151.0	156.0	5.0	.006	Tr	.01					
119	204.0	207.7	3.7	.002	.07	.01					
120	207.7	208.7	1.0	7.503	.53	.01					
121	208.7	213.0	4.3	.048	.22	.01					
122	240.0	244.5	4.5	.022	.04	.01					
123	244.5	247.0	2.5	.016	.13	.01					
124	289.0	294.5	5.5	.040	.10	.01					
125	300.0	306.0	6.0	.024	.04	.01					
126 A	316.0	326.0	10.0	.008	.04	.01					
127 A	326.0	336.0	10.0	.014	Tr	.01					
AVERAGE	207.7	213.0	5.3	1.455	.28	.01					

V. [Signature]

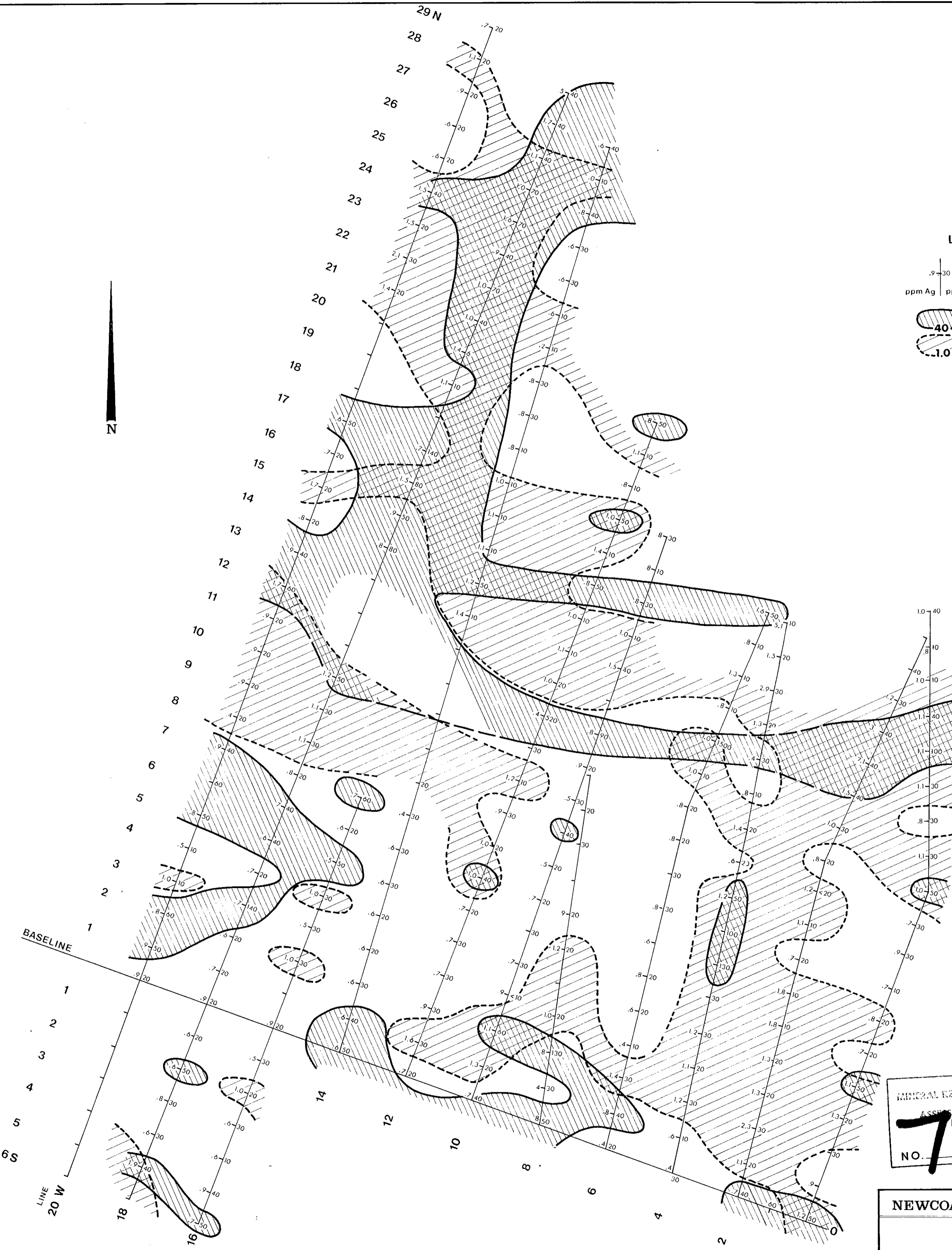


LEGEND

- 2 Volcanics, mainly andesite
minor tuff
- 1 Sediments, mainly black shale,
occas. limestone
- Bedding
- Fracture
- Mineralized vein
- q quartz
- py pyrite
- t tetrahedrite
- ch chalcopyrite
- Geological contact
- Synclinal axis
- Outcrop boundary
- 33.5 Reconnaissance soil sample location
- 130 ppb gold (highly anomalous values
only)
- Trench
- Swamp
- 1-79 Diamond Drill Hole

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 7809

NEWCAST SILVER MINES LTD. (N.P.L.)
VAN MINERAL CLAIMS
GEOLOGICAL MAP
LIARD M.D., B.C. 104-P-4,5
NVC ENGINEERING LTD VANCOUVER, B.C.
DATE: Jan. 1980 SCALE 0 100m FIG. 3



LEGEND

- Soil sample station
- ppm Ag ppb Au
- > 40 ppb Au
- > 1.0 ppm Ag

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
7809
NO.


V. Cukor

NEWCAST SILVER MINES LTD (N.P.L.)	
VAN MINERAL CLAIMS GRID # 1	
GEOCHEMICAL MAP GOLD & SILVER PLOT	
LIARD MD., B.C.	104-P-4,5
NVC ENGINEERING LTD.	VANCOUVER, B.C.
DATE: Jan. 1980	SCALE: 0 100 200'
	FIG. 4

To accompany Assessment Report by V. Cukor, P.Eng., dated January 1980.

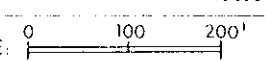


LEGEND

- 415 | Readings in gammas
-  >450 gammas



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
7809
NO. *V. C.*

NEWCOAST SILVER MINES LTD (N.P.L.)	
VAN MINERAL CLAIMS	
GRID #1	
MAGNETIC SURVEY	
LIARD M.D., B.C.	104-P-4,5
NVC ENGINEERING LTD.	VANCOUVER, B.C.
DATE: Jan. 1980	SCALE:  FIG. 6