

## Summary Report

- on the -

Dor Claims

Cariboo Mining Division, British Columbia

N.T.S. 93A/7W

- for -

Eureka Resources Ltd.

837 East Cordova Street

Vancouver, B. C.

Prepared by:

G. Belik &amp; Associates Ltd.

664 Sunvalley Drive

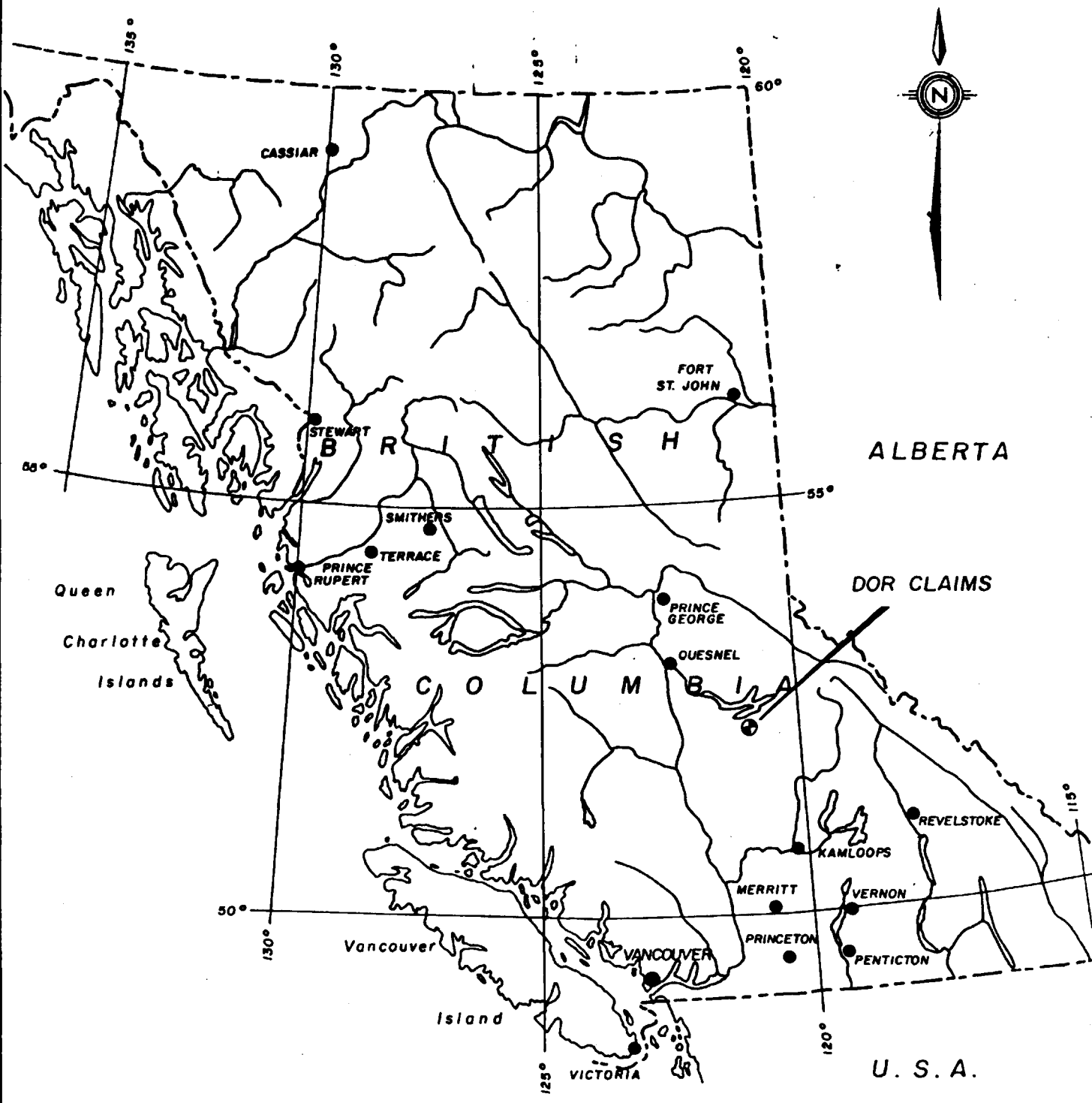
Kamloops, B. C. V2B 6S4

Gary D. Belik, M. Sc.

January 16, 1984

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EUREKA RESOURCES INC.	
LOCATION MAP	
DOR CLAIMS	
CARIBOO MINING DIVISION, B.C.	
Technical Work by: Kerr, Dawson & Assoc. Ltd.	Date : Jan., 1984.
Scale : 1cm. = 87 km.	Dwg No. 238-1

## Summary

The Dor Property, consisting of two claims, each 20 units in size, is situated about 35 km east of the settlement of Horsefly, B. C., in the Cariboo Mining Division.

The claim area is underlain by a sequence of volcanic and sedimentary rocks of Upper Triassic to Lower Jurassic age. Near the center of the Dor 1 claim these strata are intruded by a small quartz diorite stock. Zones of pyritic hornfels occur peripheral to the stock.

A preliminary, reconnaissance-style soil sampling program was carried out over most of the claim area in 1981. This work defined several areas containing moderately anomalous copper and gold. Follow up sampling in 1983 lead to the discovery of a moderate to strong gold soil anomaly along the southern boundary of the Dor 2 claim. This anomaly, which is up to 120 meters wide, was traced in a general east-west direction over a continuous strike length exceeding 900 meters.

A VLF-Electromagnetic survey carried out over the eastern part of the soil anomaly defined a probable bed-rock conductor along the north, upslope, edge of the

anomaly. Along the northeastern edge of the soil anomaly, in close proximity to the bedrock conductor, a well-indurated, ferricrete\* unit was noted. A bulldozer cut through this unit revealed some fragments and blocks of siliceous, semimassive to massive sulphide (pyrite, pyrrhotite, chalcopyrite). Assays of ferricrete and sulphide clasts indicate a gold content ranging from .022 - 0.155 oz/ton.

The coincident soil anomaly and bedrock conductor directly related to an indicated source of massive sulphides provides a viable geological model for an economic gold deposit. Trenching and diamond drilling are recommended as the next phase of exploration.

\*Material referred to as ferricrete in this report resembles a mixture of soil and fine talus, cemented by limonite. The unit is believed to be surficial and preglacial in origin.

### Introduction

The Dor claims, owned by Eureka Resources Ltd., were staked in 1981 in order to cover areas of pyrite and chalcopyrite mineralization noted in the annual Minister of Mines report for 1974 (GEM, 1974, P. 239). A preliminary, reconnaissance-style, soil sampling program was carried out over most of the claim area in 1981. A follow-up program, consisting of geological mapping, detailed soil and rock geochemistry, a VLF-EM survey and road building was carried out during the period July 1 - October 31, 1983. Both programs were supervised by Kerr, Dawson and Associates Ltd., #206-310 Nicola Street, Kamloops, B. C.

This report, which has been prepared at the request of Mr. John Kerr, a Director of Eureka Resources, describes the general setting of the property, discusses the results of the exploration work carried out to date and provides guidelines and recommendations for further work. The report is based on a thorough review of all available exploration data, reports and maps and on my examination of the property on October 23, 1983.

### Location and Accessibility

The Dor claims are situated about 85 km east-northeast of Williams Lake in the Cariboo Mining Division, B. C. (N.T.S. 93A/7W). The Dor 1 claim straddles Doreen Lake, which is situated about 2.5 km north of McKinley Lake. Dor 2 adjoins Dor 1 to the northeast.

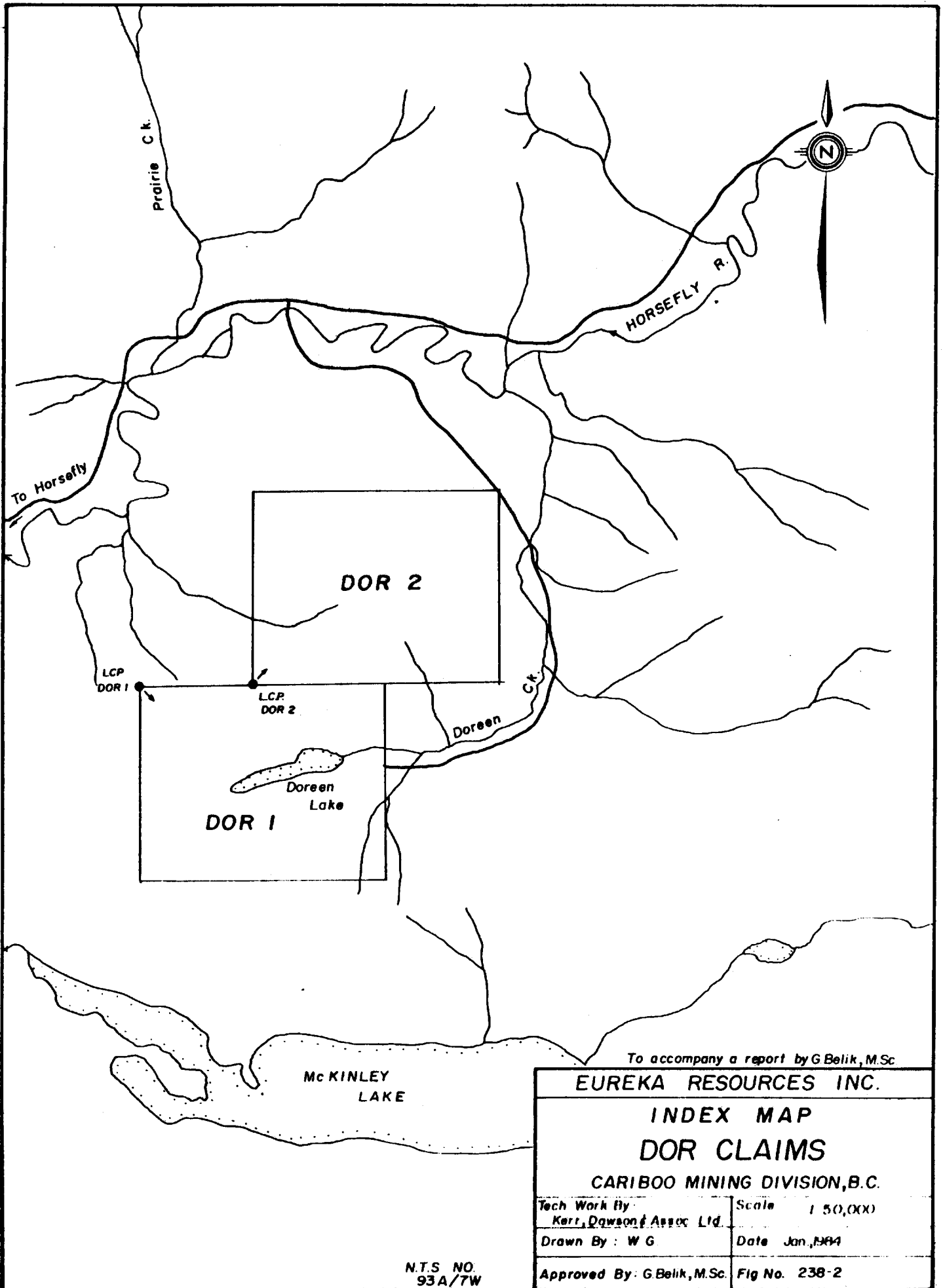
An old logging road which extends easterly from McKinley Creek to Doreen Lake provides access to the property. Alternate road access is available via a recent logging road which extends up the Doreen Creek Valley from the Horsefly River road.

### Claims

The property described in this report is comprised of 2 contiguous claims totalling 40 units as detailed below:

<u>Mining Division</u>	<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>
Cariboo	Dor 1	20	3261	Mar. 27, 1981
Cariboo	Dor 2	20	4091	Oct. 15, 1981

The registered owner of these claims is Eureka Resources Ltd., 837 East Cordova Street, Vancouver, B. C.



To accompany a report by G Belik, M.Sc

**EUREKA RESOURCES INC.**

**INDEX MAP**

**DOR CLAIMS**

**CARIBOO MINING DIVISION, B.C.**

Tech Work By:  
Kerr, Dawson & Assoc Ltd.

Scale 1:50,000

Drawn By: W G

Date Jan, 1984

Approved By: G Belik, M.Sc

Fig No. 238-2

N.T.S NO.  
93A/TW



## Physiography and Vegetation

The Dor claims occur within the transition from rolling upland terrain of the Interior Plateau, to the southwest and the rugged Cariboo Mountains to the northeast. In general, the area is characterized by numerous lakes and streams and by mountains of moderate relief.

Elevation of the claim area ranges from about 950 meters a.s.l. to about 1550 meters a.s.l. Doreen Lake is situated near the center of the Dor 1 claim and is drained by Doreen Creek, a northerly flowing tributary of the Horsefly River. Small, unnamed mountains occur immediately south and near the central part of the claim area.

Vegetation over the southern and eastern parts of the property consists of good commercial stands of cedar, spruce and balsam. The remainder of the claim area is covered by a large burn with light to moderate second growth.

## Previous Exploration

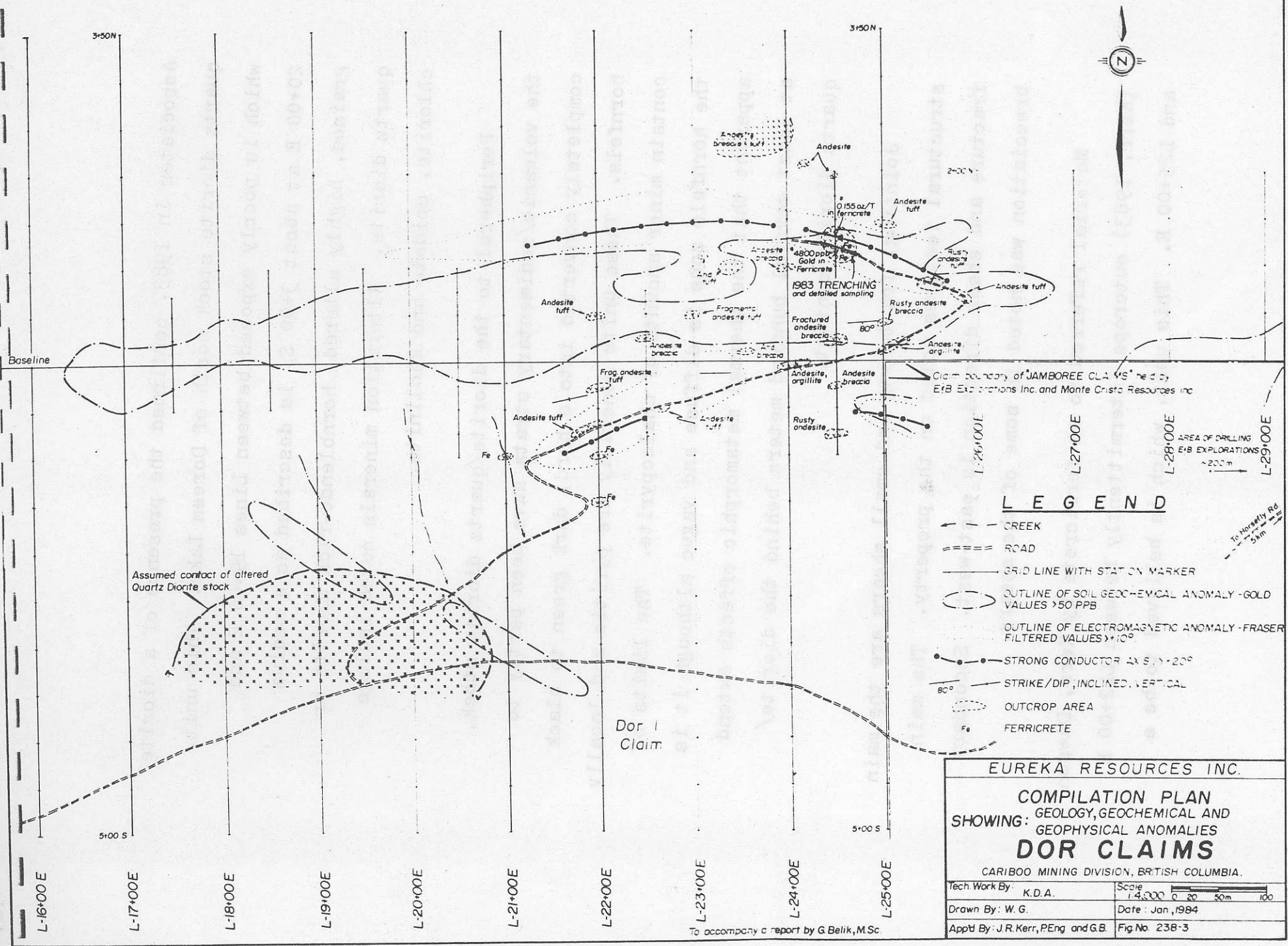
The only record of exploration work having been

previously carried out within the area of the Dor claims is in the annual Minister of Mines report for 1974. Newmont Mining Corporation of Canada and Dome Explorations (Canada) Ltd., completed reconnaissance soil sampling (6.6 line-kms) and geological mapping in the general vicinity of Doreen Lake. This work appears to have been directed towards evaluating the potential for porphyry copper deposits within and adjacent to a small diorite stock. Pyrite and minor chalcopyrite were noted peripheral to the stock and a silicic andesitic tuff horizon south of the stock.

#### General Geological Setting

According to G.S.C. Open File 574 (Campbell, R. B., 1978) the region of the Dor claims is predominantly underlain by volcanic and sedimentary rocks of Upper Triassic to Lower Jurassic age. Within the area of the claims this sequence includes medium to dark green tuffaceous argillite, black argillite, volcanic wacke and andesitic tuffs and breccia. Bedding generally is indistinct although a general northwesterly strike is indicated with moderate to steep northeasterly dips.

Detailed mapping, carried out by Kerr, Dawson and



**LEGEND**

- CREEK
- ROAD
- GRID LINE WITH STATION MARKER
- OUTLINE OF SOIL GEOCHEMICAL ANOMALY - GOLD VALUES >50 PPB
- OUTLINE OF ELECTROMAGNETIC ANOMALY - FRASER FILTERED VALUES >10<sup>2</sup>
- STRONG CONDUCTOR 2X S. N. >20°
- STRIKE/DIP, INCLINED, VERTICAL
- OUTCROP AREA
- FERRICRETE

**EUREKA RESOURCES INC.**

**COMPILATION PLAN**  
GEOLOGY, GEOCHEMICAL AND  
GEOPHYSICAL ANOMALIES

**DOR CLAIMS**

CARIBOO MINING DIVISION, BRITISH COLUMBIA.

Tech Work By: K.D.A.	Scale: 1:4,000
Drawn By: W.G.	Date: Jan, 1984
App'd By: J.R. Kerr, P.Eng. and G.B.	Fig No: 238-3

To accompany a report by G. Belik, M.Sc.

Associates in 1983, confirmed the presence of a diorite/  
quartz diorite stock north of Doreen Lake. This unit,  
which is poorly exposed between Lines 19+00 E and  
20+00 E at about 3+00 S, is described as a medium  
grained, highly altered, hornblende-rich diorite or  
quartz diorite. Alteration minerals noted include  
chlorite, epidote and kaolinite.

Peripheral to the diorite/quartz diorite stock,  
the volcanic/sedimentary strata have been partly to  
completely converted into a hard, dark green to black  
hornfels. These units generally are pyritic and locally  
contain minor amounts of chalcopyrite. The limits of  
the hornfels zone is diffuse and vague although it is  
apparent that the thermal metamorphic effects extend  
at least several hundred meters behind the diorite/  
quartz diorite contact.

Jointing, fracturing and small shears are the main  
structural features noted on the property. The main  
fracture and shear direction is east-west. Secondary  
brecciation was noted in some of the shears.

Material referred to as ferricrete by Kerr, Dawson  
(Kerr, 1983) outcrops intermittently between L22+00 E  
and L25+00 E. This unit, which is believed to be a

surface deposit, resembles a mixture of soil and talus cemented by limonite and/or goethite. Two samples of ferricrete collected on L24+50 E about 125 meters north of the base line assayed 4800 ppb gold and 0.155 oz/ton gold respectively.

In the general vicinity of the two samples noted above, a road cut exposed the ferricrete to a depth of greater than 2 meters. Within this cut fragments and large blocks of siliceous, semimassive to massive sulphide (pyrite, pyrrhotite, chalcopyrite) were noted. The angularity and size of the sulphide-rich float suggest that the bedrock source is near.

#### 1981 Program

In total 330 soil samples were taken during the 1981 program. Samples were taken at 50-meter intervals along 7 east-west lines, 500 meters apart.

The results of this survey are detailed in a report by the writer (Belik, 1981) which was filed for assessment credit. Briefly summarized, scattered anomalous gold values ranging up to 186 ppb and anomalous copper values ranging up to 235 ppm were detected. The

survey was too broad based to permit a meaningful delineation of anomalous zones. Further work was recommended.

### 1983 Program

During the initial phase of the 1983 program 33 km of grid line were established, in two areas, north of Doreen Lake. The southern, or main grid, covered an area of erratic copper/gold soil anomalies defined by the 1981 survey. The northern grid covered the northern part of the Dor 2 claim, where previous work had not been performed. Lines were spaced at 100 meter intervals in the southern grid area and 300 meters intervals in the northern grid area. Soil samples were collected along all grid lines at 50 meter intervals.

During a later phase of the program, detailed soil sampling was carried out in the central part of the southern grid between L17+00 E and 25+00 E; 2+00 N to 3+00 S. Samples were collected at 25 meter intervals along lines spaced 50 meters apart. During the same period geological mapping and sampling of outcrop areas was completed.

During the last phase of the program detailed soil sampling was extended east to L35+00 E and a VLF-Electromagnetic survey was completed over the main target area defined by the earlier geochemical surveys. A 1.2 km road was also completed in order to provide access to the main showing area.

#### Soil Geochemistry

In total 887 soil samples were collected during the 1981 program. All samples were analysed for gold by Acme Analytical Laboratories Ltd., located at 852 East Hastings Street, Vancouver, B. C.

The background for gold within the area surveyed is less than 15 ppb with anomalous values ranging from 20 to 870 ppb. The largest, strongest anomaly is up to 120 meters wide and extends along the southern boundary of the Dor 2 claim, over a strike length exceeding 900 meters. Gold values within the anomalous zone range up to 870 ppb and average about 150 ppb.

#### VLF-E.M. Survey

A VLF-E.M. survey was completed on line 20+00 E

to 25+00 E. The area surveyed covers the eastern half of the main soil anomaly.

A probable bedrock conductor was defined along the north, upslope, edge of the main soil anomaly. The eastern trace of this conductor corresponds closely to the sulphide float noted in the ferricrete unit. This suggests that the conductor may be associated with the source of the sulphide float.

#### Conclusions and Recommendations

Results of the work carried out to date are encouraging. Geochemistry has delineated a large gold soil anomaly which correlates well with an interpreted bedrock conductor. The source of the gold is not exposed in outcrop, however, within the eastern part of the anomaly, sulphide-rich float cemented in a limonitic ferricrete unit has been located. Assays of the ferricrete and sulphide float indicate gold values ranging from .022 to .155 oz/ton. It is concluded therefore that the source of the sulphide float is also the source of the gold. The bedrock conductor, which is situated in close proximity to the sulphide float, provides the



most obvious exploration target.

Further work is warranted. Systematic trenching at regular intervals along the trace of the main soil anomaly and bedrock conductor is recommended as the next phase of exploration. Prior to trenching, the VLF-E.M. survey should be extended to the east and west to trace possible extensions of the bedrock conductor.

If significant mineralization is encountered by the trenching program the zone should be then tested at depth by diamond drilling (Phase II).

### Estimated Cost of Recommended Program

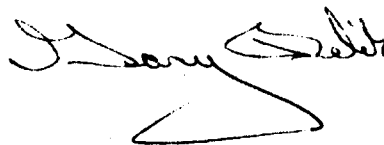
#### Phase I;

- VLF-E.M survey and trenching		
a)	VLF-E.M. survey	\$ 2,000.00
b)	trenching	18,000.00
	- utilizing a D8 or D9 dozer with rippers	
	- allow for 150 hrs. at \$120/hr.	
c)	supervision, mapping, sampling and report preparation	7,000.00
d)	truck rental	1,000.00
e)	room, board and travel cost	1,500.00
f)	assays and geochemical analyses	2,500.00
g)	contingency	3,000.00
	Total Phase I	\$35,000.00

#### Phase II; Contingent upon favourable results of Phase I

- diamond drilling on zones of interest defined by Phase I		
- allow for 600 meters at \$100/meter, all inclusive		\$60,000.00
	Total Phase II	\$60,000.00
	Total Phase I and Phase II	\$95,000.00

Respectfully Submitted,

A handwritten signature in cursive script, appearing to read "Gary D. Belik". The signature is written in dark ink and is positioned above the printed name.

Gary D. Belik, M. Sc.

January 16, 1984



Appendix I

Writers Certificate

**GARY D. BELIK, M.Sc.**

Consulting Geologist  
Mineral Exploration

#6 NICOLA PLACE, 310 NICOLA STREET • KAMLOOPS, B.C. V2C 2P5 • PHONE (604) 374-4247

CERTIFICATE

I, GARY D. BELIK, OF THE CITY OF KAMLOOPS, BRITISH COLUMBIA,  
DO HEREBY CERTIFY THAT:

- (1). I am a member of the Canadian Institute of Mining and Metallurgy, and a fellow of the Geological Association of Canada.
- (2). I am employed by G. Belik and Associates Ltd., with my office at 664 Sunvalley Drive, Kamloops, B. C.
- (3). I am a graduate of the University of British Columbia with a B. Sc. in Honors Geology and a M. Sc. in Geology.
- (4). I have practised continuously as a geologist since May, 1970.
- (5). This report is based on an thorough study of all available exploration data, published and unpublished reports, and my examination of the property on October 23, 1983.
- (6). I have no direct or indirect interest in the property discussed in this report or in the Securities of Eureka Resources Ltd. nor do I expect to receive any.
- (7). Permission is hereby granted to Eureka Resources Ltd. to use this report for financing purposes, and to satisfy the requirement of the B. C. Securities Commission and the Vancouver Stock Exchange.

  
Gary D. Belik, M. Sc.  
Geologist

January 16, 1984

CERTIFICATE OF THE DIRECTORS AND PROMOTERS OF THE ISSUER


The foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Statement of Material Facts.

DATED: January 31, 1984

  
JOHN JOSEPH O'NEILL,  
President, Director and Promoter

  
JOHN REYNOLDS KERR,  
Vice-President, Director and Promoter

  
JAMES MARTIN DAWSON  
Director

  
JOHN THOMAS BROWN,  
Secretary-Treasurer and Director

  
ROBERT FRANCIS O'NEILL,  
Director

CERTIFICATE OF THE UNDERWRITER

To the best of our knowledge, information and belief, the foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Statement of Material Facts.

DATED: January 31, 1984

CANARIM INVESTMENT CORPORATION LTD.

Per: 