

GEOCHEMICAL SAMPLING  
BARNATO PROPERTY  
GREENWOOD MINING DIVISION

Latitude: 49° 35'N  
Longitude: 118° 54'W  
NTS: 82E/7W

Owner/Operator: Camnor Resources Ltd.  
860 - 625 Howe St.  
Vancouver, B.C.  
V6C 2T6

Work Conducted: May 18 to May 20, 1993

Reported By: David A. Visagie, P.Geo

June 1993

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

CMB93-430

22,929

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### Distribution:

Camnor Resources - 1

Government - 2

## 1.0 INTRODUCTION

On May 20, 1993 a soil sample survey was completed on a portion of Camnor Resources Ltd.'s Barnato property. The purpose of the program was to attempt to locate auriferous zones by soil sampling. As a result a total of 45 soil samples were collected and sent for analysis.

## 2.0 LOCATION, ACCESS, AND PHYSIOGRAPHY

The Barnato claims, centred at latitude 49°35'N, longitude 118°45'W occur on NTS map sheet 82E7W. Access to the property is by logging roads from either the main Kettle Valley road to the east or from Beaverdell to the west. The property has been extensively logged resulting in a network of four wheel drive roads providing access to many of the showings (Figure 1).

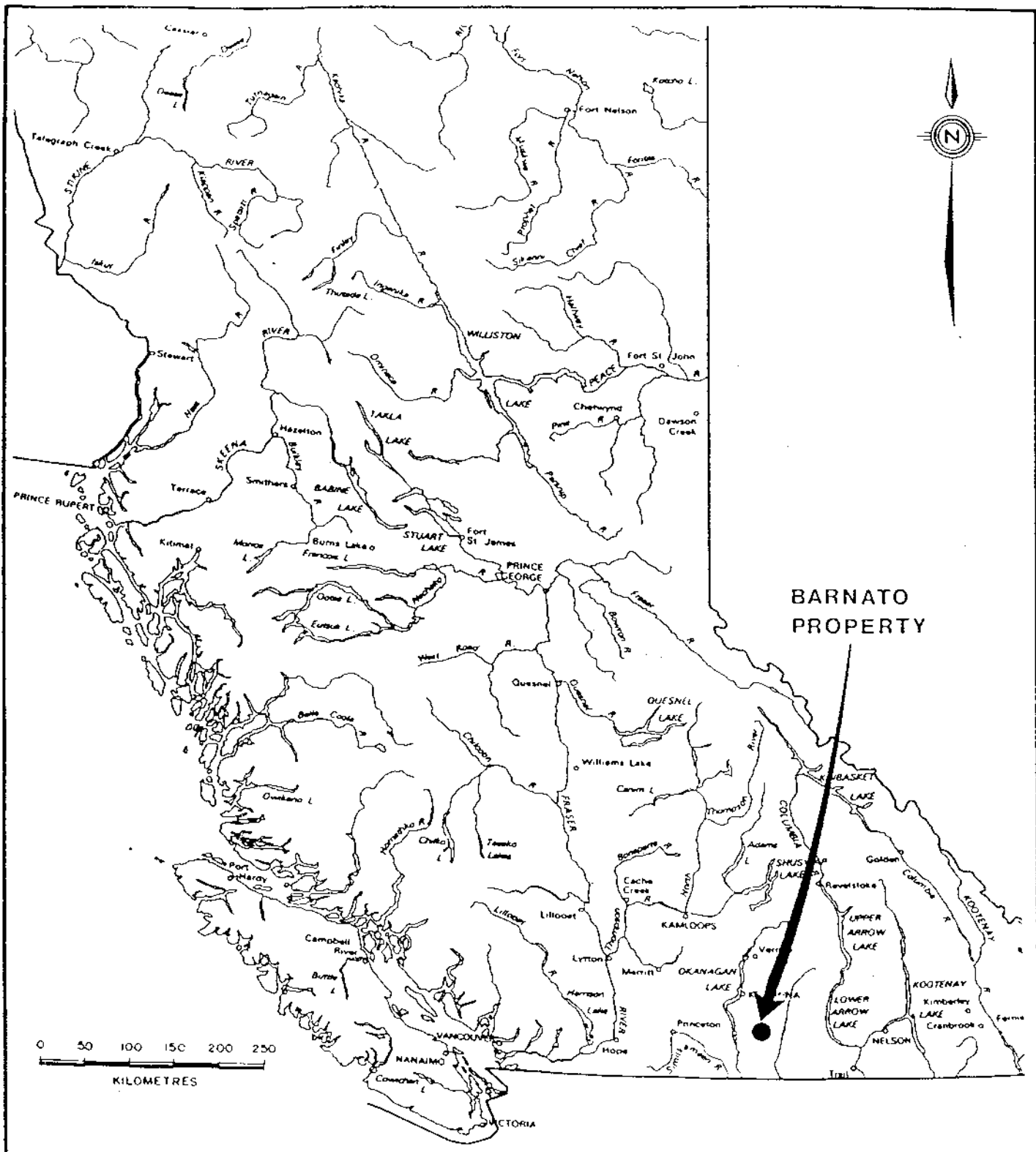
The claims straddle Lake Ridge which separates the Canyon Creek drainage system to the west from that of Crick Creek to the east. They occur primarily on east facing slopes and benches with elevations ranging from 880 to 1000 m.

Average annual precipitation consists of 24 cm of rain and 100 cm of snow, while the temperature averages 1°C in the winter and 15°C in the summer. The property is snow free from June to October.

## 3.0 PROPERTY DESCRIPTION

The property presently consists of the following:

<u>CLAIM</u>	<u>RECORD NO</u>	<u>UNITS</u>	<u>DUE DATE</u>
Barnato Fr.	214263	1	May 22, 1995
Hackla	214264	1	May 22, 1995
Yorkshire Lass	214270	1	May 22, 1995
Barnato	214272	1	May 22, 1996
Kaffir King	214274	1	May 22, 1995
Kingston Fr.	214341	1	Oct. 22, 1993
North Star	214342	1	Oct. 22, 1993
Caledonia	214343	1	Oct. 22, 1993
Houston	214344	1	Oct. 22, 1993
Boston	214347	1	Oct. 22, 1993
Ivanhoe	214348	1	Oct. 22, 1993
Mona	214349	1	Oct. 22, 1993
Kingston	214350	1	Oct. 22, 1995
Mexico	214351	1	Oct. 22, 1993



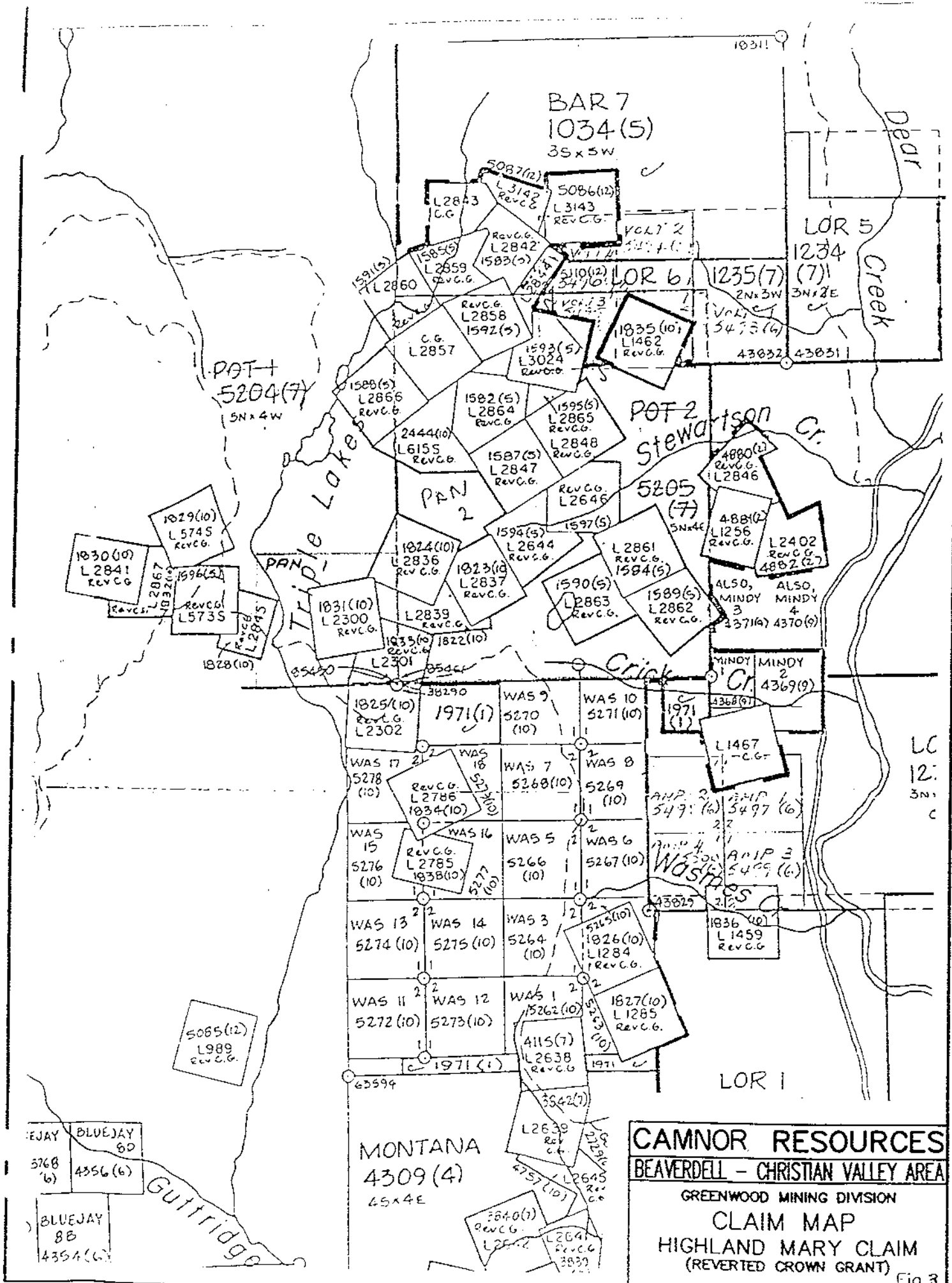
BARNATO PROPERTY

CAMNOR RESOURCES LTD.

LOCATION MAP

MINING DIVISION : Greenwood

FIGURE : 1



**CAMNOR RESOURCES**  
**BEAVERDELL - CHRISTIAN VALLEY AREA**  
 GREENWOOD MINING DIVISION  
 CLAIM MAP  
 HIGHLAND MARY CLAIM  
 (REVERTED CROWN GRANT) Fig. 3

## Claim List Continued:

<u>CLAIM</u>	<u>RECORD NO</u>	<u>UNITS</u>	<u>DUE DATE</u>
Boston	214352	1	Oct. 22, 1995
Highland Mary	214354	1	Oct. 22, 1995
Coin Fr.	214506	1	Oct. 27, 1993
Pan 1	215382	4	July 17, 1993
Pan 2	215383	20	July 18, 1993

Camnor Resources Ltd. holds a 100% interest in the property and is the operator (Figure 3).

#### 4.0 PROPERTY HISTORY

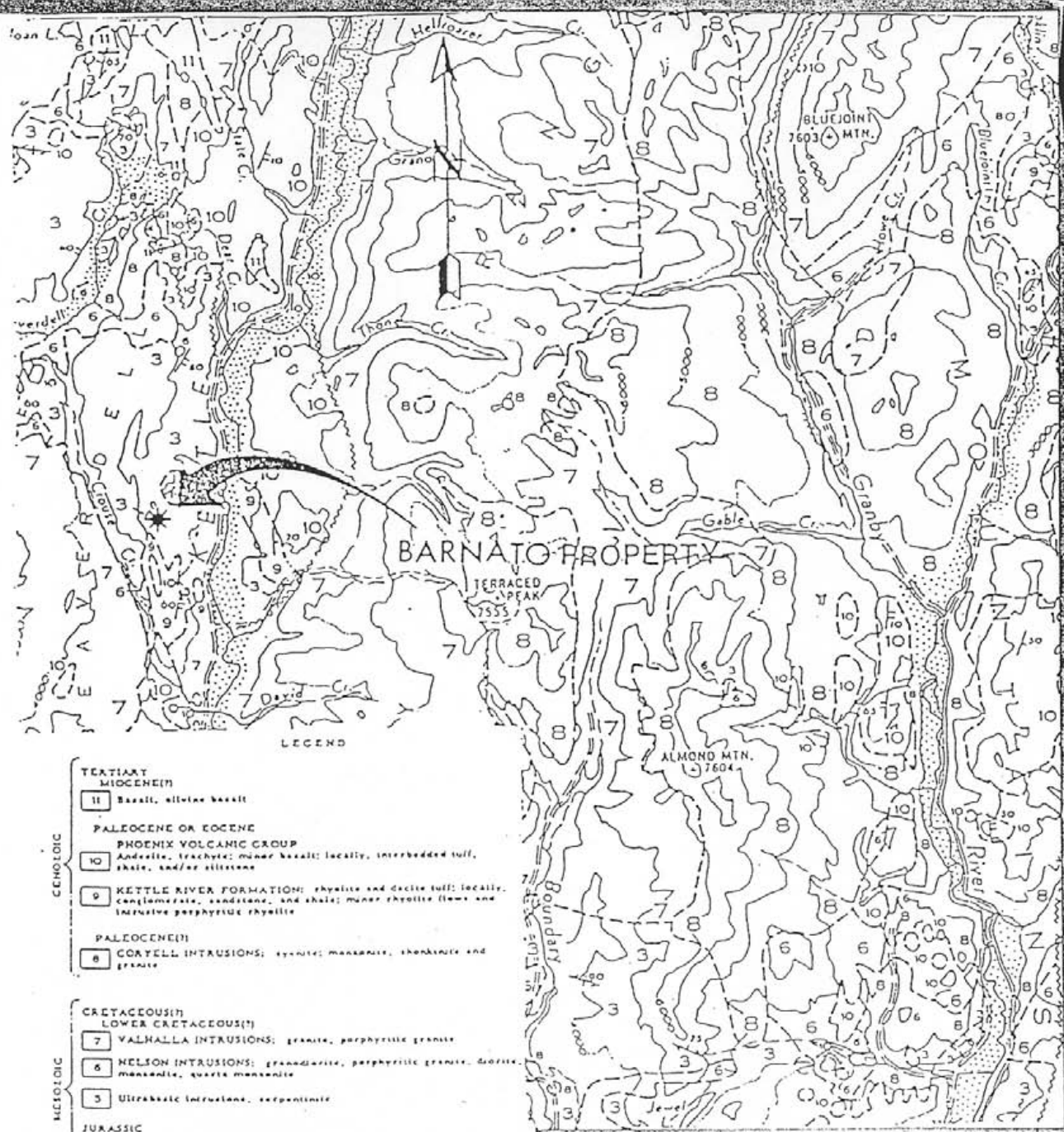
The Barnato property has been sporadically worked on for over a century with many of the claims being originally staked prior to 1878. Surface programs consisting of prospecting and trenching led to the discovery of gold in 1896. In 1938 subsequent development, centred on the Barnato crown grant, resulted in the shipping of two cars of hand sorted ore totalling 84.9 tons to Tacoma, Washington for smelting. The ore averaged 1.58 opt Au, 0.23 opt Ag and 10.17% As.

In 1938, Cominco optioned the property and completed an exploration program consisting of mapping, prospecting, test pitting and drilling. The results showed the veins in the vicinity of the main Barnato workings to diminish in thickness and grade with depth and to be erratic along strike.

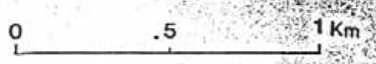
During 1965 and 1966, Amcana Gold Mines conducted a program of road building, claim surveying, trenching and diamond drilling (four short holes). The work was again concentrated in the vicinity of the Barnato main workings.

In 1977, Camnor Resources Ltd. acquired the property from G. Bleiler. Since then it has completed several programs consisting of ground and air geophysics, soil and rock chip sampling, mapping, trenching, prospecting and limited diamond drilling (5 NQ holes totalling 302.9 m).

Golden Seal Resources optioned the property in 1986 and completed a small percussion drill program totalling 202.4 m in four holes. Due to negative results Golden Seal terminated the option. Since then limited soil and rock chip sampling and mapping programs have been completed by Camnor Resources Ltd.



- LEGEND**
- TEATIAAY MIOCENE(?)**
    - 11 Basalt, siliceous basalt
  - PALEOCENE OR EOCENE**
    - PHOENIX VOLCANIC GROUP**
      - 10 Andesite, trachyte; minor basalt; locally, interbedded tuff, shale, and/or siltstone
      - 9 KETTLE RIVER FORMATION: rhyolite and dacite tuff; locally, conglomerate, sandstone, and shale; minor rhyolite flows and intrusive porphyritic rhyolite
    - PALEOCENE(?)**
      - 8 COYELL INTRUSIONS: dykes; monzonite, shonkinite and granite
  - MESOZOIC**
    - CRETACEOUS(?)**
      - LOWER CRETACEOUS(?)**
        - 7 VALHALLA INTRUSIONS: granite, porphyritic granite
        - 6 NELSON INTRUSIONS: granodiorite, porphyritic granite, diorite, monzonite, quartz monzonite
        - 5 Ultrabasic intrusions, serpentinite
      - JURASSIC**
        - 4 ROSSLAND GROUP: Andesite, tuff, agglomerate and flow breccia; minor gneisses
    - PALEOZOIC**
      - PERMIAN(?)**
        - 3 ANARCHIST GROUP: Greenstone, gneiss, limestone, paragneiss
      - PENNSYLVANIAN AND/OR PERMIAN**
        - 2 MOUNT ROBERTS FORMATION: graywacke, greenstone, limestone, paragneiss
    - PROTEROZOIC (?)**
      - 1 MONASHEE AND GRAND FORKS GROUPS: Paragneiss; minor crystalline limestone and gneiss



**CAMNOR RESOURCES**  
**BEAVERDEELL - CHRISTIAN VALLEY AREA**  
 GREENWOOD MINING DIVISION  
**REGIONAL GEOLOGY**

Fig. 7

## 5.0 PROPERTY GEOLOGY

The Barnato property is primarily underlain by Late Paleozoic to Early Mesozoic andesitic volcanic and volcanoclastic rocks of the Wallace (Anarchist) Formation. These rocks locally consist of metamorphosed andesitic tuffs and flows, chert and volcanic derived sedimentary rocks. The Wallace Formation is in turn intruded by quartz diorite plugs and dykes associated with the West Kettle Pluton. The volcanic rocks trend approximately north-northwest.

Bedrock exposure on the claim is in excess of 15%. Trenching and pitting is widespread throughout the property. Mapping has shown two dominant rock types to exist on the property:

Quartz Diorite - Granodiorite - medium coarse grained, and in part porphyritic with variable mafic content.

Andesite - fine grained, in part foliated. Variably silicified.

Limestone has been observed to be interbedded within the andesites. Porphyritic dykes are observed to cross-cut all the units.

The andesitic rocks are generally intensely hornfelsed along the contact with the intrusive plugs.

Mineralization consisting of pyrite, pyrrhotite, minor magnetite, arsenopyrite and chalcopyrite with some gold, occurs in quartz veins, fracture fillings, and as disseminations within both quartz diorite and the andesitic volcanics. The mineralization appears to be in part localized along the contact between the intrusive and host rocks.

Additional information on the regional geology is provided by GSC Memoir 79 (Reincake 1910, 1915 and Geological Series and Geology No. 65 (Little, 1953, 1956).

## 6.0 1993 WORK PROGRAM

The purpose of Camnor's work program was to attempt to locate auriferous zones by soil sampling using the existing road system. As a result 45 soil samples were collected and sent for analysis. A total of 2 man-days of labour and 1 man-day of transportation time were required to complete the program.

## 7.0 GEOCHEMISTRY

Soil samples were collected at 50 metre intervals along one of the roads located on the property. The samples were collected from the "B" horizon using a mattock, stored in kraft sample bags, identified and dried then sent for analysis. In general the "B" horizon occurs at a depth of 20-40 cm. All of the samples were sent to Vangeochem Labs to be prepped and geochemically sampled for gold. In addition 30 element Inductively Coupled Plasma (ICP) analysis was completed on all of the samples.



The following is an outline of the procedure used for the preparation and analysis of the samples:

### 7.1 Results

The soil sample locations and results for gold are plotted on figure 4 while the assay results are located in Appendix 1. The results of the soil sample survey are largely negative with no significant zones of precious or base metals being identified.

## 8.0 SUMMARY AND CONCLUSIONS

One day was spent by a two man crew completing a limited soil sample survey on a portion of the Barnato property. Previous exploration has shown the property to be underlain by Late Paleozoic to Early Mesozoic volcanic flows, tuffs and volcanic derived sediments that have been intruded by quartz diorite to granodiorite plugs and dykes. Mineralization consisting of trace to massive pyrite, pyrrhotite and arsenopyrite occurs within both the volcanics and intrusives as fracture fillings, disseminations and quartz veins generally in close proximity to the volcanic-sedimentary contact. Previous soils sampling programs have shown areas of gold mineralization to be associated with anomalous soil values. The results of the 1993 soil survey are largely negative with no significant zones of precious or base metal deposition being outlined. As a result it is concluded that the sampled area is largely barren.

## 9.0 RECOMMENDATIONS

It is recommended that no further work be completed in the sampled area.

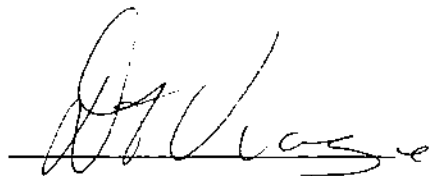


## 11.0 STATEMENT OF QUALIFICATIONS

I, D.A. Visagie of 860 - 625 Howe Street, Vancouver, British Columbia, do hereby declare that:

1. I graduated from the University of British Columbia with a Bachelor of Science Degree, majoring in Geology, in 1976.
2. I am a registered member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
3. I have been steadily employed in the mining industry since 1976 and have been employed by International Northair Mines Ltd. as Senior Geologist since January 1990.
4. The work undertaken on the Barnato group was under my supervision.

Dated at Vancouver, British Columbia, this 15th day of June, 1993.

A handwritten signature in black ink, appearing to read 'D.A. Visagie', written over a horizontal line.

David A. Visagie, P.Geo.

APPENDIX 1  
ASSAY CERTIFICATES

REPORT NUMBER: 930042 GA

JOB NUMBER: 930042

NEHBANK GOLD MINES LTD.

PAGE 1 OF 2

SAMPLE #	Au
	ppb
B-HOR 0+00E (BASE)	5
B-HOR 0+50E	10
B-HOR 1+00E	10
B-HOR 1+50E	20
B-HOR 2+00E	45
B-HOR 2+50E	5
B-HOR 3+00E	5
B-HOR 3+50E	20
B-HOR 4+00E	nd
B-HOR 4+50E	nd
B-HOR 5+00E	10
B-HOR 5+50E	10
B-HOR 6+00E	nd
B-HOR 6+50E	nd
B-HOR 7+00E	nd
B-HOR 7+50E	10
B-HOR 8+00E	5
B-HOR 8+50E	nd
B-HOR 9+00E	10
B-HOR 9+50E	10
B-HOR 10+00E	10
B-HOR 10+50E	nd
B-HOR 11+00E	5
B-HOR 11+50E	5
B-HOR 12+00E	30
B-HOR 12+50E	5
B-HOR 13+00E	20
B-HOR 13+50E	5
B-HOR 14+00E	30
B-HOR 14+50E	20
B-HOR 15+00E	15
B-HOR 15+50E	10
B-HOR 16+00E	30
B-HOR 0+00S	nd
B-HOR 0+50S	5
B-HOR 1+00S	30
B-HOR 1+50S	20
B-HOR 2+00S	60
B-HOR 2+50S	20

DETECTION LIMIT 5

nd = none detected

-- = not analysed

is = insufficient sample

REPORT NUMBER: 930042 GA

JOB NUMBER: 930042

**NEVRANK GOLD MINES LTD.**

PAGE 2 OF 2

SAMPLE #	Au ppb
B-HOR 3+00S	40
B-HOR 3+50S	20
B-HOR 4+00S	20
B-HOR 4+50S	20
B-HOR 5+00S	35
B-HOR 5+50S	70
B-HOR 5+80S	30

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCL to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *[Signature]*

REPORT #: 930042 PA

NEWHAWK GOLD MINES LTD.

PROJECT: None Given

DATE IN: MAY 28 1993

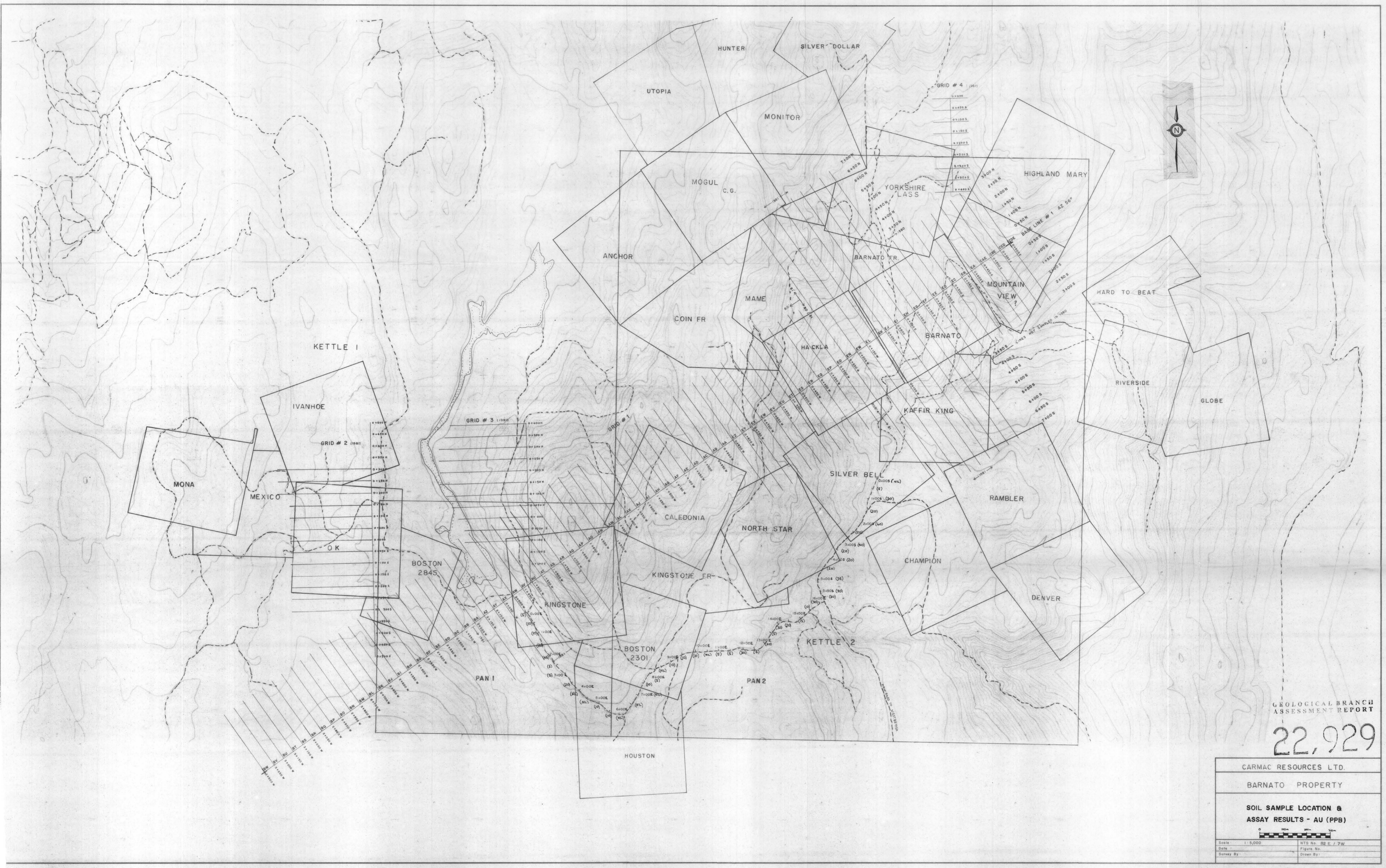
DATE OUT: JUNE 1 1993

ATTENTION: MR. DAVE VISAGIE

PAGE 2 OF 2

Sample Name	Ag ppm	Al %	As ppm	*Au ppb	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm		
B-HDR 3+00S	0.1	1.72	11	40	84	<3	0.25	<0.1	12	20	24	2.54	0.03	0.35	521	9	<0.01	8	0.11	<2	<2	<2	33	<5	<3	71		
B-HDR 3+50S	0.3	2.31	<3	20	211	<3	0.26	<0.1	14	18	39	2.98	<0.01	0.43	317	14	0.02	15	0.05	<2	<2	<2	45	<5	<3	89		
B-HDR 4+00S	0.2	2.20	<3	20	149	<3	0.25	<0.1	11	14	17	2.26	0.07	0.27	480	12	0.01	7	0.07	<2	<2	<2	25	<5	<3	71		
B-HDR 4+50S	0.2	1.37	<3	20	51	<3	0.25	<0.1	13	22	30	3.02	<0.01	0.46	448	7	<0.01	10	0.04	<2	<2	<2	28	<5	<3	76		
B-HDR 5+00S	0.2	1.52	7	35	63	<3	0.38	<0.1	18	27	85	4.69	<0.01	0.61	553	11	<0.01	21	0.06	10	<2	<2	43	<5	<3	64		
B-HDR 5+50S	0.1	2.53	119	70	77	<3	0.18	<0.1	16	22	54	3.68	<0.01	0.46	367	13	0.01	16	0.11	<2	<2	<2	26	<5	<3	69		
B-HDR 5+80S	0.2	1.60	<3	30	79	<3	0.80	<0.1	16	31	46	3.12	<0.01	0.47	809	9	0.01	15	0.11	<2	<2	<2	54	<5	<3	64		
Minimum Detection	0.1	0.01	3	5	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1		
Maximum Detection	50.0	10.00	2000	10000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000		
< - Less Than Minimum	> - Greater Than Maximum is - Insufficient Sample ns - No Sample *Au Analysis Done By Aqua Regia Digestion / Solvent Extraction / AAS.																											





GEOLOGICAL BRANCH  
ASSESSMENT REPORT

22,929

CARMAC RESOURCES LTD.	
BARNATO PROPERTY	
SOIL SAMPLE LOCATION & ASSAY RESULTS - AU (PPB)	
Scale: 1:5,000	NTS No. B2 E / 7W
Date:	Figure No.:
Survey By:	Drawn By: