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REPORT ON THE  
BONNET PLUME - GOZ CREEK PROPERTY  
YUKON TERRITORY  
Latitude 64°27'N  
Longitude 133°00'W  
NTS 106 C

for

TWIN RIVER RESOURCES LTD.

<u>Claim Names</u>	<u>Record Numbers</u>
CVO 41 - 56	Y85358-Y85373
BPR 1 - 12	Y85374-Y85385
BPR 21 - 40	Y85394-Y85413
TRW 11 - 40	Y85414-Y85454

by:

G. C. GUTRATH, B.Sc., P.Eng., Geologist  
ATLED EXPLORATION MANAGEMENT LTD.  
Vancouver, B. C.

February 13, 1974

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INTRODUCTION

This report is written at the request of Mr. W. Newsom, Vice-President of Twin River Resources Ltd.

The writer examined the claim group that adjoins the Twin River property to the north on September 13, 1973. This report is based on the information acquired during that examination, and, information compiled from published and private reports on the area.

CONCLUSION

The northwest corner of the Twin River property is underlain by the Rapitan formation that is a favourable host for zinc mineralization. On the adjoining property to the north, zinc and minor lead mineralization has been traced for 22,000 feet along the strike of the Rapitan formation.

Considering the favourable geology for stratabound zinc mineralization, and the property's close proximity to known zinc occurrences it is concluded that the Twin River Resources claim group should be explored in detail with particular attention being given to the northwest corner of the claims.

RECOMMENDATION

The following program is recommended to explore the entire claim group.

Phase I

1. Reconnaissance geological mapping, geochemical soil and silt sampling and prospecting.
2. Grid the northWest corner of the claim block with lines at 800 foot intervals. Map the geology and collect soil and/or rock chip sample at 200 foot intervals. Analyse the samples for zinc and lead.
3. Hand trench and sample mineralized zones located by the prospecting and geological mapping.

Phase II

This phase will be contingent on the results of Phase I but if the results are favourable it is expected that a minimum of 2,000 feet of diamond drilling will be required.

ESTIMATED COSTS

Phase I

1. Reconnaissance geological mapping, geochemical soil and silt sampling and prospecting.

(a) Personnel

1 - Geologist for 1 month	\$ 3,600
1 - Senior field assistant	
20 days @ \$80/day	1,600
2 - line-cutting, soil sampling and prospecting	
20 days @ \$40/per man day	1,600

(b) Soil Sample Analysis

1,000 samples for lead and zinc	
@ \$1.75/sample	1,750

(c) Assaying

500

(d) Transportation

- Scheduled aircraft	
- Helicopter	
10 hours @ \$296.00/hr = \$2,960	5,460

(e) Equipment supplies

1,000

(f) Food

110 man days @ \$12/man day	1,320
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(g) Trenching

- 2 men for 10 days	
@ \$40/man day	\$800
- Cobra drill Rental	\$150
- Drill steel, powder	\$250
and miscellaneous supplies	1,200

(h) Consulting, data preparation and reports

750  
18,780

Overhead and Contingencies @ 20%

3,756  
\$ 22,536

Phaze II

(Contingent on Phase I)


2,000 feet of BQ wireline drilling at an overall

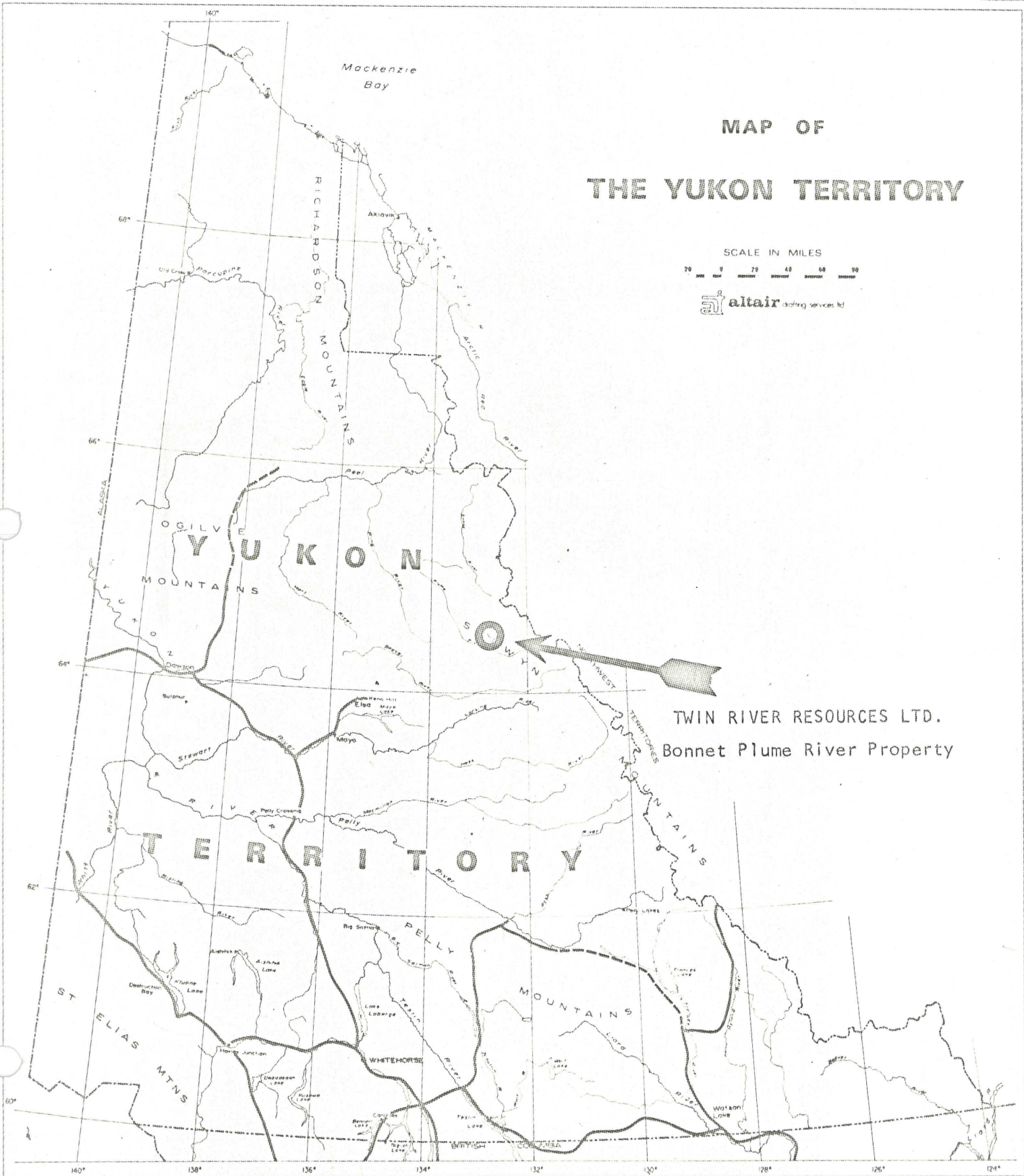
cost of \$25.00/feet

\$ 50,000

# MAP OF THE YUKON TERRITORY

SCALE IN MILES  
0 25 50 75 100

 altair drafting services ltd



TWIN RIVER RESOURCES LTD.  
Bonnet Plume River Property

GEOGRAPHY

Location

The property is located on the north and south side of the Bonnet Plume River approximately 18 miles northwest of the confluence of Goz Creek and the Bonnet Plume River. Mayo is located 110 miles to the southwest.

Access

Access to the property is by helicopter from the community of Mayo.

An airstrip suitable for DC-3 aircraft will be built in early 1974 in the Goz Creek area.

Topography

The claim group covers the lower north side and the south side of the Bonnet Plume valley. The river is at an elevation of 2,800 feet and on the south the claims extend to an elevation of 4,000 feet, on the north to an elevation by 3,500 feet.

Climate

The average yearly rainfall would be in the range of 20 to 25 inches. Winter compacted snow would vary from 3 to 6 feet along the Bonnet Plume valley. The area below the 4,000 foot elevation would be free of snow from June to October.

Vegetation

The valley bottom is covered by spruce suitable for mine timber or lumber. The slopes are covered by scattered stands of balsam and buckbrush to the 4,500 foot elevation.

Water

There is ample water on the property for drilling purposes.

CLAIMS

The following information on the claims has been given to the writer by a representative of Twin River Resources Ltd.

<u>Name</u>	<u>Record No.</u>	<u>Expiry Date</u>
CVO 41-56	Y85358-Y85373	August 15, 1974
BPR 1-12	Y85374-Y85385	August 15, 1974
BPR 21-40	Y85394-Y85413	August 15, 1974
TRW 1-40	Y85414-Y85454	August 15, 1974

HISTORY

During the 1973 exploration season, Barrier Reef Resources Ltd. discovered a significant zinc discovery near the junction of Goz & Duo Creeks in the Bonnet Plume River area. There was already considerable exploration activity for lead and zinc mineralization in the north-eastern Yukon with the discovery by Placer Development of zinc mineralization in the Howards Pass area followed by numerous discoveries in the Godlin Lakes area. The Barrier discovery resulted in a staking rush and over 1,800 claims were staked. It was during this initial staking rush that Cypress Resources Ltd. discovered zinc and lead mineralization in the Rapitan formation adjoining the Twin River Resources property to the north.

There has been no exploration done on the majority of the Twin River property. Very limited prospecting has been done along the strike of the Rapitan dolomites in the northwest corner of the property.

GEOLOGY

The property lies on the southwest margin of the Bonnet Plume range and is underlain by a thick sequence of sedimentary rocks ranging from Precambrian to Devonian in age. The general bedding attitudes in the area indicate that the claims lie on the northeast limb of a broad open anticline with the axis striking N 60° W.

On the Twin River Resources claim group a thick Precambrian shale unit underlays the majority of the claim group. The northwest corner of the claim group is reported to cover the lower portion of a Precambrian dolomite unit that overlies the shales and extends upslope to the north.

This dolomite unit is a very favorable host for stratabound zinc mineralization. On the adjoining claim group owned by Cypress Explorations Ltd. the zinc mineralization in this unit has been traced along strike for 22,000 feet. The zinc mineralization within the dolomite unit occurs as sphalerite and smithsonite in massive lenses, or a dissemination and veinlets in weakly silicified breccia zones. Minor lead occurrences are associated with the zinc mineralization.

Approximately 2 miles to the east, Barrier Reef Resources Ltd. have located a stratabound, pyritic, lead-zinc mineralized zone at the base of this dolomite unit.

Respectfully submitted,

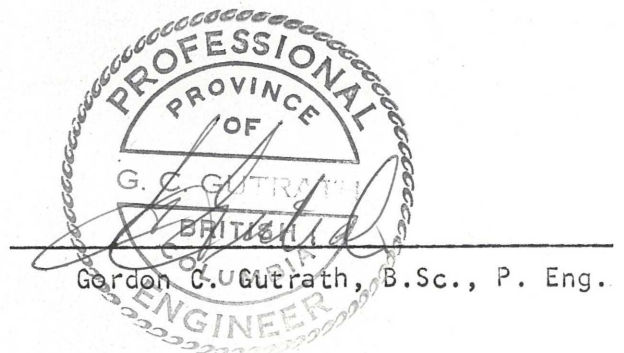


G. C. Guttrath, P. Eng.,  
ATLED EXPLORATION MANAGEMENT LTD.

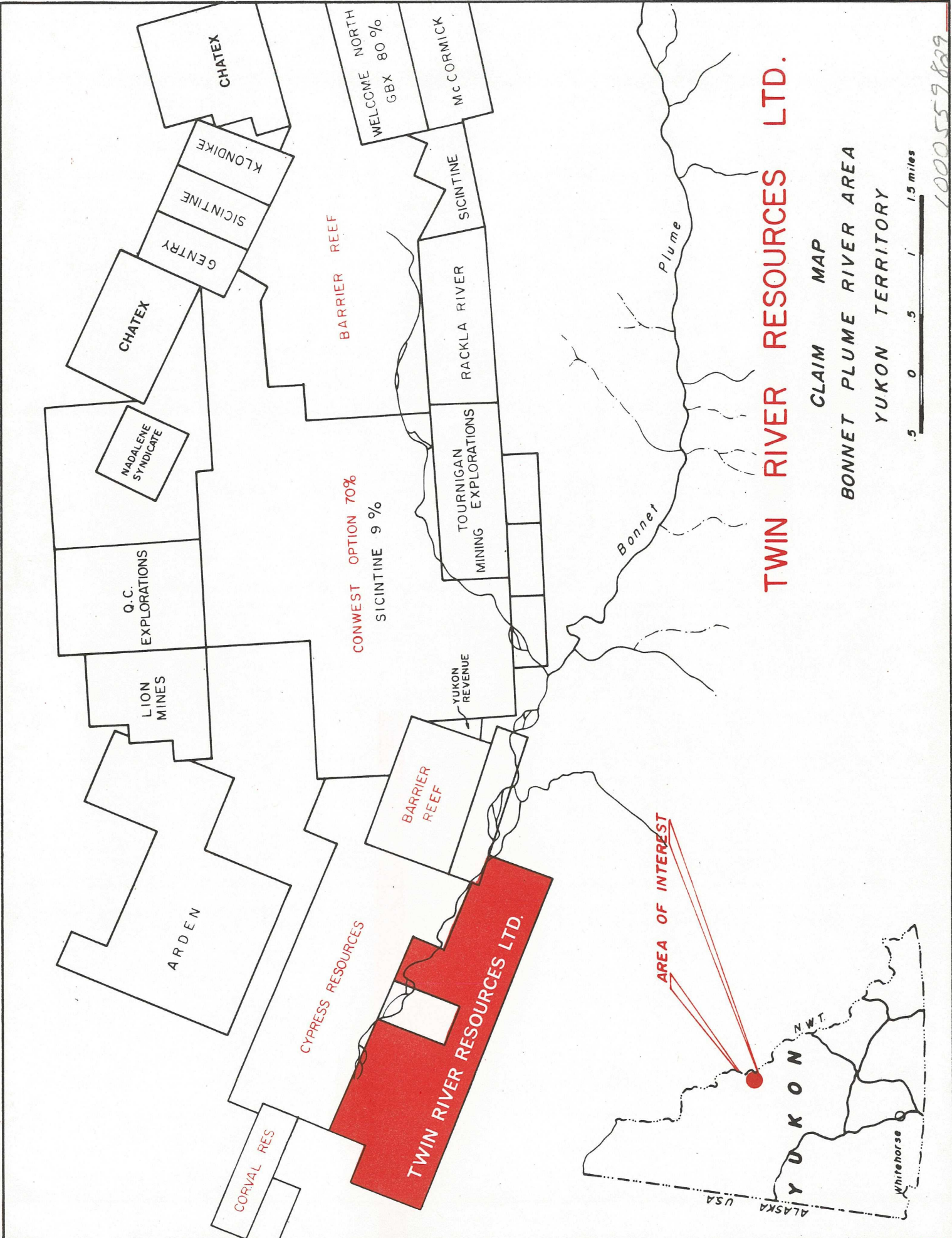
ENGINEER'S CERTIFICATE

I, GORDON C. GUTRATH, of 3636 Lakedale Avenue, in the Municipality of Burnaby, in the Province of British Columbia, DO HEREBY CERTIFY:-

1. That I am a consulting geologist with a business address of #420-475 Howe Street, Vancouver 1, B.C.
2. That I am a graduate of the University of British Columbia where I obtained my B.Sc. in geological science in 1960.
3. That I am a Registered Professional Engineer in the Geological Section of the Association of Professional Engineers in the Province of British Columbia.
4. That I have practised my profession as a geologist for the past fourteen years, and
5. That I have no interest in the property with which this report is concerned, nor do I expect to receive any such interest. I have no interest in the securities of Twin River Resources Ltd.



DATED at the City of Vancouver, Province of British Columbia, this 13th day of February, 1974.



**TWIN RIVER RESOURCES LTD.**

CLAIM MAP  
 BONNET PLUME RIVER AREA  
 YUKON TERRITORY



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