

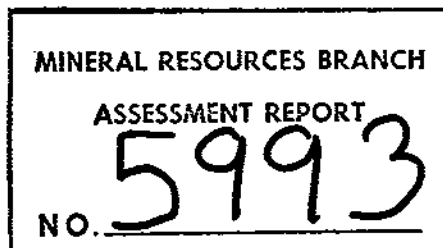
5993

REPORT
on the
JO ANN COPPER PROSPECT
Omineca Mining Division

for
Douglas B. Stelling

by
R. G. Potter P.Eng.

Vancouver, Canada September 17, 1976



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ILLUSTRATIONS

Location Map

Property Map

MAP 1- Grid Map

1-00 INTRODUCTION

Assessment work carried out on the Jo Ann claims during 1976 includes a control grid comprising 25 kilometers of cut lines. This work was done in preparation for geological mapping and an induced polarization survey.

Mr. R. W. Phendler, P. Eng. has visited the property and has found it to be staked in accordance with the British Columbia Mining Act.

The writer is familiar with the geology of the Duckling Creek area.

2-00 LOCATION AND ACCESS

The Jo Ann property is located about 35 miles west-northwest of Germansen Landing in the Omineca Mining Division (NTS 93N/14W). Approximate geographical co-ordinates are Lat: $55^{\circ} 56'N$ Long.; $125^{\circ}29'W$ Lat.

Access is by helicopter from Germansen Landing.

Access by road is west from Germansen on the Omineca road for about thirty miles. From this point a rough track extends westward to the Lorraine property which lies two miles south of Jo Ann.

3-00 PROPERTY

The Jo Ann claim group comprises a contiguous block of forty (40) full sized mineral claims and two (2) fractions the details of which are as follows:

Name of claim

Jo Ann 1-10	expiry date May 4, 1978
Jo Ann 18	expiry date May 4, 1978
Jo Ann 20 - 26	expiry date May 4, 1978
Jo Ann 27-38	record date August 20, 1974

Jo Ann 39-48

record date January 3, 1975

Jo Ann] and 2 Fr.

record date August 20, 1974

These claims are currently held by D. B. Stelling of Germanse Landing, B. C.

4-00 HISTORY

Recent interest in the Duckling Creek area has been centred on the Lorraine (Granby) Tam (Umex) properties. Reported reserves for these deposits are twenty million tons grading 0.60% Cu and ten million tons grading 0.90% Cu respectively. The Jo Ann claims lie about two miles north of Lorraine and one and one-half miles east of Tam.

The subject property was staked by D. Stelling of Germanse Landing on ground which covered the former Pik claims of Noranda Explorations Ltd. Geological mapping and soil sampling were carried out by Noranda in 1972.

In 1973 the property was optioned to Union Miniere which carried out ground magnetometer and induced polarization surveys (13 and 2 line miles respectively) and 356 feet of diamond drilling in two holes.

Mr. Stelling extended the geochemical coverage in 1974.

5-00 GEOLOGY

The Jo Ann property is underlain by granitic rocks of the Hogen batholith. Significant zones of mineralization in the Duckling Creek area are associated with fracturing in bodies of syenite. Fracture controlled malachite and chalcopryrite mineralization is known to occur within syenitic rocks on the Jo Ann claims.

6-00 SURVEY RESULTS

Surveys carried out by Union Miniere in 1973 were focused on an area of anomalous soils (Cu) lying in the valley bottom near the western

edge of the property. No. I.P. anomalies were disclosed but two short diamond drill holes intersected altered diorite carrying disseminated bornite. Grades of 0.02 Cu over 202 feet and 0.06% Cu over 154 feet are reported.

Additional soil sampling by D. Stelling has revealed two other copper anomalies (greater than 150 ppm) with co-incident silver (greater than 1.5 ppm) and molybdenum (more than 13 ppm) anomalies. These lie to the east of the area covered by Union Miniere in a relatively high part of the property.

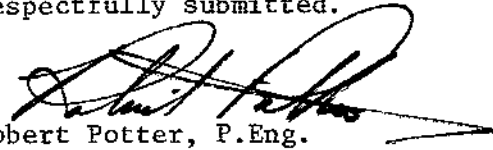
7-00 LINE CUTTING

During the period July 25 to August 4, 1976 a control grid was established on the Jo Ann property. This was laid out to cover soil anomalies and areas of known mineralization. The grid will be used to control geological mapping and an induced polarization survey.

Line cutting was carried out by a crew of four under the direction of Mr. D. Bragg. The grid covers an irregular area about 1500 meters north south by 1800 meters east west. East west lines are spaced at 100 meters with chained stations located every 50 meters. Tie lines were established to control lines spacing.

The writer considers this grid to be necessary for the continuation of exploration on the Jo Ann property and, therefore, certifies its validity as bona fide assessment work.

Respectfully submitted.


Robert Potter, P.Eng.

Vancouver, B. C.

September 20, 1976


CERTIFICATE

I, ROBERT GARY POTTER, of P. O. Box 3, Fulford Harbour, British Columbia,
Canada,

HEREBY CERTIFY

1. That I am a practicing Geological Engineer.
2. That I hold the degrees of BAsC. in Geological Engineering from the University of British Columbia (1961) and MSc. (Applied) from McGill University (1972).
3. That since graduation I have practiced my profession in Canada and Europe.
4. That I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
5. That I have no interest, financial or otherwise in the Jo Ann claims.

Dated this 20th day of September, 1976 at Vancouver, British Columbia


Robert Potter, P.Eng.

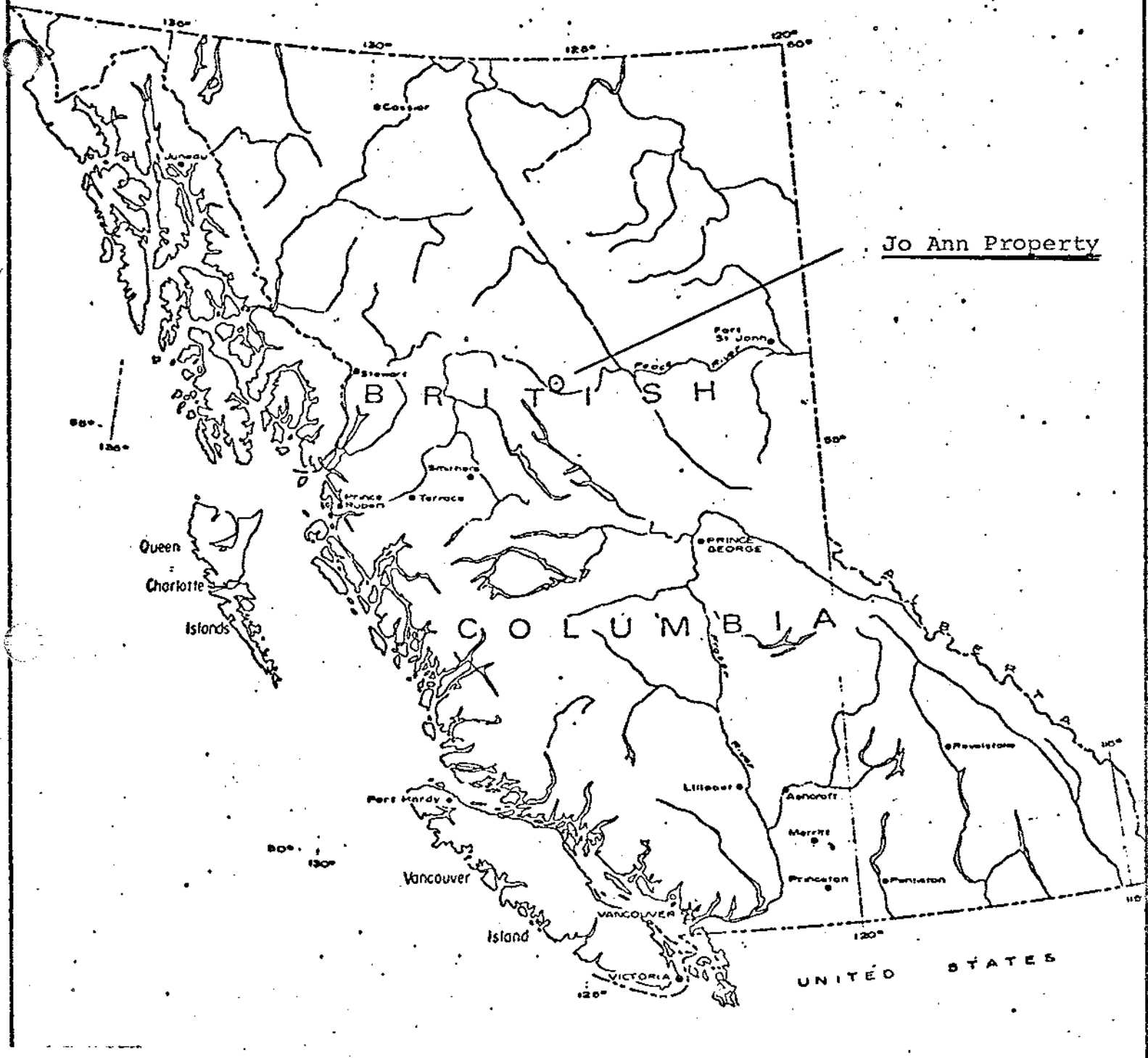


FIGURE 1
 JO ANN CLAIMS
 PROPERTY LOCATION MAP
 Scale 1" = 136 miles

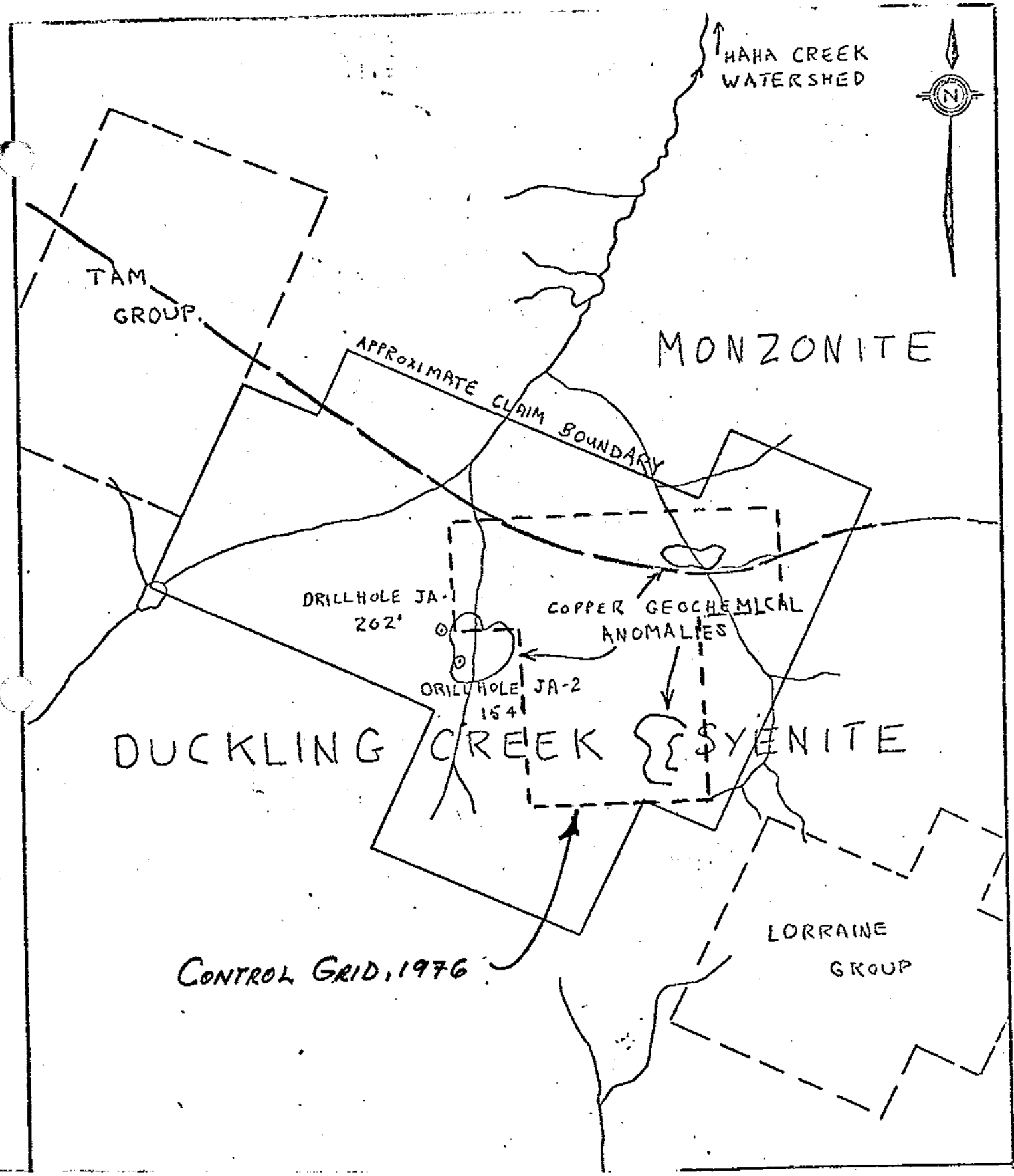


FIGURE 2
 JO ANN CLAIMS
 PROPERTY MAP
 SCALE 1" = 1/2 mile

MERIN MANAGEMENT LTD.
906-675 WEST HASTINGS STREET
VANCOUVER, B. C.

September 17, 1976.

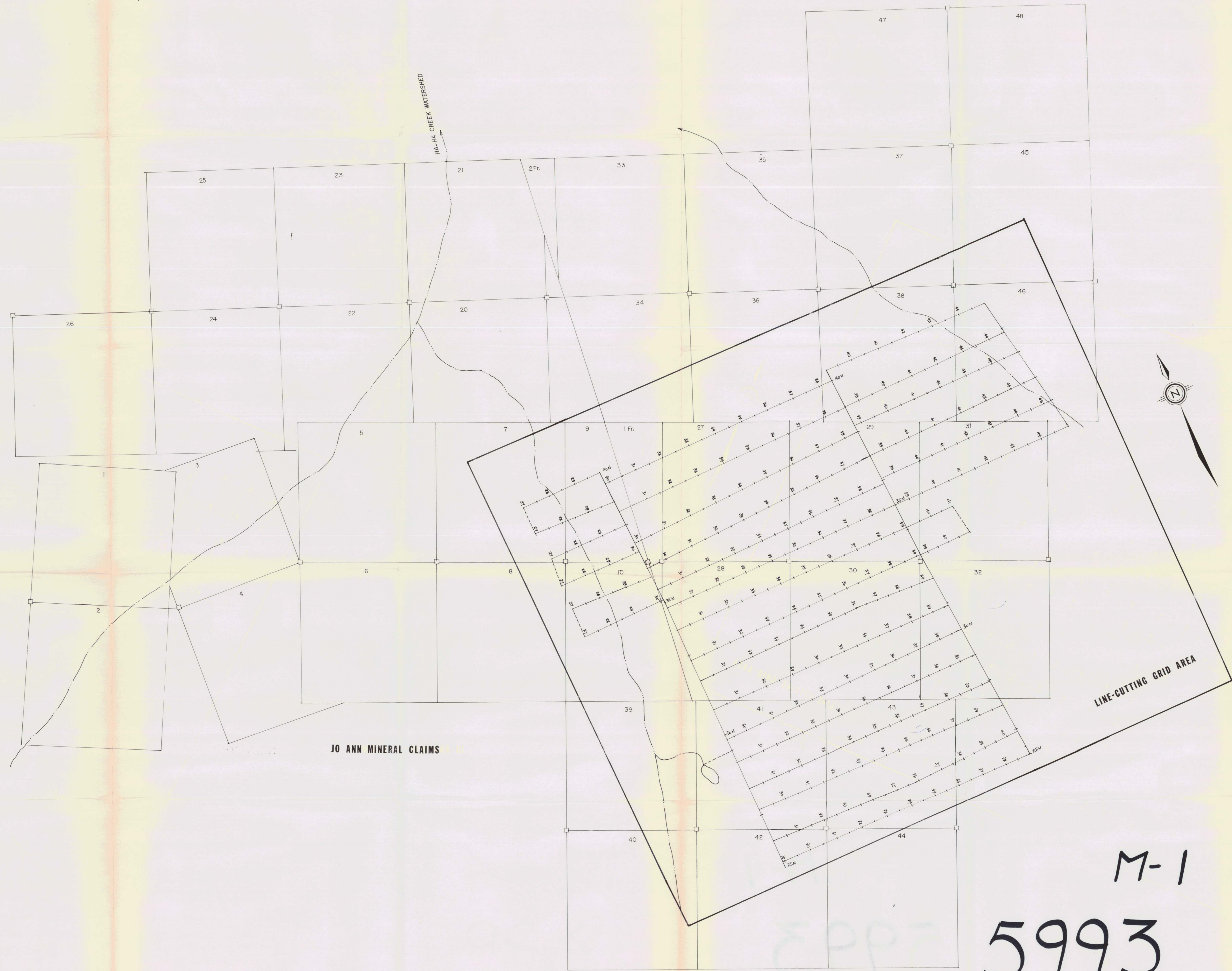
INVOICE TO: Doug Stelling
Germansen Landing, B. C.

Invoice # 76-018

RE: JO ANN PROPERTY

Line-cutting, 24 km. by contract from Don Bragg	\$ 5,500.00
Helicopter charter to and from property	652.83
	<hr/>
	\$ 6,152.83
	<hr/> <hr/>

CH Stanley



JO ANN MINERAL CLAIMS

LINE-CUTTING GRID AREA

M-1

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GILLIAN MINES LTD.	
JO ANN MINERAL CLAIMS	
DUCKLING CREEK AREA	
OMINECA M.D., B.C.	
MINERAL RESOURCES BRANCH	
ASSESSMENT REPORT	
NO.	5993
MAP NO.	1
LINE-CUTTING PLAN	
SCALE: 1:5000	
MAP REFERENCE 93N/13E.14W	
PROPERTY COORDINATES 55° 56' N. 125° 29' W.	
JANUARY, 1977	MERIN MANAGEMENT LTD.

C.H. Stanley