

MINISTRY OF ENERGY,
MINES & PETROLEUM RESOURCES

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January 1980

TAY GROUP

PORT ALBERNI M.D., B.C. 92 F/6W

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

7963

NO

REPORT on 1979 Exploration program

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

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TAY GROUP

PORT ALBERNI, B.C. AREA

1. INTRODUCTION

This report summarizes the results of the 1979 field program conducted on the TAY mineral claims. A total of \$24,960.00 was spent, of which part will be recovered from the B.C. Government Grant awarded for exploration purposes on the property.

During the start of the program, the old grid located in 1978 was first repicketted and lines were extended westward. The whole grid was then soil sampled and an EM-16 survey was carried out over the newly cut lines. Detailed geological mapping was performed over most of the grid area as a final preparation for diamond drilling, which was carried out during the month of November. Limited work was also performed on the main showing. An attempt was first made to open the showing

1. INTRODUCTION (Cont'd)

by hand trenching, and in the late stage of the program, a D-7 bulldozer was used for limited trenching.

F. Milakovich, G. Kachuk, and D. Cukor were involved in linecutting, soil sampling and trenching.

G. Keyte, geologist, performed the geological mapping and supervision during the drilling. D.J. Drilling Ltd., Surrey, B.C. was employed to perform the diamond drilling and Rayner and Bracht Limited, Port Alberni, B.C. provided the bulldozer support. Overall supervision was by V. Cukor, P. Eng. All drill core has been moved to Vancouver, B.C. and stored with Mr. Milakovic, President of the company.

2. REVIEW

2.1 SUMMARY

The TAY claims are underlain by the volcanics of the Upper Triassic Karmutsen Formation, which are intruded by the Late Triassic Island Formation quartz diorite. Several auriferous quartz veins are known in the area, of which at least one so far is found to outcrop on the property. Gold bearing pyritized quartz float is widespread over the TAY #1 and #2 claims.

EM-16 surveys outlined a number of conductive zones and geochemical soil sampling returned some attractive values in gold, silver and copper. However, diamond drilling on two promising EM-16 anomalies revealed disappointing results. Both anomalies were apparently caused by the zones of intense fracturing filled with gouge.

Limited trenching of the No. 1 showing produced encouraging results however, by expanding the exposed length of the quartz vein to over 40 ft.

2. REVIEW (Cont'd)

2.1 SUMMARY (Cont'd)

Sampling of this showing produced some encouraging assays so far, but also clearly indicates erratic nature of the gold distribution.

2.2 CONCLUSIONS AND RECOMMENDATIONS

Exploration results of 1978 and 179 field programs on the TAY claims undoubtedly proved the presence of gold on the property. However, wide spread gold bearing float and attractive geochemical values in the soil could not be tied to any source so far, while the EM-16 anomalies were connected to zones of fracturing rather than the accumulation of sulfides.

The No. 1 showing, with its size and some encouraging assays stands out as a target worth exploring. Down dip and strike extensions should be tested by diamond drilling. A diamond drill program of 500 ft B.Q. drilling in four holes is recommended for this purpose. At the same time, more intensive prospecting should be carried out on TAY 4.

2. REVIEW (Cont'd)

2.3 COST ESTIMATE

The following costs are estimated for the completion of this stage of the program:

1. Diamond drilling	500 ft.all included	14,000.00
2. Geologist		2,000.00
3. Assays		300.00
4. Travel Expenses		800.00
5. Report		<u>1,500.00</u>
		18,600.00
Contingencies		<u>1,400.00</u>
		<u>\$20,000.00</u>

3. PROPERTY

3.1 CLAIMS

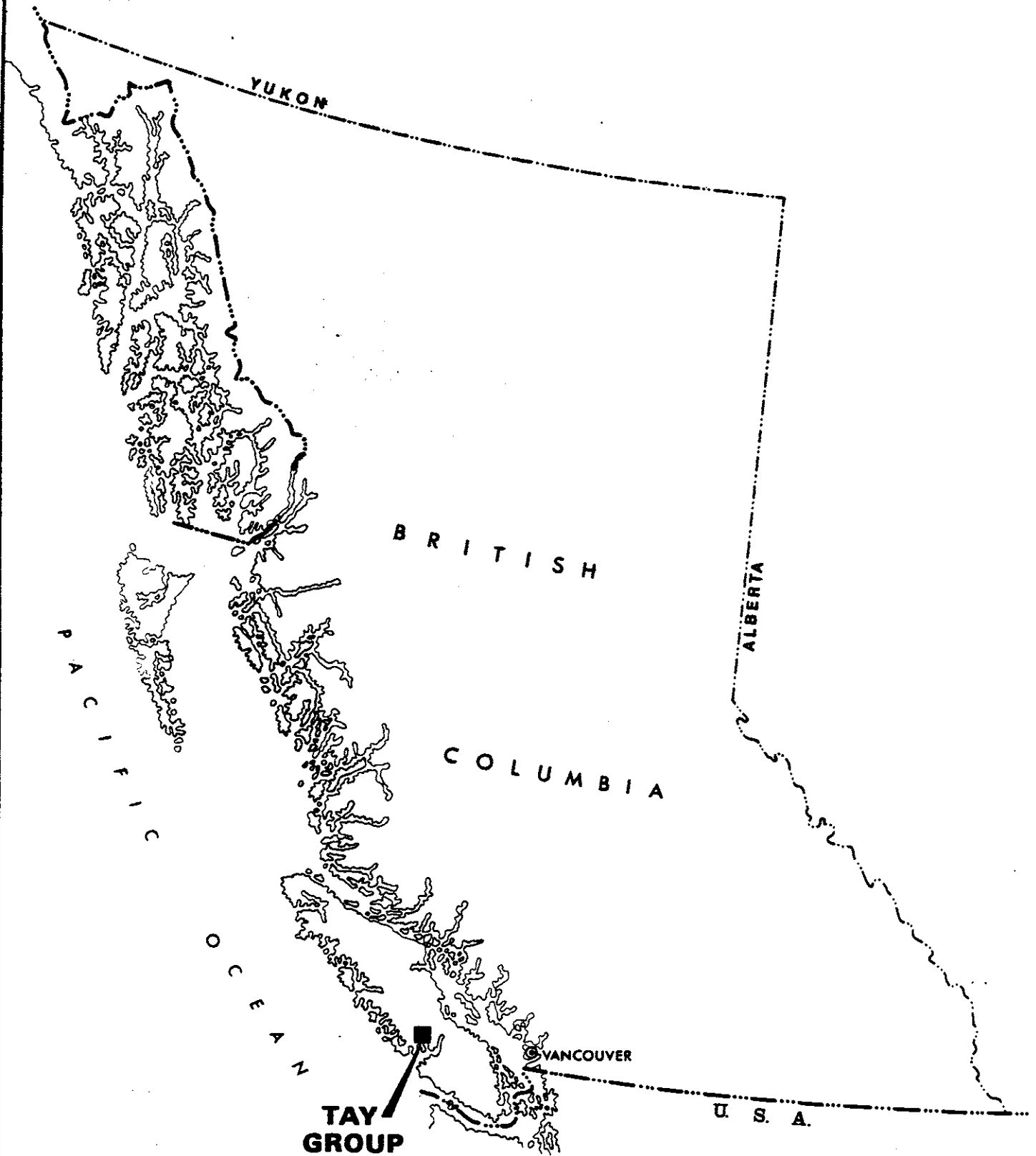
The TAY property is comprised of 18 contiguous full size mineral claims. The claims and record numbers are as follows:

<u>Claim</u>	<u>Record No.</u>	<u>Expiry Date</u>
TAY 1 - 8	173 - 180 (Inc.)	March 17
TAY 9 - 12	368 - 371	February 14
TAY 13 - 18		"

All claims were located on the two post system

3.2 LOCATION

The TAY mineral claims are located on the south western part of Vancouver Island only a few kilometres west of Sproat Lake and immediately north of Taylor River. They are in the Alberni Mining Division, on Map 92F/6W NTS and are centred at approximately latitude $49^{\circ}19'$ north and longitude $125^{\circ}15'$ west. Along the eastern border they adjoin Crown Granted claims which were known in the past as the Morning and Apex groups.



TAY GROUP

LOCATION MAP

ALBERNY M.D., B.C.

92 F/6W

V.CUKOR, P.Eng. - NVC ENGINEERING Ltd. VANCOUVER, B.C.

DATE: Jan. 1980

SCALE: 0  100 Miles

FIG. 1

3. PROPERTY (Cont'd)

3.3 ACCESS

The property is readily accessible from Port Alberni via paved highway #4 which crosses the southern part of the claims. All parts of the property can be reached using a number of good quality dirt logging roads which join the highway.

The closest supply centre is Port Alberni approximately 40 Km east, which in turn connects with the main Island Highway by a paved road providing good access from Vancouver via Nanaimo and/or Victoria.

3.4 TOPOGRAPHY AND CLIMATE

The TAY group of claims occupies the northern side of the Taylor River valley and it is spread over elevations from 200 ft to 2,500 ft. above sea level. From the narrow valley floor, a gentle slope rises northward for a distance of approximately 400 metres, where barren bluffs start. Between an elevation of 1,500 ft. to 2,000 ft. the slope gradually flattens into plateau.

3. PROPERTY (Cont'd)

3.4 TOPOGRAPHY AND CLIMATE (Cont'd)

Between the valley bottom and the plateau, several horizontal benches were formed by a combination of horizontal and vertical fracturing, erosion and infill of glacial material.

The climate of the area is characterized by hot summers and mild winters, and high atmospheric precipitation. Snow cover is usually light, but in some extremes it can exceed 4 ft. Several small streams provide sufficient water for exploration purposes.

The lower part of the property has been logged off. The higher elevation is covered by a thick forest of large cedar and fir trees. Sporadically, there is a thick growth of underbrush.

4. HISTORY

A number of gold bearing quartz veins in the area have been known since 1899. The most prominent ones are Morning and Apex veins, which are now covered by converted crown granted mineral claims, adjoining the TAY property along its eastern border. Intermittent exploration has been carried out on the veins, consisting mostly of hand pitting and trenching. One 107 metre adit was also excavated along the Morning vein. Some of the records and assay results of these workings are found in old Minister of Mines Reports. Some of the showings and workings were reported to be in the area now occupied by the TAY claims. However, it is very difficult to identify these old workings on the ground since extensive logging debris now covers the southern part of the claims.

More recently, the Crown Grants were explored by several companies. On at least three occasions, limited diamond drilling was carried out and lately a long adit has been excavated along the Morning vein.

4. HISTORY (Cont'd)

The gold values were apparently fairly low and erratic and the project was abandoned.

Grass root exploration on the TAY claims started October 1978. The program included prospecting, limited geological mapping and geophysical EM-16 survey. Discovery of a number of conductive zones resulted in acquiring more ground and the recommendation by the author for further exploratory work.

5. GEOLOGY

5.1 GENERAL GEOLOGY

The regional geology of the area was the subject of G.S.C. Paper 68-50 by Mr. G.E. Muller, 1969, accompanied by Map 17-68. Accordingly, the property area is underlain by the volcanic rocks of the Upper Triassic Karmutsen Formation. This is mostly composed of andesitic flows which may also include tuffs and limestone beds.

The Karmutsen Formation has been invaded by the Late Triassic granitic intrusive of the Island Formation. On G.S.C. Map, these rocks are shown as only a few miles northwest of the claims. However, geological mapping of the property area revealed small acidic intrusives on the south part of the claim group.

Most of the regional faults in the area follow a west-northwest strike, which is also the general direction of the Taylor River.

5. GEOLOGY (Cont'd)

5.2 LOCAL GEOLOGY

Detailed geological mapping of the southern part of the claim group was performed by Mr. G. geologist. The geological features encountered are shown on the Outcrop Geology Plan, scale 1:2,000 (see Fig. 2)

5.2.1 ROCK TYPES

The dominant rock type of the property is a dark green to almost black andesite of the Upper Triassic, or older, Karmutsen Formation (Muller 1969)

The andesite is very fine grained and featureless with very little variation of texture. It is assumed that this is dominantly a series of lava flows. At two places atypical textures were found: at station 220 W on line 100 N, the texture is tuffaceous with a grain size of 1 - 2 mm. At station 640 W on line 100 N, hematite lies along the flow banding in the lava with an attitude of 20°/90°.

5. GEOLOGY (Cont'd)

5.2 LOCAL GEOLOGY (Cont'd)

5.2.1 ROCK TYPES (Cont'd)

The andesite shows incipient chloritization characteristic of regional metamorphism of the base of the greenschist facies. Chlorite and epidote are infrequently developed along the fractures while small irregular patches of quartz up to 20 cm across are scattered throughout the property. Special attention was given to the andesites in the vicinity of the EM-16 anomalies, but no cause for any one of these could be found.

The andesite is intruded by quartz diorite stock and many small dykes of the Late Triassic Island Formation (Muller 1969)

The pattern of intrusion is very irregular with the intrusive itself cut by numerous dykes of similar material. The density of the dykes is very great near the margin of the intrusion and decreases with distance.

5. GEOLOGY (Cont'd)

5.2 LOCAL GEOLOGY (Cont'd)

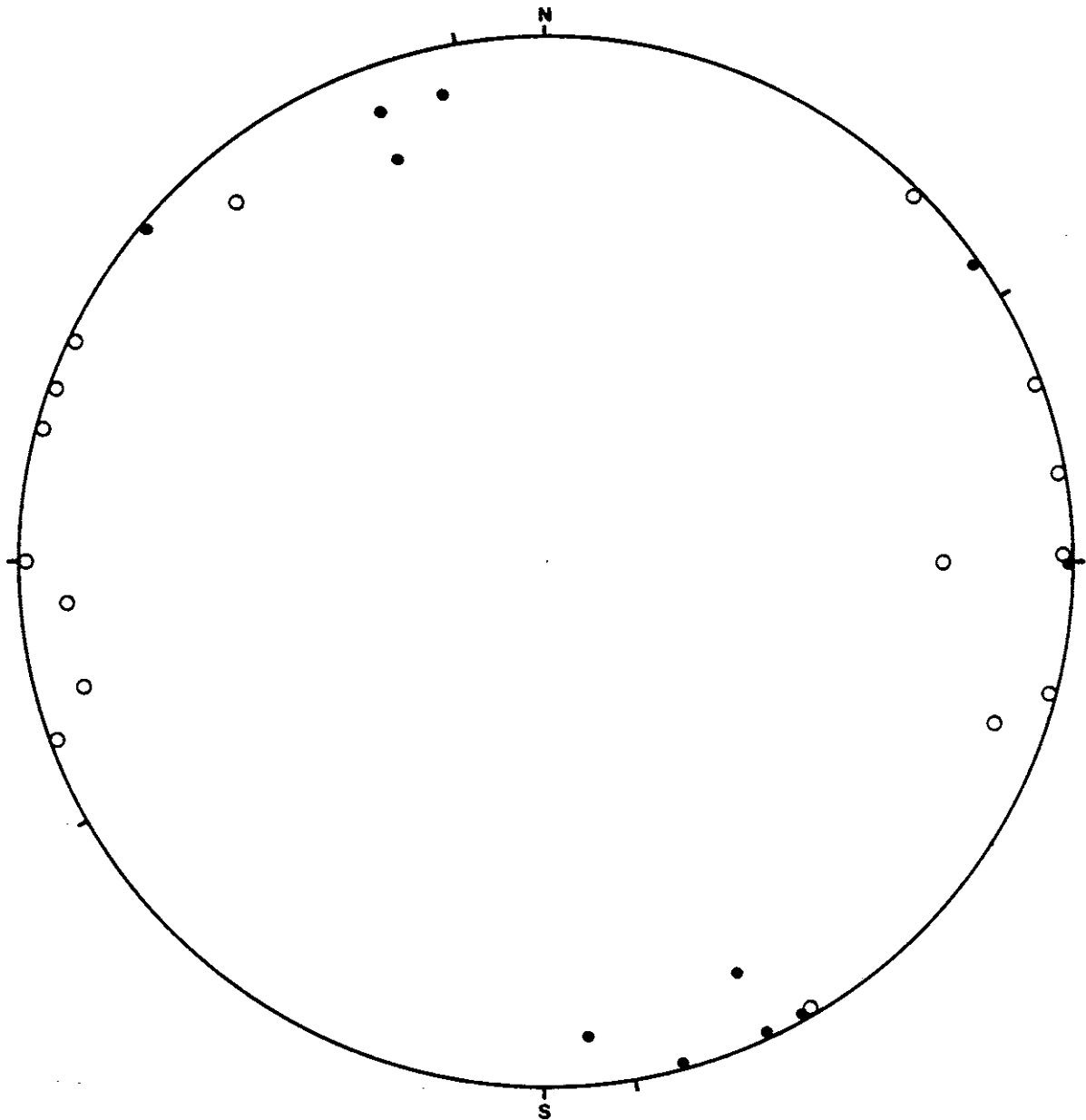
5.2.1 ROCK TYPES (Cont'd)

The composition of the intrusion is variable. It is usually high in quartz (20% - 30%) but in places it contains up to 80% hornblende while at other locations it is a white feldspar porphyry. Pyrite is scattered throughout the intrusion, usually 1%, and locally rock contains up to 2% - 3% crystalline magnetite.

The intrusion locally displays compositional layering with the hornblende and quartz feldspar forming alternating black and white bands 3 - 5 mm in width, which are sometimes folded. The contacts with the andesite country rocks are sharp without any trace of mineralization.

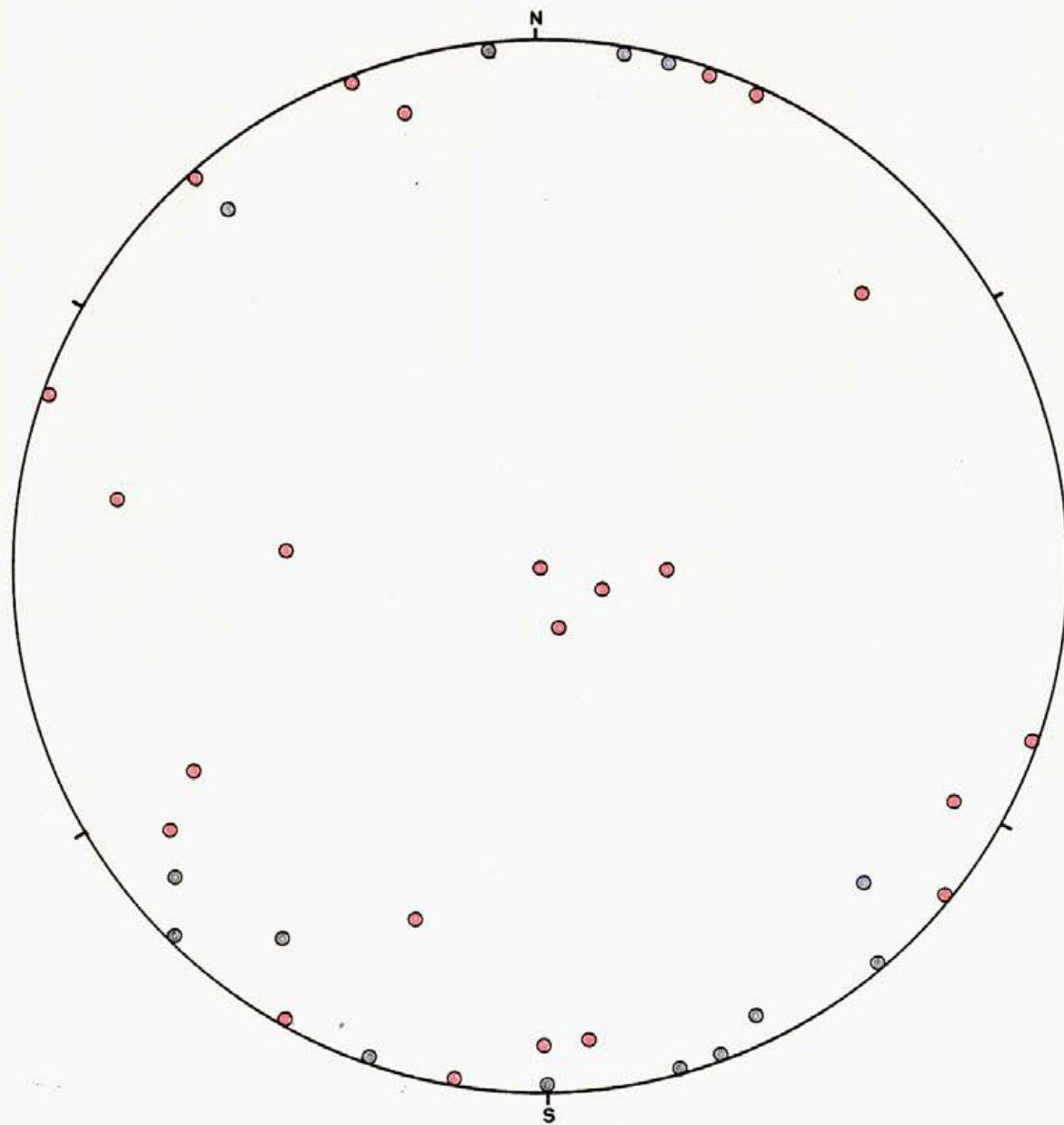
Compositional layering and dykes were plotted on a stereographic net. They both spread out with a strike of between 150° - 180° and 0° - 80° and a dip of 80° east to 80° west, (Fig. 3).

**EQUAL AREA STEREOGRAM OF
 10 POLES TO PLANES OF COMPOSITION LAYERING IN INTRUSIVE ROCKS ●
 AND TEN POLES TO PLANES OF DYKES ○
 UPPER HEMISPHERE PLOT**



TAY GROUP		
STEREOGRAM 1		
ALBERNY M.D., B.C.		92 F/6W
V.CUKOR, P.Eng. NVC ENGINEERING Ltd. VANCOUVER, B.C.		
DATE: Jan. 1980	SCALE:	FIG. 3

EQUAL AREA STEREOGRAM OF 37
POLES TO FRACTURE PLANES IN INTRUSIVE ROCKS
UPPER HEMISPHERE PLOT



TAY GROUP

STEREOGRAM 2

ALBERNY M.D., B.C.

92 F/6W

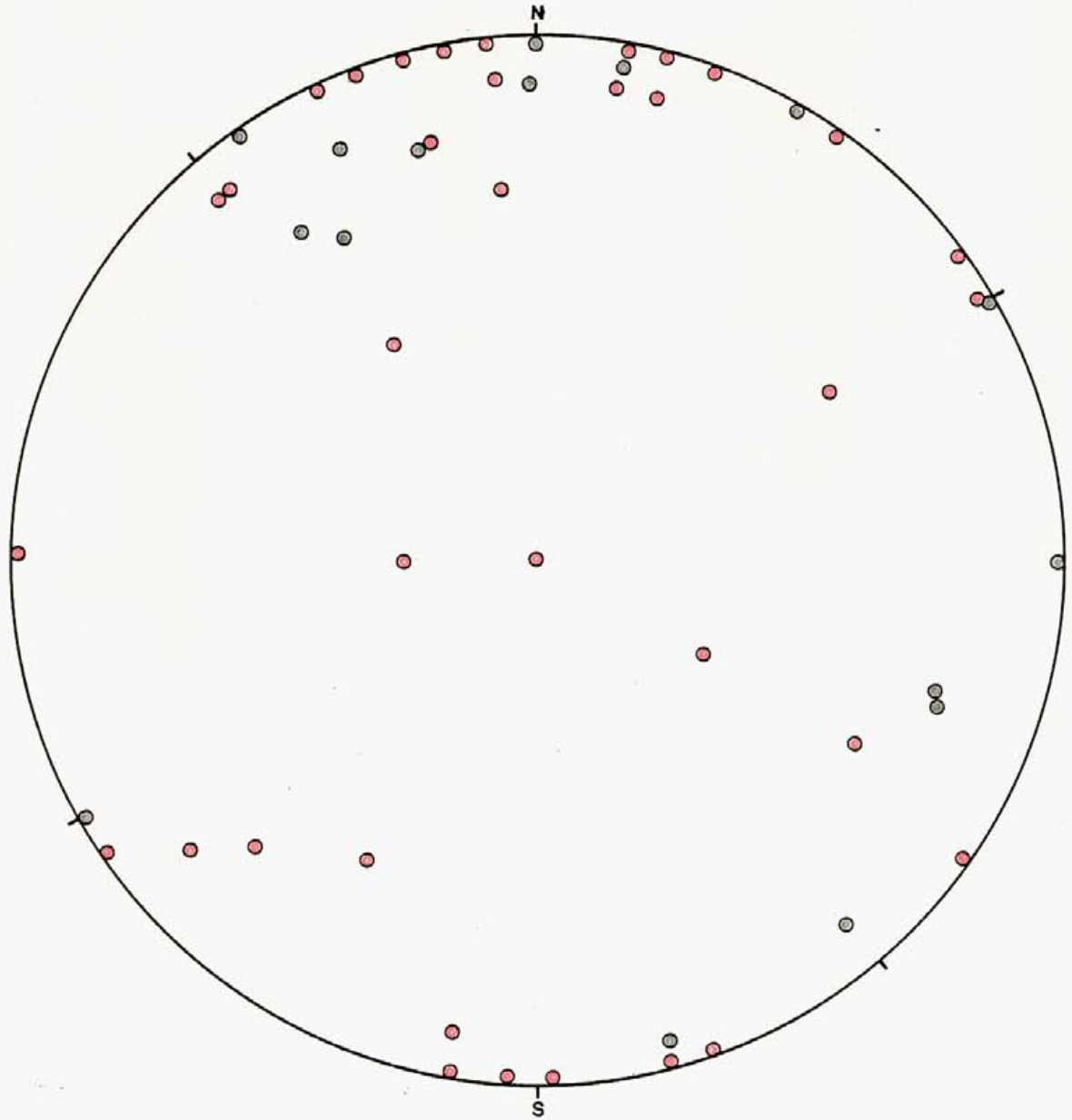
V.CUKOR, P.Eng. NVC ENGINEERING Ltd. VANCOUVER, B.C.

DATE: Jan. 1980

SCALE:

FIG. 4

EQUAL AREA STEREOGRAM OF THE POLES TO
49 FRACTURE PLANES IN VOLCANIC ROCKS
UPPER HEMISPHERE PLOT



TAY GROUP

STEREOGRAM 3

ALBERNY M.D., B.C.

92 F/6W

V.CUKOR, P.Eng. NVC ENGINEERING Ltd. VANCOUVER, B.C.

DATE: Jan. 1980

SCALE:

FIG. 5

5. GEOLOGY (Cont'd)

5.2 LOCAL GEOLOGY (Cont'd)

5.2.2 FRACTURING

A stereographic net was plotted of 49 fracture planes in the volcanic rocks and 37 fracture planes in the intrusive rocks, (Fig. 4 and 5)

The fractures show a tendency to cluster around $100^{\circ}/90^{\circ}$ with a spread of 50° - 150° strike, and 80° south to 80° north dip. Both the No. 1 showing on the property and the Morning vein lie within this range. A small portion of the fractures are approximately horizontal with a spread of up to 20° dip in any direction.

Finally, it should be noted that two pyritized fractures on different parts of the property have exactly the same attitude $20^{\circ}/70^{\circ}$ E. This may be a preferred orientation for sulphide mineralization.

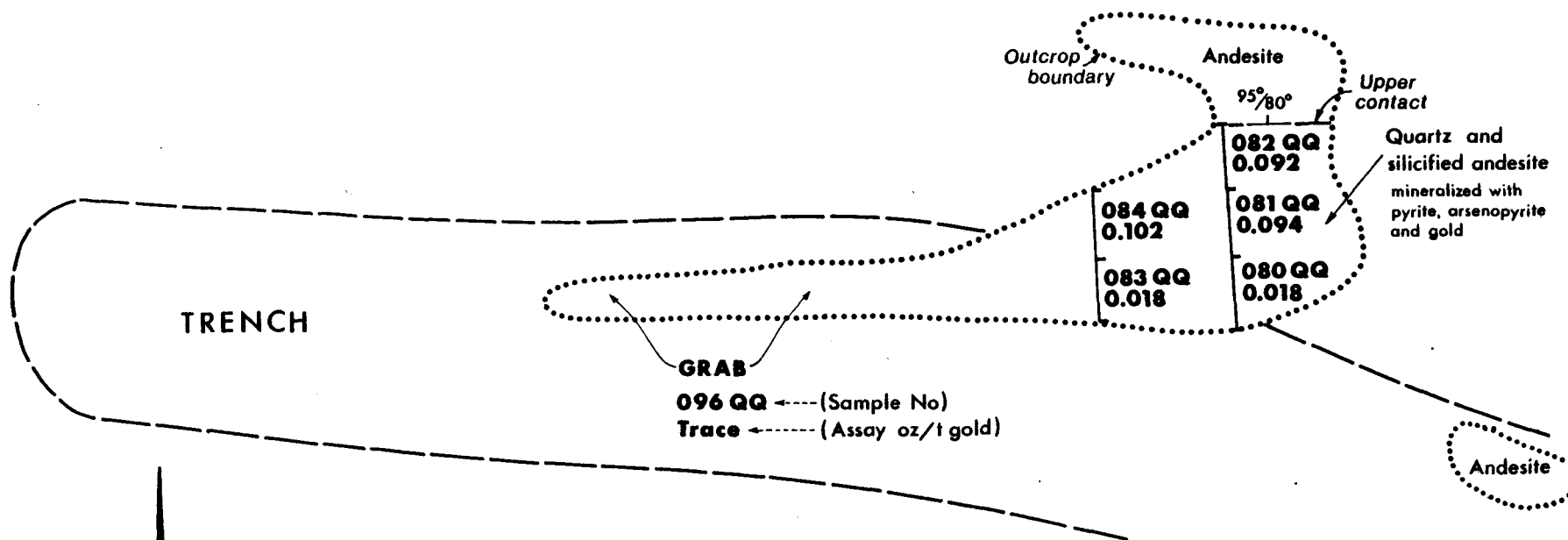
5. GEOLOGY (Cont'd)

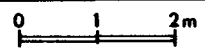
5.2 LOCAL GEOLOGY (Cont'd)

5.2.3 MINERALIZATION

Heavily pyritized quartz with or without gold appears in a number of veins and widely scattered float. The No. 1 vein is plotted on the geological map. This vein contains pyrite, some arsenopyrite, gold and minor chalcopyrite, the same as the Morning vein on the adjoining property. The gold is not visible and assays ranged from trace to up to .2 oz/t. During the drill program, the bulldozer was used for some limited trenching on this showing and it was opened up for an additional 25 ft. (see fig. 6)

Veins #2, #3 and #5 are pyrite in quartz only. Showing #4 is an irregular silicified and pyritized area several metres across, within green andesite.



TAY GROUP		
SHOWING No 1 SAMPLE PLAN		
ALBERNY M.D., B.C.	92/F 6W	
V.CUKOR, P.Eng. NVC ENGINEERING Ltd. VANCOUVER, B.C.		
DATE: Jan. 1980	SCALE: 	FIG: 6

5. GEOLOGY (Cont'd)

5.2 LOCAL GEOLOGY (Cont'd)

5.2.3 MINERALIZATION (Cont'd)

There is no evidence to suggest that any of the mineralization found so far on the property is associated with the intrusion.

Mineralized float is widespread over the property and numerous samples were assayed in the past, with assays ranging from trace to .3 oz/t gold. However, the source of this float remains uncovered so far. Two EM-16 anomalies were drill tested, but no accumulation of sulfides was found and it seems that both anomalies were caused by the zones of intense fracturing filled with gouge. This would explain the fact that the EM-16 anomalies show a tendency to lie along shallow gullies and that generally they are not concordant with the strikes of the majority of mineralized veins.

6. GEOCHEMICAL SOIL SURVEY

6.1 SAMPLING

The old grid, located during the 1978 EM-16 survey, was recut and picketed and some additional lines were cut, some were extended. Most of the lines are 50 metres apart and stations were marked at 25 metre intervals. The whole grid area was then soil sampled.

Samples were collected from a shallow hole dug by mattock, preferably from the "B" horizon which is usually at a depth from 2 - 5 inches. Samples were packed in the standard paper envelopes and delivered to General Testing Laboratories, Vancouver, B.C. for processing.

6.2 LABORATORY PROCEDURE

All samples were assayed for gold, silver, copper and lead. The Laboratory reported the samples were processed as follows:

6. GEOCHEMICAL SOIL SURVEY (Cont'd)

6.2 LABORATORY PROCEDURE (Cont'd)

A. GOLD

- | | |
|--|--------------------------------|
| 1. Sample sifted to | - 80 mesh |
| 2. Weight used | 15 grams |
| 3. Bead produced by fire assay dissolved in hot aqua regia | |
| 4. Volume of dilution used | 5 mil |
| 5. Method of Analysis | Atomic Absorption Spectrometry |
| 6. Instrument | Jarill Ash 850 |

B. SILVER, COPPER AND LEAD

- | | |
|----------------------------|--------------------------------|
| 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 Ash 850 |

6.3 DATA PRESENTATION

Two geochemical plans, scale 1:2,000 have been prepared and presented in the report. Fig. 7 shows gold and silver values and copper and lead results are plotted on Fig.8.

6. GEOCHEMICAL SOIL SURVEY (Cont'd)

6.4 DISCUSSION OF RESULTS

A total of 258 samples was collected and assayed for gold, silver, copper and lead. Since the values for lead were uniform and low except for several higher than average values, no statistical evaluation of lead results was carried out.

Silver, copper and especially gold values show erratic distribution of high readings, which could not be explained by geological features. Backgrounds for copper of 90 ppm and .75 ppb for gold over a large area is unusually high and can hardly be explained by the presence of one or several mineralized veins.

A reasonable explanation should be found for these high values in the soil, as well as the presence of extensive mineralized float over a large part of the property.

7. ELECTROMAGNETIC SURVEY

Only a very limited EM-16 survey was carried out at this stage of the program over the extended and newly cut parts of the grid. The survey was carried out by S. Presunka, using Ronka EM-16 Serial No. 2. As a result of this survey, previously found anomalies in the western part of the grid are better defined and extended, and the old "D" and "G" anomalies joined together. All EM-16 anomalies are shown on the Electromagnetic Survey Plan Fig 2 , scale 1:2000

8. DIAMOND DRILLING

Two holes were designed to test the A and B conductive zones discovered by the 1978 S. Presunka Survey. A drill contract was awarded to D.J. Drilling Ltd, Surrey, B.C. who employed a B.B.S.-1 drill to complete 454 feet of B.Q. drilling in two holes. The drill locations are shown on geological map, Fig. 2 and diamond drill records have been appended to the report.

Hole #1 was located on the "A" anomaly and drilled down to 206 ft. Hole #2 tested "B" anomaly and was completed to a depth of 248 ft. Drilling was done very efficiently with excellent core recovery. Most of the drilling in both holes was through quartz diorite with only low grade disseminated pyrite present. Split and assayed sections returned only traces of gold. No large accumulation of sulfides was found in the areas with EM-16 response.

Respectfully submitted,



VLADIMIR CUKOR, P. ENG.

JANUARY 1980

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 the property nor do I expect to receive or acquire any.
6. I hereby consent to the use of this report in or in connection with Assessment Filing, Statement of Material Facts or Prospectus.

January 1980


VLADIMIR CUKOR, P. ENG.

APPENDIX "A"

List of personnel employed and costs incurred during the
1979 field program on the TAY CLAIMS.

PERSONNEL

1. NVC ENGINEERING LTD.

V. Cukor	Professional Engineer
G. Keyte	Geologist
G. Kachuk	Prospector
D. Cukor	Helper

Linecutting, geochemical soil survey, geological mapping
field supervision, report

2. PRESUNKA GEOPHYSICAL EXPLORATIONS LTD.

S. Presunka	Operator EM-16 Survey
-------------	--------------------------

3. D.J. DRILLING LTD.

Diamond drilling

4. RAYNER & BRACHT LTD.

Bulldozer work

COSTS INCURRED

1. NVC Engineering Ltd.	Sept. 26, 1979	4,426.05
2. NVC Engineering Ltd.	Dec. 20, 1979	4,767.16
3. NVC Engineering Ltd.	Jan. 15, 1980	15,767.68
		<u>\$24,960.89</u>

V. Cukor



engineering ltd.

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

DALMATIAN RESOURCES LTD
VANCOUVER, B.C.

SEPTEMBER 26, 1979
Invoice # 213

Re: TAYLOR RIVER PROJECT
September 7 - 15 1979

Wages

V. Cukor	9 days	@ 250.00	2,250.00
G. Kachuk	9 days	@ 100.00	900.00
D. Cukor	3 days	@ 75.00	225.00

Field expences

Motel			254.55
Truck Rental	9 days	@ 35	315.00
Restaurant			193.27
Groceries			145.53
Ferry			32.00
Gasoline			52.70
Misc. expences			58.00

Total charges \$4,426.05



engineering ltd.

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

DALMATIAN RESOURCES LTD
VANCOUVER, B.C.

December 20, 1979
Invoice # 218

Geological mapping and geochemical assays;

Geologist 12 days @ \$ 175.00	\$ 2,100.00
Field expences & vehicle rental	505.64
Data compilation, V. Cukor, P. Eng, 2 days @ 250.00	500.00
General Testing, soil sample assays	<u>1,661.52</u>
Total	\$ 4,767.16

V. Cukor



engineering ltd.

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

DALMATIAN RESOURCES LTD
VANCOUVER, B.C.

January 15, 1979
Invoice # 223

TAY-PROJECT diamond drilling, November 1979

D.J.Drilling Ltd.	\$ 10170.00
Rayner and Bracht Ltd (bulldozer)	1745.45
G. Keyte, geologist 8 days @ 175	1400.00
Field expences & vehicle rental	821.11
General Testing (assays)	122.25
V. Cukor, P.Eng. Field trip 1 day	250.00
Field expences	108.87
Report	1150.00
	<hr/>
Total charges	\$ 15767.68

V. Cukor


APPENDIX "B"

STATEMENT OF QUALIFICATION

Geological mapping, core logging, and field supervision of the drill program was performed by Mr. G. Keyte, geologist.

In connection with this, I hereby certify that Mr. Keyte is a graduate of the University of London, England with a B. Sc. in Geology and has practised his profession for seven years for various companies (Atled Exploration Management Ltd., Seram Ltd., Teck Corporation Ltd., etc.). During this time, he has participated in various programs under my supervision. I found Mr. Keyte to be a well experienced and fully competent to perform the above mentioned duties.

June 1980


V. CUKOR, P. ENG.

DIAMOND DRILL RECORD

COMPANY.....

PROPERTY..... TAY CLAIMS

NVC engineering ltd.
VANCOUVER, B.C.

Hole No. 1
Date Begun November 16, 1979
Date Finished November 18, 1979
Drill BBS - 1
Core Size

Lat. Total Depth 206 ft.
Dep. Logged by: G. Keyte
Bearing 61° Date November 18, 1979
Elev. Collar 300 ft. Claim TAY 2
Dip -55°

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
0.0 - 11.0			No core, casing	
11.0 - 34.0	23	100	Quartz diorite, medium grained (grain size up to 2 mm). Consists of 30% quartz, 40% feldspar, 30% hornblende. In places, there is up to 2% crystalline magnetite, and .1 - .3% pyrite is scattered throughout. Some 1 mm wide quartz veinlets throughout. From 12 - 13 ft. the core is broken up. From 24' - 26' quartz bands 5 - 10 mm wide; 33 ft - 34 ft is a contact, sharp steeply dipping	
34.0 - 81.0	47	100	Andesite, very fine grained, medium green. Up to 1% pyrite scattered throughout. Fractures and 1 mm wide quartz veinlets throughout. At 46 ft - 31 ft, noted trace of chalcopyrite. At 77.5 ft to 81.5 ft. steep, irregular sharp contact	
81.0 - 121.0	40	100	Quartz diorite, medium grained, consists of 30% quartz, 40% feldspar, 30% hornblende. Rock also contains an average of about 5% quartz veins (1 - 5 mm wide) Core in places is broken up. From 81 ft - 88 ft there is about 5% epidote in patches and stringers.	
121.0 - 130.5	9.5	100	Quartz diorite, much darker, coarser grained (3 - 4 mm grain size) more solid. Contains 20% quartz, 35% feldspar, 45% hornblende Some quartz veins (1 - 5 mm) also appear.	

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
130.5 - 145.0	14.5	100	Feldspar porphyry, much lighter colour, finer grained (1 - 2 mm) with some quartz veinlets. 5% epidote as veins and patches. From 142 ft to 144 ft core is broken	
145.0 - 166.0	21.0	100	Quartz diorite, medium grained (3 mm grain size) consists of 30% quartz, 40% feldspar, 30% hornblende. Rock is fractured with quartz and epidote as filling	
166.0 - 168.0	2.0	100	Feldspar porphyry, abundant epidote (10 - 15%)	
168.0 - 177.0	9.0	100	Quartz diorite, medium grained (3 mm grain size) dark, contains 25% quartz, 35% feldspar, 40% hornblende. Some quartz veins and minor epidote also present	
177.0 - 184.0	7.0	100	Feldspar porphyry, very fractured and core is broken up . Some hematite and about 2% quartz veins are present throughout	090QQ
184.0 - 206.0	22.0	100	Quartz diorite, medium grained (2 mm grain size), dark grey, Contains 25% quartz, 35% feldspar, 40% hornblende. 1% - 2% quartz veins are also present along with 1 - 2% epidote. At 205 ft some specks of hematite.	
206.0			End of hole	

W. C.

DIAMOND DRILL RECORD

COMPANY.....

PROPERTY.....

NVC engineering ltd.
VANCOUVER, B.C.

Hole No. <u>2</u>	Lat.	Total Depth <u>248'</u>
Date Begun <u>November 19, 1979</u>	Dep.	Logged by: <u>G. Keyte</u>
Date Finished <u>November 20, 1979</u>	Bearing <u>275°</u>	Date <u>Nov. 20, 1979</u>
Drill <u>BBS-1</u>	Elev. Collar <u>400'</u>	Claim <u>TAY 2</u>
Core Size <u>BQ</u>	Dip <u>-65°</u>	

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
0.0 - 58.0			No core, casing	
58.0 - 99.0	41	100	Quartz diorite, medium grained (2 mm grain size). Consists of 30% quartz, 40% feldspar, 30% hornblende, minor epidote, very minor chlorite. From 77 ft to 80.5 ft. very broken rock with 2% - 3% pyrite. From 80.5 ft to 81.5 ft. rock is heavily invaded with banded quartz (50%) From 79.5 ft to 99 ft fairly broken with minor quartz stringers (1 mm wide)	091QQ 092
99.0 - 115.0	16	100	Quartz diorite, coarser grained (3 mm grain size). Some quartz veins are present (1 - 10 mm wide) and also some epidote	
115.0 - 117.0	2	100	Andesite, grey, fine grained. Very minor quartz stringers about 1 mm wide.	
117.0 - 124.5	7.5	100	Quartz diorite, medium grained, containing 30% quartz, 40% feldspar, 30% hornblende with slightly glassy ground mass. Also contains 2% quartz stringers and minor epidote	
124.5 - 132.0	7.5	100	Quartz diorite as above, finer grained, Noted abundant quartz (up to 5%) and minor epidote stringers. Core is broken up	
132.0 - 149.0	17.0	100	Quartz diorite as above, coarser grained (3 mm grain size) Minor pyrite and minor fine quartz stringers.	

DEPTH	Core Recovered		DESCRIPTION	SAMPLE No.
	Feet	%		
149.0 - 151.5	2.5	100	Grey andesite, solid, with very few quartz veinlets	
151.5 - 195.0	43.5	100	Quartz diorite, pale green, medium grained. Contains 0 - 10% hornblende, 60 - 70% feldspar, 30% quartz. Some quartz and/or epidote veining (5 - 10%) is also present. Patches of epidote and minor pyrite are also present.	
195.0 - 248.0			Quartz diorite, medium grained, containing 30% quartz, 40% feldspar and 30% hornblende. The section from 223 ft to 231 ft contains up to 1% pyrite. At 237 ft to 244.5 ft. broken rock chloritized with some clay and 3 % quartz veining. Toward the end minor epidote also present	093QQ 094QQ
248.0			End of hole	

V.L.W.

APPENDIX "C"



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:
H.V.C. ENGINEERING LTD.
 2841 West 18th Avenue
 Vancouver, B.C.
 V6L 1B7

CERTIFICATE OF ASSAY

No.: **7909-1765** DATE: **Oct. 22/79**

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

MARKED	GOLD	SILVER	Copper	Lead	XXX	XXX	XXX	XXX
	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)				
A	0.04	0.4	40	10				
B	0.02	0.9	85	12				
C	0.02	0.9	35	14				
D	0.02	1.1	67	16				
E	0.04	0.9	57	10				
F	0.02	1.1	67	11				
G	0.10	1.0	113	9				
H	<0.02	1.2	149	10				
I	0.04	1.1	144	9				
HL - 0-50S	0.04	1.1	114	11				
1-50S	<0.02	1.0	95	10				
LINE 0 - 1-20W	0.04	0.8	55	11				
1-40W	0.10	0.8	59	10				
1-60W	0.04	1.0	115	11				
1-80W	0.04	1.0	119	10				
2-00W	0.32	0.7	68	7				
2-00W	0.10	0.8	63	10				
40W (A)	0.28	1.0	119	12				
40W (B)	0.10	0.8	30	13				
80W	0.04	0.9	92	12				
LINE 50S - 1-00W	<0.02	0.9	57	13				
1-20W	0.04	1.1	151	11				
1-40W	0.04	1.1	88	11				
1-60W	0.10	1.1	124	11				
1-80W	0.04	1.2	158	11				
2-00W	<0.02	1.1	166	11				
20W	<0.02	0.6	48	9				
40W	<0.02	0.9	73	10				
60W	0.04	1.0	185	11				
80W	<0.02	1.1	152	13				
1-00E	<0.02	1.1	108	11				
1-20E	<0.02	0.8	65	9				
1-40E	0.04	0.9	55	11				
1-60E	<0.02	1.3	163	14				
1-80E	0.10	1.1	118	9				

Continued on page 2

R. Nadeau

R. Nadeau, Chemist

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(Continued) page 2

CERTIFICATE OF ASSAY

No.: **7909-1765** DATE: **Oct. 22/79**

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MARKED	GOLD	SILVER	Copper	Lead	XXX	XXX	XXX	XXX
	µg(ppm)	µg(ppm)	Cu (ppm)	Pb (ppm)				
LINE 508 -								
2+00E	0.04	1.0	104	9				
2+20E	0.02	1.2	202	15				
2+40E	0.38	1.2	215	17				
2+60E	0.04	1.3	154	11				
2+80E	0.04	1.3	209	14				
20E	0.04	0.9	94	9				
40+00E	0.10	1.0	111	9				
60E	0.02	1.2	175	9				
80+00E	0.20	1.0	108	9				
LINE 509 -								
1+00E	0.02	0.9	64	9				
1+20E	0.02	0.9	78	9				
1+40E	0.52	1.0	81	10				
1+60E	0.20	0.9	55	10				
1+80E	0.20	0.8	64	28				
2+20E	0.15	1.0	81	9				
2+40E	0.83	0.8	87	13				
2+60E	0.40	1.1	119	11				
2+80E	0.04	1.1	140	12				
3+00E	0.02	1.3	162	11				
3+20E	0.28	1.4	164	14				
3+40E	0.04	1.1	140	9				
3+60E	0.52	1.1	148	11				
3+80E	0.04	1.4	182	10				
4+00E	0.28	0.9	177	10				
20+00E	0.20	1.0	93	9				
40+00E	0.10	1.3	142	11				
60+00E	0.04	1.5	108	10				
80+00E	0.32	1.3	149	10				
1+00W	0.02	1.1	147	9				
1+20W	0.04	0.8	61	11				
1+40W	0.04	0.9	111	9				
1+60W	0.02	1.1	81	11				
1+80W	0.02	0.8	54	9				
2+00W	0.04	1.3	132	11				
2+20W	0.04	0.9	89	11				
2+40W	0.10	0.9	103	9				
2+50W	0.04	1.3	138	18				

/ Continued on page 3

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[Signature]
H. NADEAU, Chemist
 PROVINCIAL ASSAYER

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 (Continued) page 3

CERTIFICATE OF ASSAY

No.: **7909-1765** DATE: **Oct. 22/79**

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MARKED	GOLD		SILVER		Copper	Lead	XXX	XXX	XXX	XXX
	As (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)						
LINE 50N - 2+80N	0.04	0.8	75	9						
3+00N	<0.02	0.9	60	10						
3+20N	0.04	0.9	83	11						
3+40N	0.42	1.1	121	9						
3+80N	0.10	1.5	165	13						
4+00N (A)	0.24	0.3	18	13						
4+00N (B)	0.15	1.1	86	11						
4+20N	<0.02	0.3	36	23						
4+40N	0.15	0.8	104	8						
4+60N	0.24	0.6	50	8						
4+80N	0.10	0.7	43	8						
5+00N	<0.02	0.7	47	14						
5+20N	0.04	1.1	70	14						
20+00N	0.10	1.0	111	8						
40+00N	0.04	0.8	65	6						
80N	0.20	0.9	77	6						
LINE 100S - 1+00S	0.10	0.9	90	7						
1+20S	0.10	0.8	72	15						
1+40S	0.04	1.1	166	9						
1+60S	<0.02	1.0	119	11						
1+80S	0.04	1.1	117	14						
2+00S	0.04	1.1	110	9						
2+20S	0.04	0.8	74	14						
2+40S	0.04	1.1	118	7						
2+60S	<0.02	1.0	67	9						
2+80S	<0.02	1.1	155	10						
3+00S	0.55	1.1	139	24						
3+20S	<0.02	1.1	109	10						
3+40S	<0.02	0.9	101	16						
3+60S	0.04	1.0	105	7						
20+00S	0.05	0.8	75	8						
40S	0.03	0.5	42	8						
60S	0.09	0.9	115	7						
80S	0.05	0.8	61	8						
1+00W	0.03	0.9	72	8						
1+20W	0.05	0.8	115	7						
1+40W	0.09	0.9	110	8						

Continued on page 4

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R. HADSAU, Chemist

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TO:
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(Continued) page 4

CERTIFICATE OF ASSAY

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MARKED	GOLD		SILVER	Copper	Lead	XXX	XXX	XXX	XXX
	Au (ppm)	Ag (ppm)		Cu (ppm)	Pb (ppm)				
LINE 1008 -									
1+60W	0.03	0.8		92	6				
1+80W	0.33	0.8		78	8				
2+00W	0.48	0.8		52	6				
20W	0.03	0.9		149	8				
40W	0.09	0.6		22	7				
60W	0.03	0.9		100	7				
80W	0.05	0.8		38	8				
LINE 1009 -									
1+80W	0.03	1.1		178	8				
2+00W	0.10	0.9		129	10				
2+20W	0.05	0.9		86	8				
2+40W	1.64	0.7		83	8				
2+60W	0.10	0.8		79	8				
2+80W	0.13	0.6		43	8				
3+00W	0.14	0.8		44	11				
3+20W	0.14	0.8		79	9				
3+40W	0.10	0.8		39	10				
3+60W	0.08	0.8		87	9				
3+80W	0.10	0.9		69	9				
4+00W	0.18	1.0		80	9				
4+20W	0.32	0.7		79	6				
4+40W	0.13	1.0		146	16				
4+60W	0.14	0.9		135	14				
4+80W	0.13	0.9		71	12				
5+00W	0.15	0.8		34	9				
5+20W	0.14	0.8		91	6				
5+40W	0.15	0.7		111	10				
5+80W	0.04	0.6		38	8				
6+00W	0.05	0.9		112	7				
6+20W	0.09	1.0		78	9				
6+40W	0.05	1.1		74	9				
6+60W	0.14	0.9		76	7				
6+80W	0.14	0.9		74	9				
7+00W	0.09	0.9		87	9				
LINE 150N -									
1+00E	0.13	1.1		94	8				
1+20E	0.13	0.6		17	9				
1+40E	0.10	0.9		150	9				

/ Continued on page 5

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R. NADEAU, Chemist

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 (Continued) ... page 5

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MARKED	GOLD	SILVER	Copper	Lead	XXX	XXX	XXX	XXX
	Au(ppm)	Ag(ppm)	Cu (ppm)	Pb (ppm)				
LINE 150W - 1+60W	0.14	1.1	149	12				
1+80W	0.65	1.0	69	10				
2+00W	0.21	0.8	89	10				
2+20W	0.10	1.1	119	11				
2+40W	0.78	0.9	88	9				
2+60W	0.38	1.0	112	8				
2+80W	0.11	1.3	273	11				
3+00W	0.13	1.0	295	9				
3+20W	0.14	1.3	264	9				
3+60W	0.13	0.9	139	8				
3+80W	0.06	1.2	226	9				
4+00W	0.06	0.7	237	7				
20W	0.07	0.7	174	8				
40W	0.05	0.8	162	8				
60W	0.07	0.6	76	8				
80W	0.06	0.7	88	10				
LINE 1+50W 80W	0.05	0.9	75	12				
LINE 150W 3+00W	0.09	0.6	97	6				
LINE 150W - 1+00W	0.08	0.7	118	7				
1+20W	0.11	0.7	164	8				
1+40W	0.07	0.7	95	8				
1+60W	0.15	0.7	124	7				
1+80W	0.11	0.7	174	7				
2+20W	0.14	0.8	68	7				
2+40W	0.11	0.7	53	7				
2+60W	0.08	0.7	149	7				
2+80W	0.10	1.0	66	9				
3+20W	0.16	1.0	202	12				
3+60W	0.11	1.0	196	9				
3+80W	0.11	0.7	162	7				
4+20W	0.05	0.7	95	7				
4+40W	0.05	0.8	71	7				
4+60W	0.10	0.8	166	7				
4+80W	0.06	0.7	31	7				
5+00W	0.05	0.8	68	7				
5+20W	0.06	0.4	15	12				
5+40W	0.10	0.4	9	9				

/ Continued on page 6

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R. Nadeau
R. NADEAU, Chemist

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TO:
N.V.C. ENGINEERING LTD.

 (Continued) ... page 6

CERTIFICATE OF ASSAY

No.: **7909-1765** DATE: **Oct. 22/79**

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

MARKED	GOLD	SILVER	Copper	Lead	Zn	Pb	Cu	Fe
	µg(ppm)	Ag(ppm)	Cu(ppm)	Pb (ppm)				
LINE 150W - 5+60W	0.30	0.8	50	7				
5+80W	0.04	0.7	60	7				
6+00W	0.06	0.7	37	7				
6+20W	0.06	0.7	40	7				
6+40W	0.06	0.7	61	7				
6+60W	0.04	0.7	83	7				
6+80W	0.37	0.5	65	8				
7+00W	0.10	0.7	131	47				
7+20W	0.04	0.7	145	7				
7+40W	0.05	0.7	60	9				
7+60W	0.05	0.8	68	12				
7+80W	0.03	0.6	56	11				
20W	0.04	0.7	111	10				
40W	0.04	0.9	142	10				
60W	0.06	0.7	104	12				
80W	0.04	1.0	146	11				
LINE 200W 5+20W	0.05	0.7	96	7				
LINE 200W - 1+00W	0.04	0.9	101	11				
1+20W	0.02	0.7	151	7				
1+40W	0.03	0.4	65	6				
1+60W	0.03	0.5	121	6				
1+80W	0.03	0.6	58	7				
2+00W	0.02	0.8	69	9				
2+60W	0.02	0.8	136	7				
2+80W	0.03	0.7	83	7				
3+00W	0.03	0.8	66	6				
3+20W	0.04	0.7	38	6				
3+40W	0.03	0.3	35	4				
3+60W	0.04	0.3	59	5				
3+80W	0.04	0.8	98	42				
4+00W(A)	0.03	0.3	64	5				
4+00W(B)	0.03	0.9	57	14				
4+20W	0.03	0.7	31	6				
4+40W	0.15	0.4	144	7				
4+60W	0.04	0.4	46	5				
4+80(A)	0.04	0.4	62	4				
4+80(B)	0.05	0.9	146	9				

/ Continued on page 7

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TO: **B.V.C. ENGINEERING LTD.**

(Continued) page 7

CERTIFICATE OF ASSAY

No. **7909-1765** DATE: **Oct. 22/79**

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MARKED	GOLD		SILVER		Copper	Lead	III	III	III	III
	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)						
LINE 200N - 5+00W	0.04	0.4	65	7						
5+40W	0.04	0.4	53	5						
5+60W	0.04	0.7	70	11						
5+80W	0.09	0.3	4	21						
6+00W	0.04	0.5	20	5						
6+20W	0.05	0.5	11	9						
6+40W	0.03	0.5	65	5						
6+60W	0.01	0.3	53	6						
6+80W	0.06	0.3	35	6						
7+00W	0.01	0.3	40	6						
7+20W	0.04	0.5	103	6						
7+40W	0.03	0.6	80	6						
7+60W	0.03	0.5	33	13						
7+80W	0.03	0.7	62	7						
8+00W	0.04	0.5	56	11						
20+00W	0.04	0.6	154	7						
40+00W	0.03	0.3	76	7						
60+00W	0.03	0.3	110	7						
80+00W	0.04	0.3	65	6						
LINE 2+50N - 5+20W	0.05	0.7	152	15						
5+40W	0.05	0.7	91	21						
5+60W	0.27	0.3	76	6						
6+80W	0.08	0.3	27	7						
7+20W	0.13	0.3	8	6						
7+40W	0.04	0.7	51	7						
7+60W	0.09	0.6	33	7						
LINE 250N - 3+40W	0.05	0.7	117	9						
3+60W	0.05	0.5	26	11						
3+80W	0.06	1.0	201	108						
4+20W	0.05	0.6	126	9						
4+40W	0.06	0.6	91	9						
4+60W	0.06	0.5	55	9						
5+00W	0.05	0.7	142	9						
5+80W	0.08	0.9	172	7						

Continued on page 8

[Handwritten Signature]

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. MADRAU, Chemist

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(Continued) ... page 8

CERTIFICATE OF ASSAY

No.: **7909-1765** DATE: **Oct. 22/79**

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

MARKED	GOLD	SILVER	Copper	Lead	XXX	XXX	XXX	XXX
	Au(ppm)	Ag(ppm)	Cu(ppm)	Pb (ppm)				
LINE 250H - 6+00W	0.70	0.8	140	7				
6+40W	0.05	0.2	24	71				
6+60W	0.05	0.3	20	491				
7+80W	0.08	0.5	52	12				
8+00W	0.08	0.5	35	9				

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. Madrau
R. MADRAU, Chemist

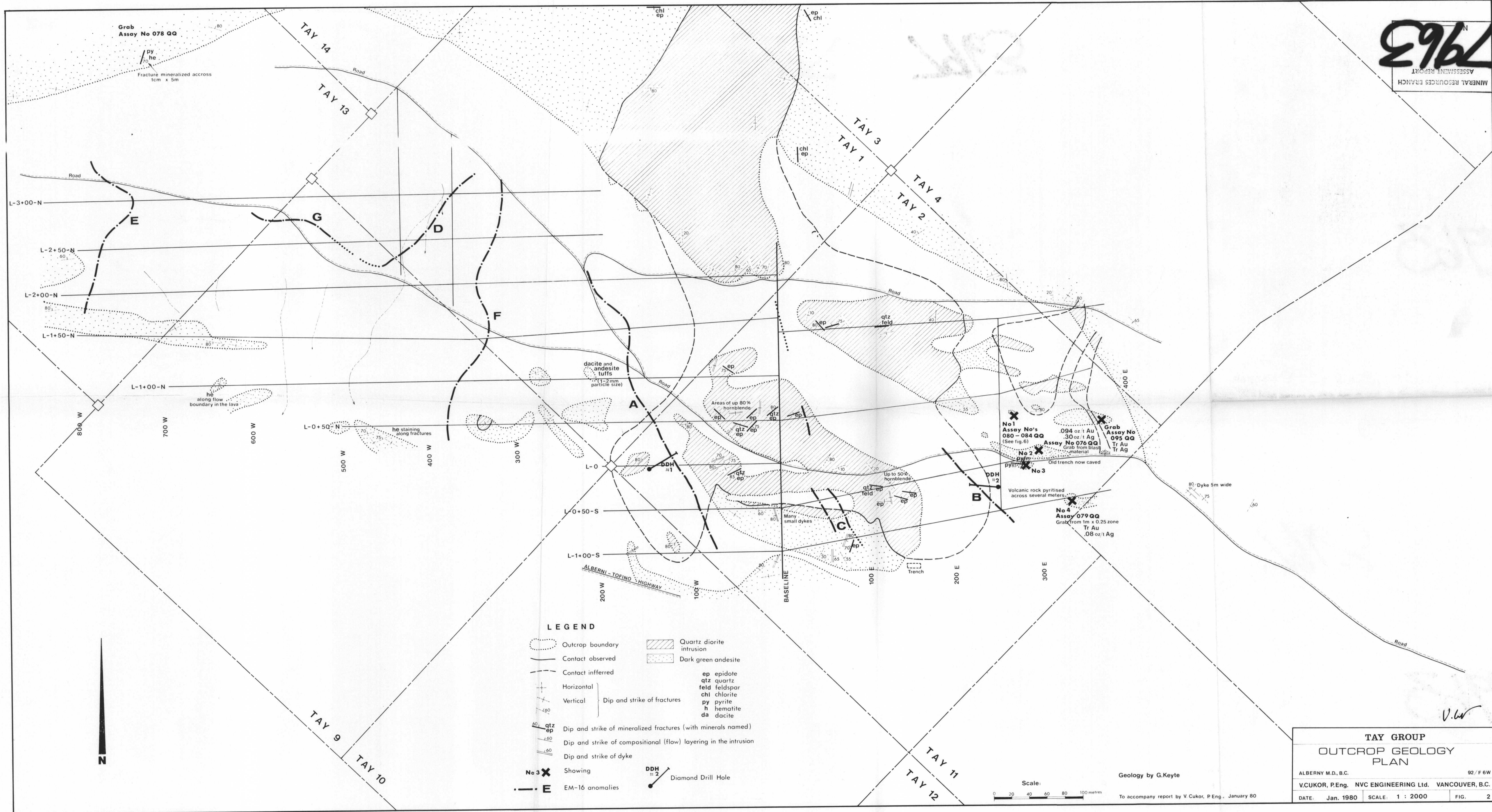
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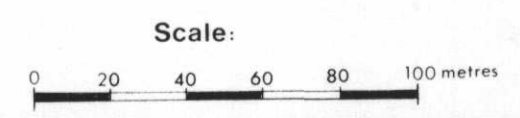
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7963
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT



LEGEND

- Outcrop boundary
- Contact observed
- Contact inferred
- Horizontal
- Vertical
- Dip and strike of mineralized fractures (with minerals named)
- Dip and strike of compositional (flow) layering in the intrusion
- Dip and strike of dyke
- Showing
- EM-16 anomalies
- Diamond Drill Hole
- Quartz diorite intrusion
- Dark green andesite
- epidote
- quartz
- feldspar
- chlorite
- pyrite
- hematite
- dacite



Geology by G. Keyte
To accompany report by V. Cukor, P. Eng., January 80

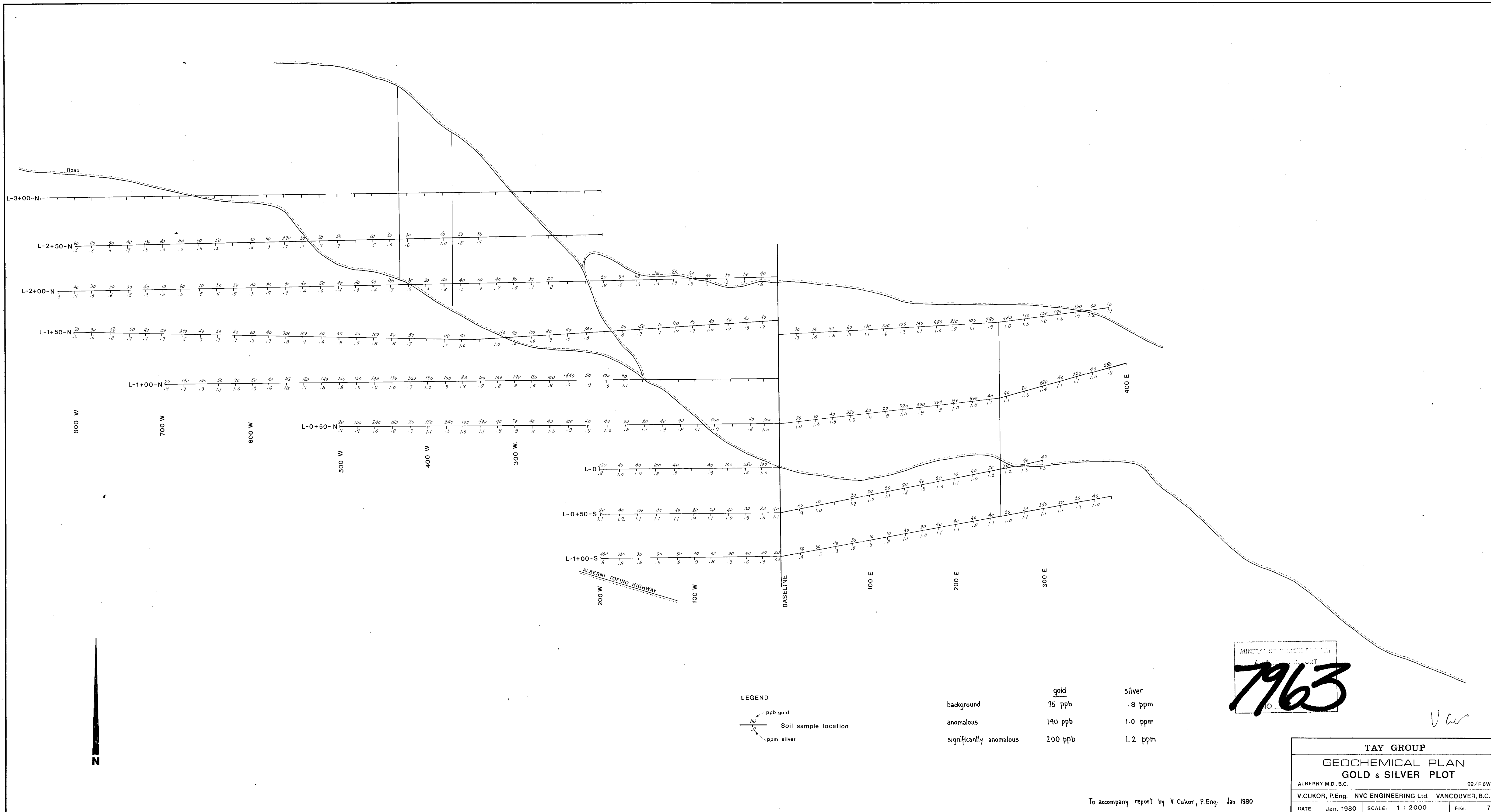
**TAY GROUP
OUTCROP GEOLOGY
PLAN**

ALBERNY M.D., B.C. 92/F 6W

V. CUKOR, P. Eng. NVC ENGINEERING Ltd. VANCOUVER, B.C.

DATE: Jan. 1980 SCALE: 1 : 2000 FIG. 2

V. Cukor



MINERAL RESOURCES ACT
 7963
 NO.

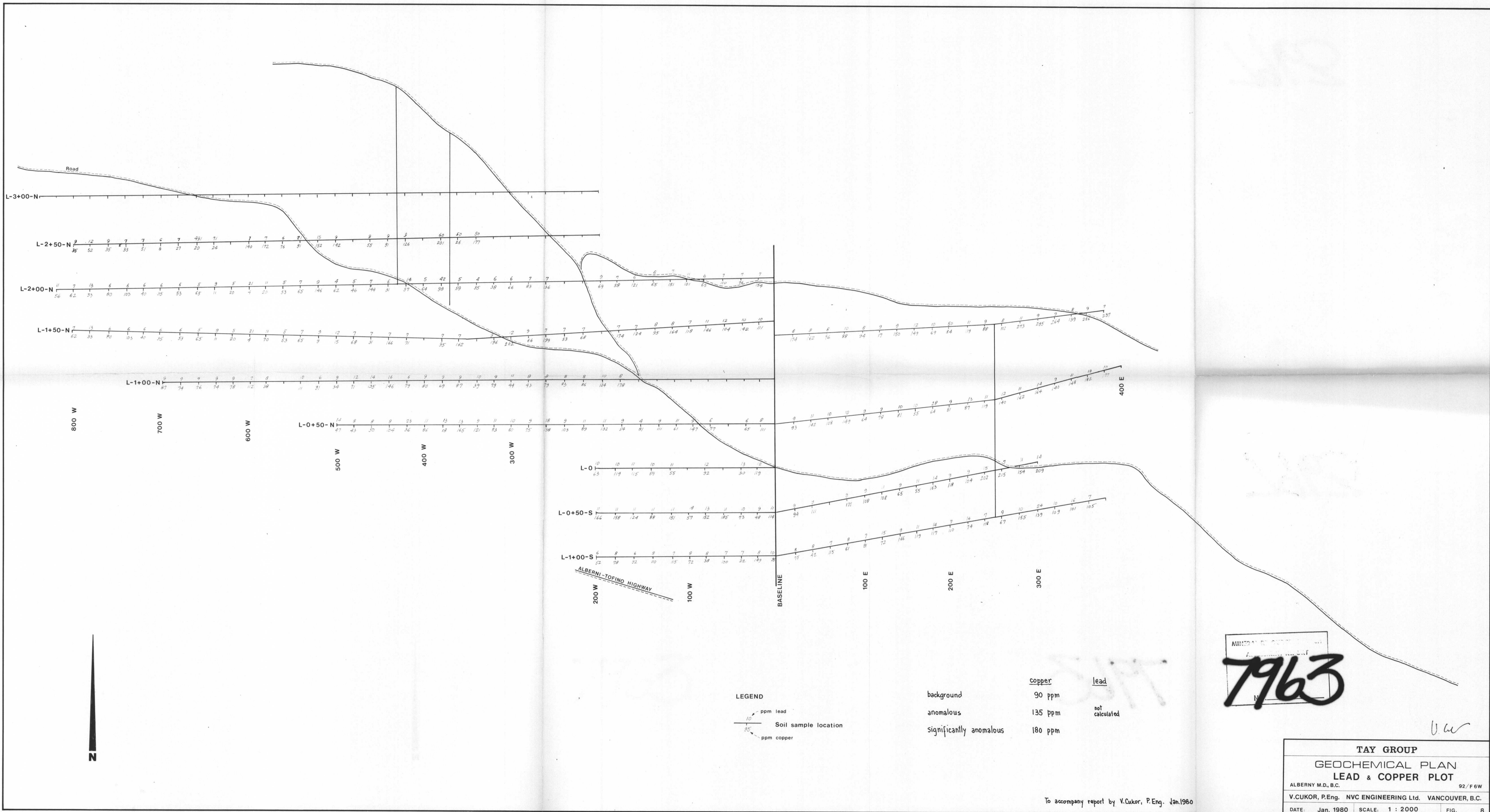
LEGEND

- ppb gold
- Soil sample location
- ppm silver

	gold	silver
background	75 ppb	.8 ppm
anomalous	140 ppb	1.0 ppm
significantly anomalous	200 ppb	1.2 ppm

TAY GROUP		
GEOCHEMICAL PLAN		
GOLD & SILVER PLOT		
ALBERNI M.D., B.C. 92/F 6W		
V. CUKOR, P.Eng. NVC ENGINEERING Ltd. VANCOUVER, B.C.		
DATE: Jan. 1980	SCALE: 1 : 2000	FIG. 7

To accompany report by V. Cukor, P.Eng. Jan. 1980



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LEGEND
 10 ppm lead
 Soil sample location
 35 ppm copper

background 90 ppm
 anomalous 135 ppm
 significantly anomalous 180 ppm

lead not calculated

TAY GROUP		
GEOCHEMICAL PLAN		
LEAD & COPPER PLOT		
ALBERNI M.D., B.C. 92/F6W		
V. CUKOR, P.Eng. NVC ENGINEERING Ltd. VANCOUVER, B.C.		
DATE: Jan. 1980	SCALE: 1 : 2000	FIG. 8

To accompany report by V. Cukor, P.Eng. Jan. 1980