

84-#374 - 12287
6/85

**VLADIMIR CUKOR
KLARA PROPERTY**

Nicola M.D. NTS 921/7E
Latitude 50°25'N Longitude 120°39'W

**REPORT ON
GROUND MAGNETIC SURVEY**

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,287

by

**D. Cukor
NVC ENGINEERING LTD.**

June, 1984
Vancouver, B.C.

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VLADIMIR CUKOR
KLARA PROPERTY
LOGAN LAKE, B.C. AREA

1. INTRODUCTION

During the period of August 16th to August 30th, 1983, a two-man crew prepared a grid and performed a ground magnetic survey on the Klara Claim. The crew consisted of D. Robinson, geology student (now graduated) and the author, geology student (now graduated), an experienced magnetometer operator. The work was performed on behalf of V. Cukor, and was financed by Promina Development Co. Ltd. of Vancouver, B.C., and is to be used as assessment work.

A total of 5.6 kilometres of grid lines were cut; the ground magnetic survey was performed over this grid as well as over a network of logging roads.

2. REVIEW

2.1 Summary and Conclusions

The whole of the Klara property is underlain by the Nicola Group; volcanics and conglomerate were noted during the very briefest of geologic inspections.

In 1972 Newco Venture Ltd. of Vancouver, B.,C. performed an extensive geochemical soil survey and several anomalous areas were encountered. As well, the 1967 airborne magnetic survey revealed a large magnetic low, roughly coincident with the position and the northwest/southeast trend of the geochemical soil anomalies. The Klara Claim covers a portion of this indicated structure.

As shown on Figure 3, there was a considerable amount of relief encountered on the ground magnetic survey. However, to interpret these results, detailed geological mapping should be performed.

2.2 Recommendations

Further exploration of the Klara Claim is fully warranted, and indeed essential for the interpretation of the results obtained in this survey. The next part of the exploration program should include geological mapping, and since the 1972 Newco grid has been completely lost, a geochemical soil survey should be conducted over the whole grid. Fill-in lines may have to be cut in areas outlined as anomalous by the ground magnetometer, and the magnetometer run over these new lines.

The recommended budget for such a program is estimated at \$25,000.

3. PROPERTY

3.1 Location

The Klara Claim is located 15 km southeast of the community of Logan Lake, B.C. and 2.5 km southwest of Desmond Lake. Through the northeast corner of the claim runs the clearing for the Kelly Lake-Nicola Transmission Line, under construction.

The claim is in the Nicola Mining Division, at NTS 92I/7E. It is centered at approximately north latitude $50^{\circ}25'$ and west longitude $120^{\circ}39'$ (see Figure 1).

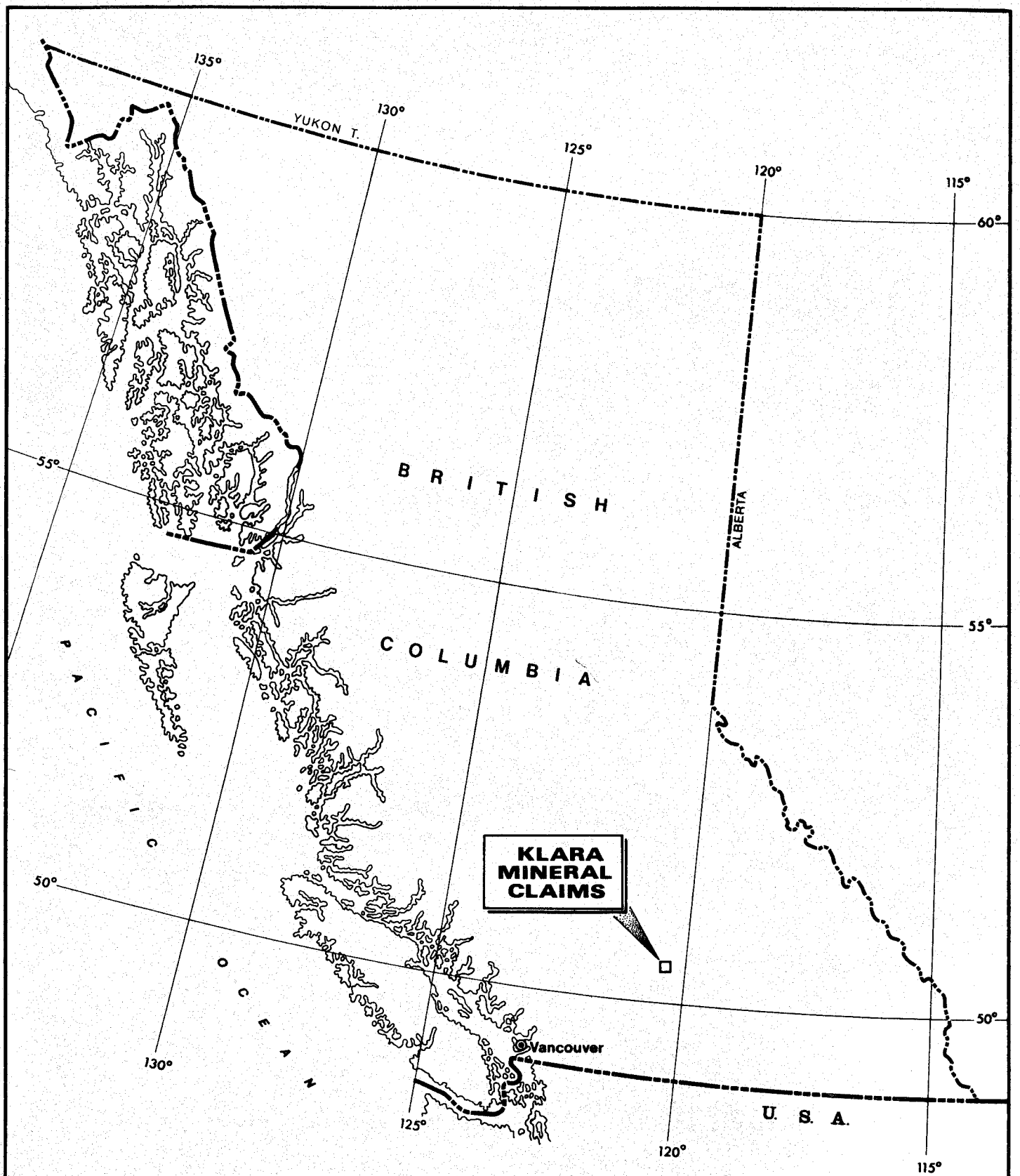
Road distances to Kamloops, Merritt and Vancouver are 37, 58 and 410 kilometres respectively.

The property is in the close vicinity of major copper mines. The mines of Lornex, Bethlehem Copper and Highmont Mines, as well as the Valley Copper ore body are only 20 to 25 kilometres west of the claim, and the Afton Mines ore body is about the same distance to the northeast.

3.2 Access

The property is accessible by the paved Meadow Creek Highway, connecting to Vancouver via the Merritt-Princeton, or via the Ashcroft-Fraser Canyon. A dirt road to the Surrey Lake Fishing Resort runs along the east edge of the claim, from which runs the powerline and road across the northeast corner of the property. A network of 4 x 4 roads previously used for logging gives good access throughout the claim.

The claim is 37 road kilometres distant from Kamloops, B.C. which has daily air connections to Vancouver.



KLARA PROPERTY		
KLARA MINERAL CLAIMS		
LOCATION MAP		
NICOLA M.D., B.C.	NTS 921/7E	
V. CUKOR, P.Eng. - NVC ENGINEERING Ltd. - VANCOUVER, B.C.		
DATE: MAY 1984	SCALE: 0 100 miles	FIG. 1

3.3 Claims

The Klara property consists of a single four-post mineral claim with record number and anniversary date as follows:

<u>Claim</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Anniversary Date</u>
Klara	20	1421	June 27th, 1984

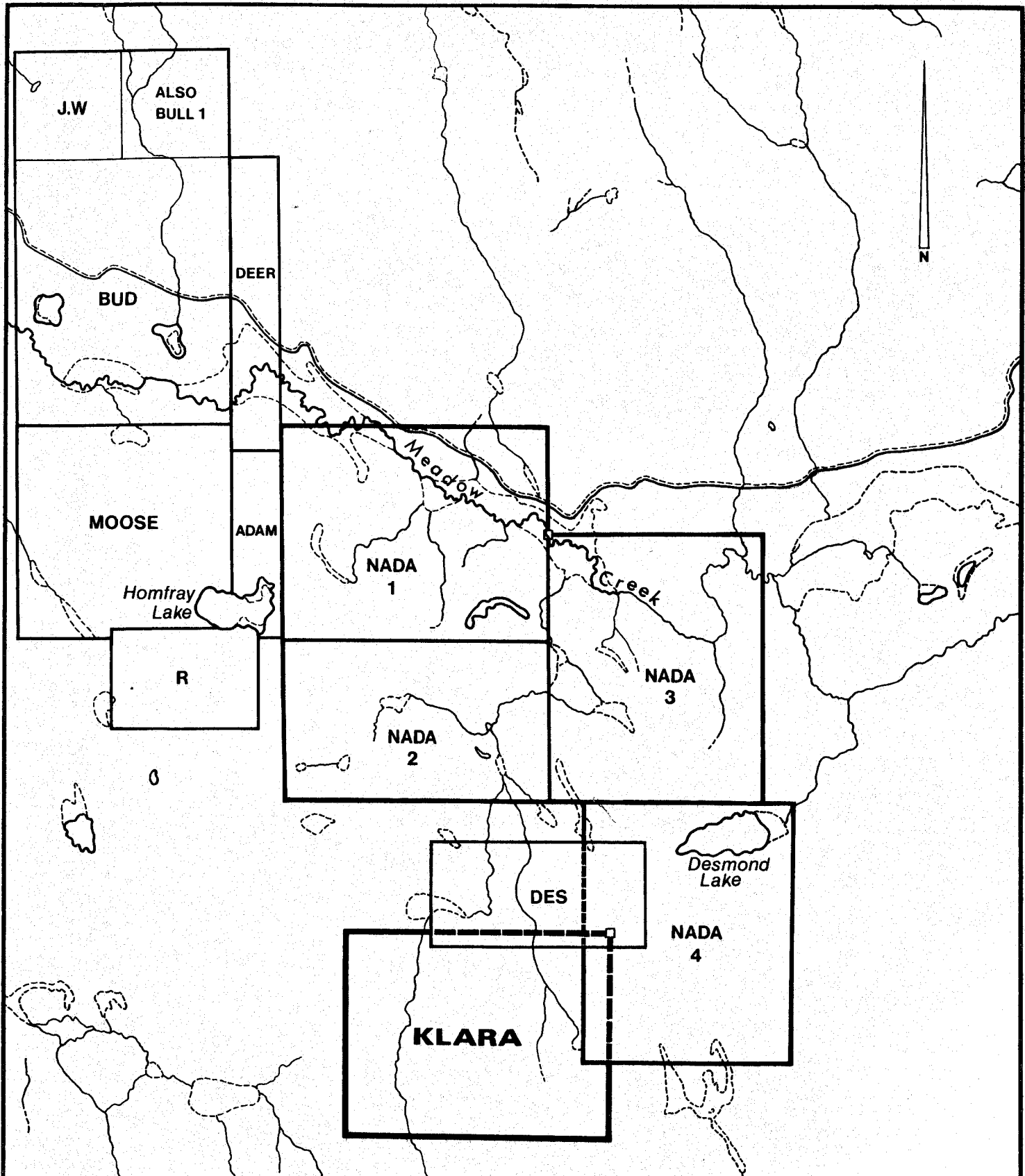
The claim was located on the modified grid system by Damir Cukor, as agent for Vladimir Cukor of Vancouver, B.C. and staking was done in accordance with the B.C. Mineral Act.

3.4 Topography and Climate

The property occupies an area characterized by gentle sloping hills with an altitude from 1300 to 1450 metres above sea level. Open meadows alternate with a dense forest of pine, fir and spruce, with very little or no underbrush. Creeks are often dammed by beavers and form ponds and marshes overgrown with willows and aspen.

The area has a continental climate characterized by cold winters and hot summers. The property is within the B.C. Dry Belt; atmospheric precipitation being extremely rare during summer months.

Good quality timber is available on the property, and except for the driest years, ample water for exploration should be found in several streams and ponds.



KLARA PROPERTY

**KLARA MINERAL CLAIMS
CLAIM MAP**

NICOLA M.D., B.C.

NTS 921/7E

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

DATE: MAY 1984

SCALE: 0 1 km

FIG. 2

4. GROUND MAGNETIC SURVEY

4.1 Field Procedure

As preparation for the survey, a grid was cut consisting of a 1300 metre long baseline and 11 lines, totalling 13.3 km. The baseline was surveyed along the cut line for the Kelly Lake-Nicola Transmission Line. As well, the network of logging roads on the property was surveyed, and both the grid and the roads were utilized for the ground magnetic survey, totalling 17.5 km. The readings were taken at 25 metre intervals by the author, D. Cukor, a geology student with several years experience in magnetic surveys.

The instrument used was a Geometrics Unimag Proton Magnetometer, Model 6-836 with a sensitivity of 10 gammas. The checkpoints for diurnal corrections were established by initially surveying the 1300 metre baseline. After correcting the readings, each station on the baseline is considered a base station for a corresponding crossline. During the survey, each crossline was tied to the base station at the start and completion of the loop.

4.2 Data Presentation

The instrument measures the Total Magnetic Field. After diurnal corrections were made all results were reduced by 57,000 gammas so 58,000 gammas of total field reads 1,000 gammas. These reduced values were then plotted on the 1:10,000 topographic plan (Figure 3).

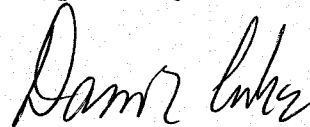
4.3 Discussion of Results

Magnetometer readings over the survey area range from 57,040 to 57,590 gammas of total magnetic field, showing a total magnetic relief of 550 gammas.

Within the grid, a definite northwest-southeast pattern was noted (see Figure 3). Since this is the first phase of the survey, and geological mapping is yet to be performed, it is impossible to draw any inferences to the data, except to note that the trend coincides with the aeromagnetic survey.

Geological mapping, and geochemical sampling will be necessary in the future programs.

Respectfully submitted,



D. Cukor, B.Sc.
NVC Engineering Ltd.

June 10, 1984

APPENDIX

**LIST OF EMPLOYEES AND COSTS INCURRED
DURING THE KLARA CLAIM GROUND MAGNETIC SURVEY**

LINECUTTING

August 16 to 26, 1983 inclusive

D. Cukor	10 days @ \$175	\$1,750.00
D. Robinson, helper		825.00
Food and lodging		795.49
Gas		261.72
Truck rental	10 days @ \$50	500.00

MAGNETOMETER SURVEY

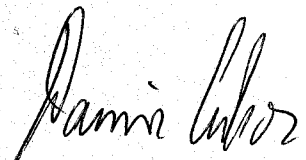
August 27 to 30, 1983 inclusive

D. Cukor	4 days @ \$175	700.00
Field expenses		278.00
Truck rental		200.00

REPORT

D. Cukor	5 days @ \$175	875.00
Drafting	10 hours @ \$20	200.00
Typing, printing, binding		150.00
		<u>\$6,545.21</u>

June, 1984

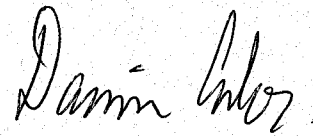


D. Cukor, B.Sc.
NVC Engineering Ltd.

CERTIFICATE

I, DAMIR CUKOR, of 2830 West 37th Avenue, Vancouver, British Columbia, state that:

1. I graduated from the University of British Columbia in 1984 as a Bachelor of Science in Geology;
2. I am employed by NVC Engineering Ltd.;
3. I was involved in various geological, geochemical and geophysical programs for the past eight summer seasons;
4. I participated in the field work and wrote this report.



D. Cukor, B.Sc.
NVC Engineering Ltd.


June, 1984

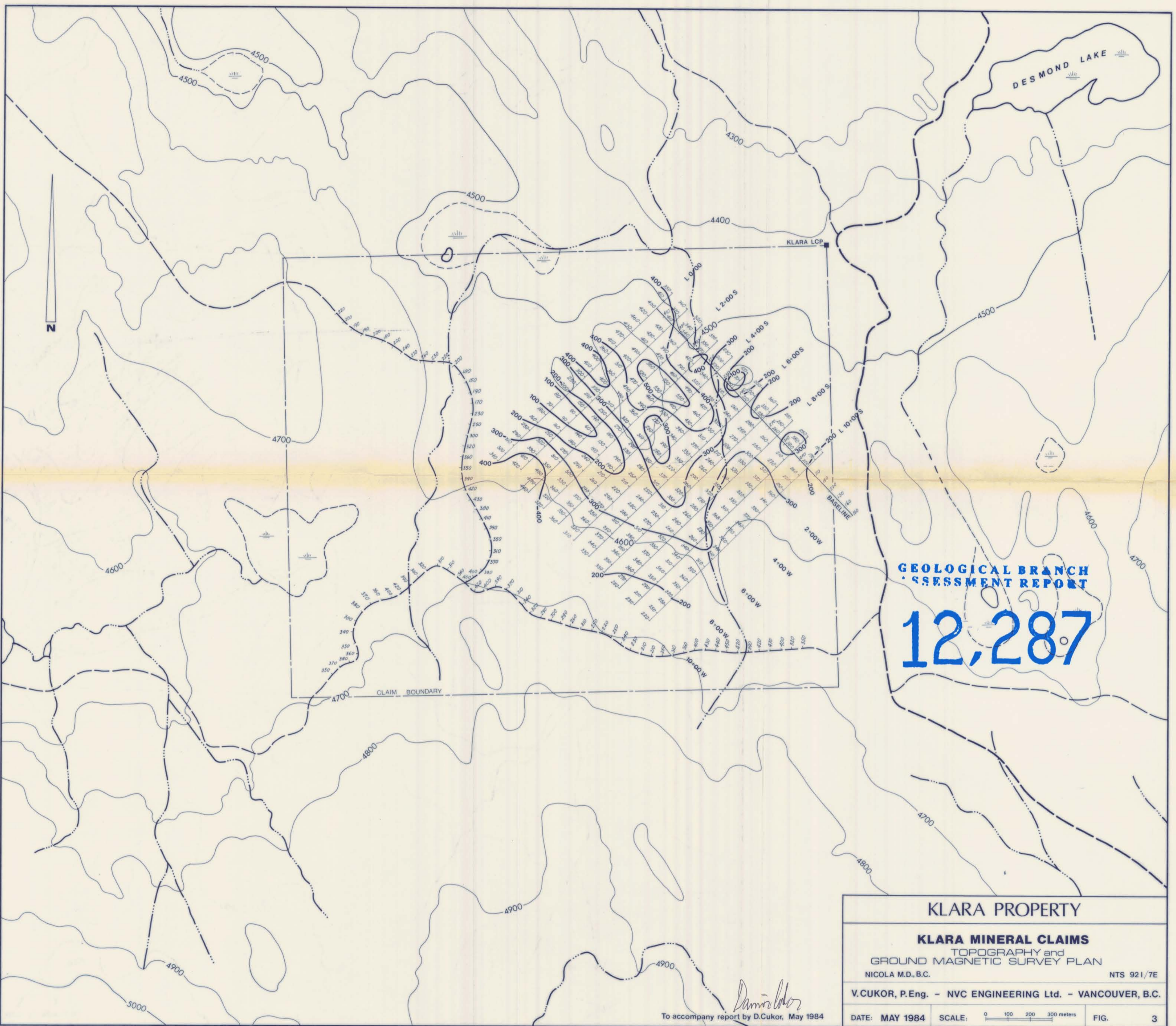
CERTIFICATE

I, VLADIMIR CUKOR, of 2830 West 37th Avenue, Vancouver, British Columbia, DO HEREBY CERTIFY that:

1. I am a Consulting Geological Engineer with NVC Engineering Ltd. and 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 practiced my profession as a Geological Engineer for the past twenty-one years in Europe and North America in engineering geology, hydro-geology and exploration for base metals and precious metals;
5. I have supervised the program described in this report.

June, 1984


V. Cukor, P.Eng.
NVC Engineering Ltd.



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,287

KLARA PROPERTY

KLARA MINERAL CLAIMS

TOPOGRAPHY and
GROUND MAGNETIC SURVEY PLAN

NICOLA M.D., B.C.

NTS 921/7E

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

DATE: MAY 1984

SCALE: 0 100 200 300 meters

FIG. 3

To accompany report by D. Cukor, May 1984

D. Cukor