

81-1105-9871

ASSESSMENT REPORT
ON A
VLF ELECTROMAGNETIC SURVEY
ON THE
MB 4 CLAIM
QUEEN CHARLOTTE ISLANDS, B. C.
SKEENA M. D.

53° 37' N. LAT.

132° 16' W. LONG.

NTS 103F/9W

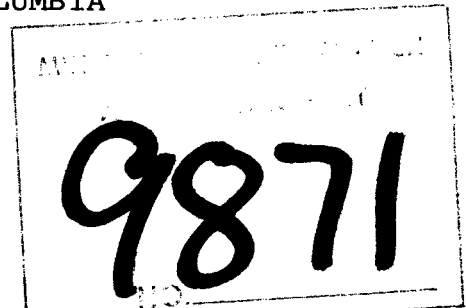
FOR

ANGELO TOSI
VANCOUVER, BRITISH COLUMBIA

BY

R.J. ENGLUND, B.Sc.
STRATO GEOLOGICAL ENGINEERING LTD.
VANCOUVER, BRITISH COLUMBIA

FEBRUARY 12, 1982



Part 1 of 2



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VLf Electromagnetic Survey

MB4 Claim

SUMMARY

A reconnaissance VLF electromagnetic survey over the MB4 claim has indicated the presence of a northerly striking, weak conductive zone in the west-central grid area that warrants further work.

A detail VLF survey and geochemical sampling over this area is recommended to better define and examine the indicated conductive zone.

Respectfully submitted,

STRATO GEOLOGICAL ENGINEERING LTD.

Ralph J. Englund, B.Sc.

Geophysicist

February 12, 1982

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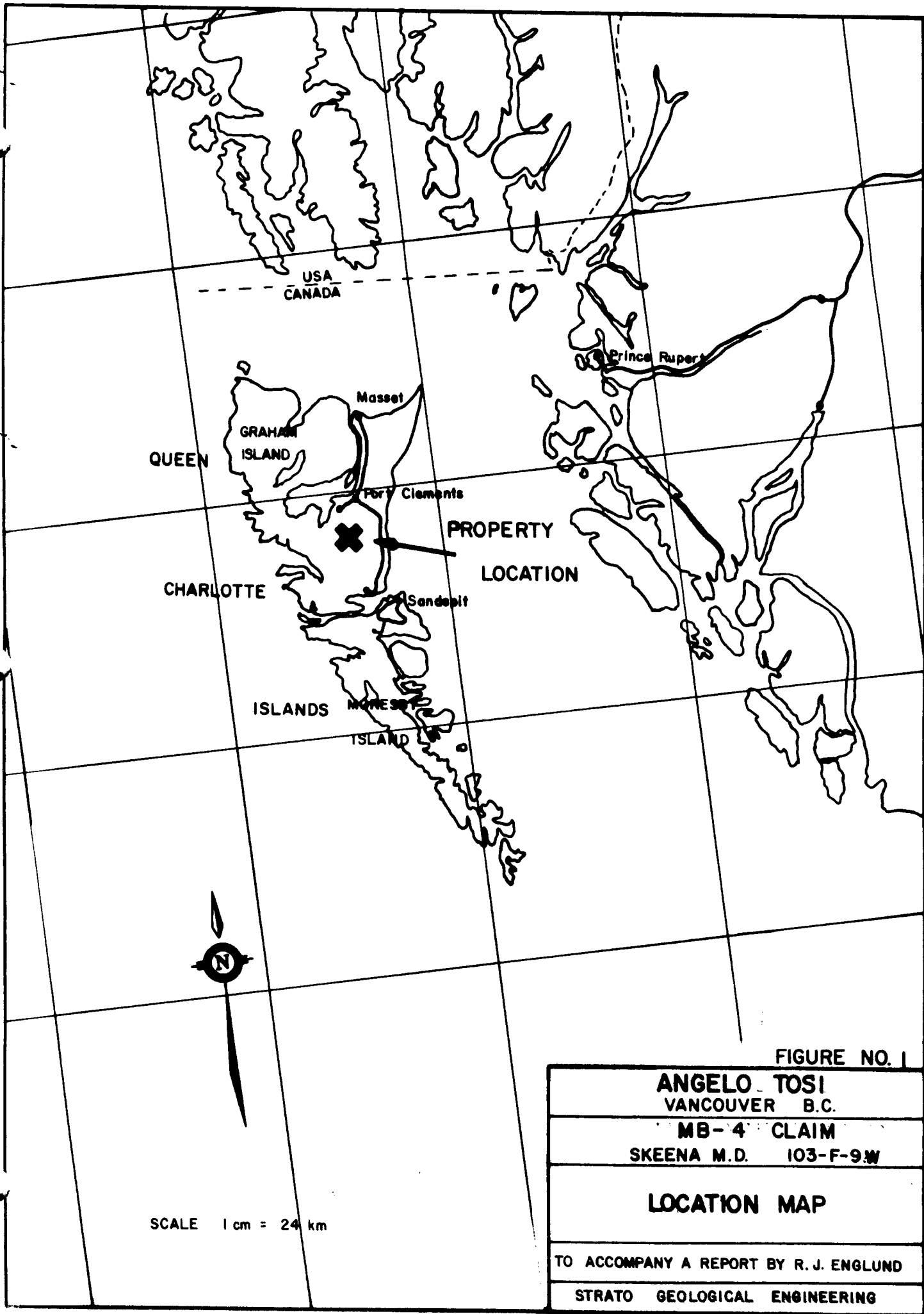
INTRODUCTION

Persuant to a request by Mr. A. Tosi, a VLF electromagnetic survey was conducted over the MB4 Claim during July 1981. The intent of the survey was to delineate geological structure, contacts, and/or faults within the survey area. The results of 22.5 kilometers of survey data are presented in this report.

LOCATION, ACCESS, TOPOGRAPHY

The property is located some 18 kilometers southwest of Port Clements, B.C. and the main MacMillan-Bloedel road passes some 500 meters south of the L.C.P. which is located in the southeast corner of the claim. The Bay logging road and several branch roads provide easy access to most areas of the claim.

Topographic relief is low with elevations around 40 meters in the eastern claim area. Elevations in the western areas vary from near sealevel in the northwest corner of the claim to about 90 meters on unit 4W, 4N (Figure 3).



SCALE 1 cm = 24 km

FIGURE NO. 1

ANGELO TOSI
VANCOUVER B.C.

MB-4 CLAIM
SKEENA M.D. 103-F-9.W

LOCATION MAP

TO ACCOMPANY A REPORT BY R. J. ENGLUND

STRATO GEOLOGICAL ENGINEERING

The property has been logged and is generally covered with slash and second growth. Much of the low ground is quite swampy and there is indication of heavy overburden cover.

CLAIMS

The property comprises twenty contiguous mineral claim units in the Skeena Mining Division about 18 kilometers southwesterly of Port Clements.

The claim is recorded as follows:

<u>Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Expiry Date</u>	<u>Recorded Holder</u>
MB4	20	856	December 20, 1981	A. Tosi

Assessment work has been filed, this report being part of the work to maintain the claims in good standing until 1982. The claims are shown on B.C. Department of Mines and Petroleum Resources Mineral Titles Reference Map 103F/9W.

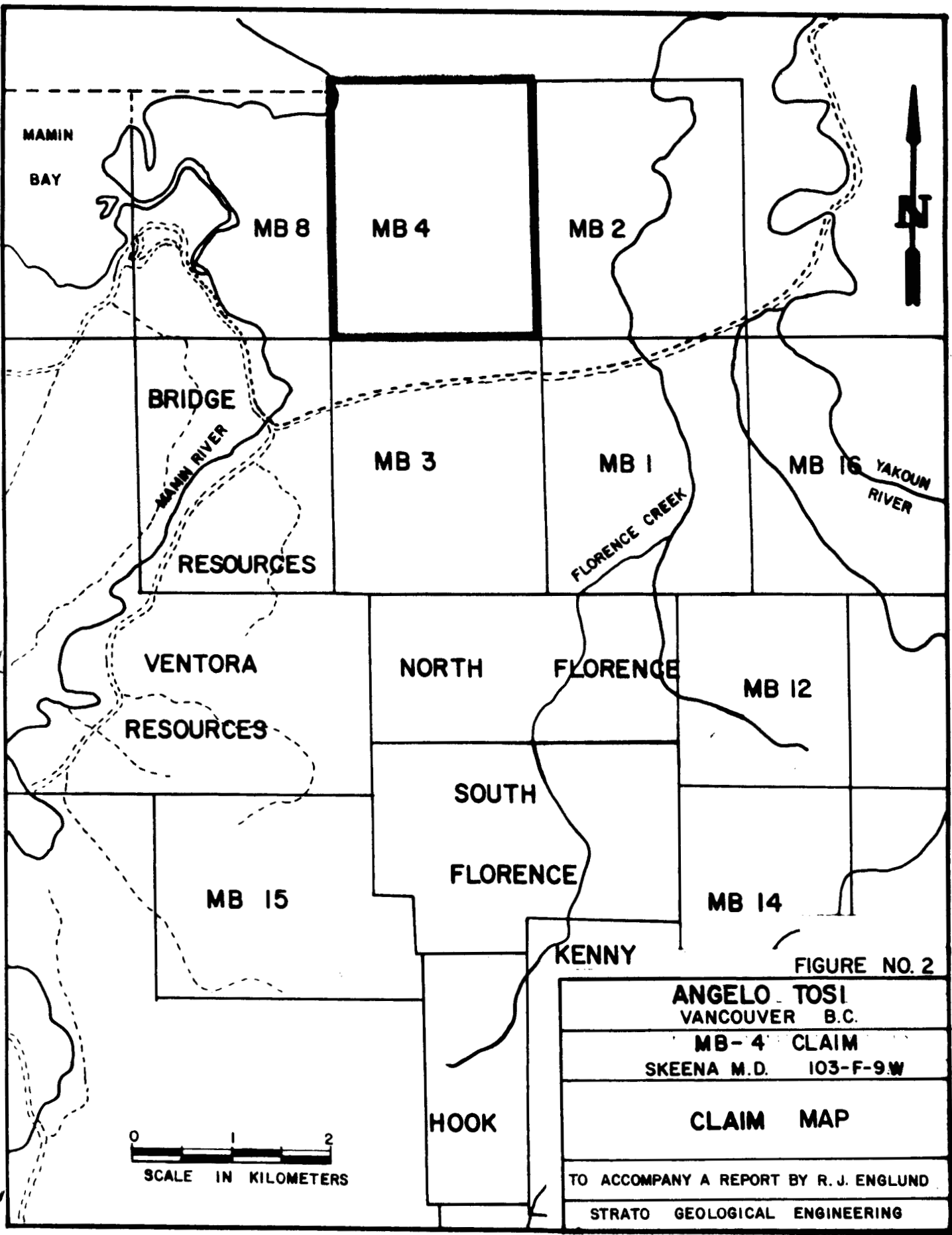


FIGURE NO. 2

ANGELO TOSI VANCOUVER B.C.
MB-4 CLAIM SKEENA M.D. 103-F-9.W
CLAIM MAP
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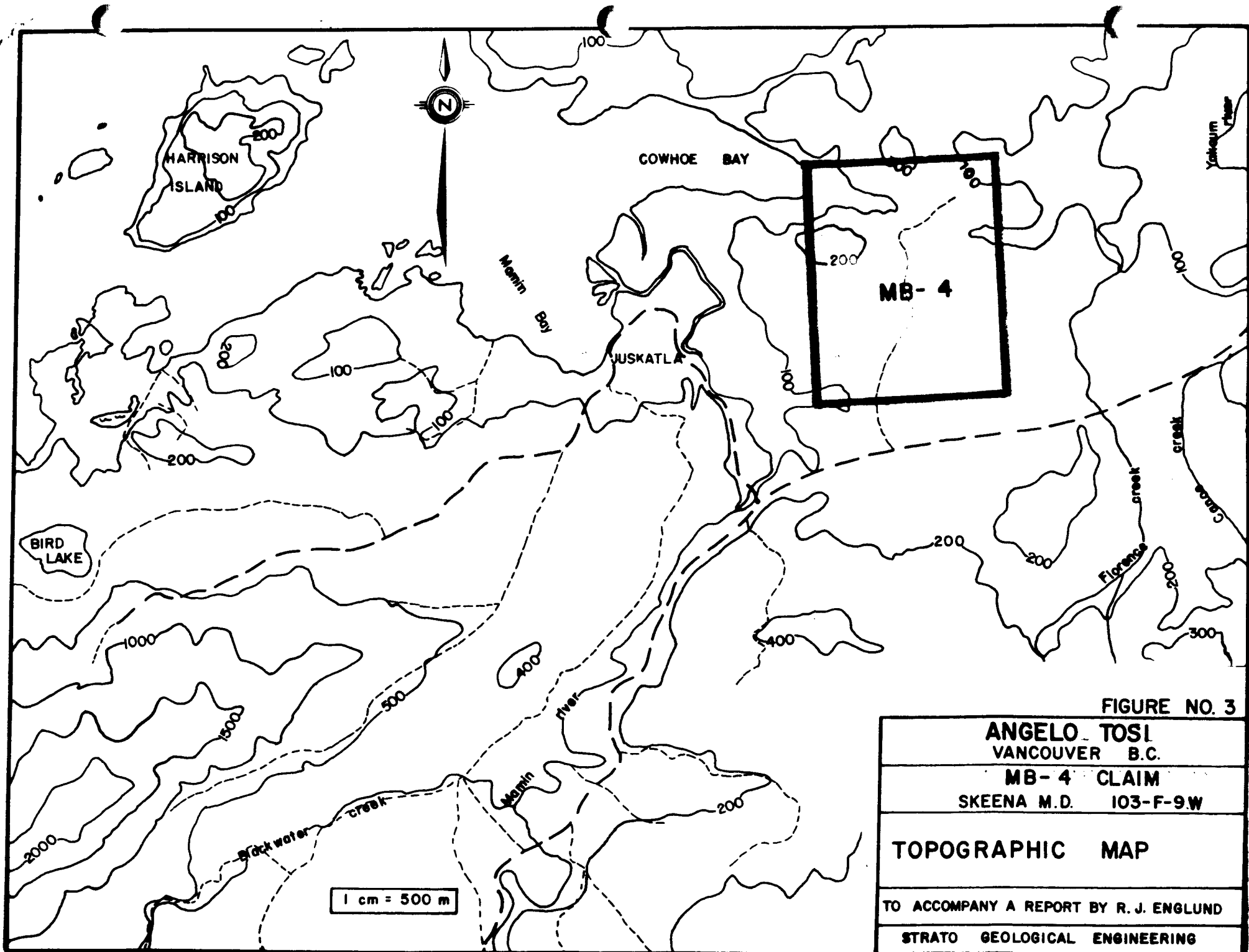


FIGURE NO. 3

ANGELO TOSI
VANCOUVER B.C.

MB-4 CLAIM
SKEENA M.D. 103-F-9.W

TOPOGRAPHIC MAP

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The L.C.P. is located in accordance with the specifications of the Mining Act some 500 meters north of the main road. Exact location and the claim area can only be proven by a legal survey.

GENERAL GEOLOGY

The entire property, as mapped by A. Sutherland Brown, Bulletin No. 54, is overlain by Quaternary sediments overlying the Skonun formation of mudstones, sandstones and conglomerates. This formation is believed to unconformably overlie the Masset Formation of sub-aerial basalt flows, rhyolite ash flows, and some dacite where it laps onto this formation.

No outcrops were found or have been reported on the property.

INSTRUMENTATION & SURVEY PROCEDURE

The survey grid was established from the L.C.P. in the southeast corner of the claim. East-west lines were compassed and chained at 200 meter line intervals and 25 meter station spacing from a north-south baseline along the eastern claim boundary.

The survey was conducted with a Sabre Electronics, Model 27, VLF EM receiver, Serial No. 57. The VLF Transmitter used was Jim Creek, Wash., at frequency of 18.6 KHz. and a radiated power of 250 kilowatts. Both dip angle and horizontal field strength measurements were recorded; dip angle measurements were filtered using the Fraser Filter Method to permit the presentation of data in contour map form, Figure 4. The method is well known and is fully described in the literature.

DISCUSSION OF RESULTS

The Fraser Filter and Profile Plot Plan Maps, Figures 4 and 5 respectively, indicate considerable north-south lineation which conforms to VLF survey results on surrounding claims.

A weak, north-south trending, conductive zone at about 12+00W extends from 0+00N to 12+00N and possibly to 18+00N. Maximum amplitudes at 8+00N are coincident with an approximate 10% Field Strength anomaly (Figure 6) but are also associated with swampy ground in this area. A second very weak, near parallel, conductor is indicated some 150 meters east and has similar strike length.

A third very weak, intermittent, conductive zone trends north-south at about 2+00W and may be attributed to low lying swampy ground.


CONCLUSIONS AND RECOMMENDATIONS

The VLF electromagnetic survey results have indicated the presence of a relatively weak, narrow conductive zone having a considerable north-south strike length and a possible secondary, parallel zone some 150 meters to the east.

The anomalous area is worthy of further work and a detailed VLF survey along with geochemical sampling is recommended to better define and investigate the conductive zone.

Respectfully submitted,

Strato Geological Engineering Ltd.


Ralph J. Englund, B.Sc.

Geophysicist

February 12, 1982

TIME-COST DISTRIBUTION

Magnetometer and VLF E.M. surveys were conducted over the MB2 and MB4 claims by Strato Geological Engineering Ltd. during the period July 2 to July 31, 1981. The work program has been applied to cover assessment requirements for the Claims Group consisting of the following:

MB2, MB4, MB7, MB8

A listing of personnel and distribution of costs is as follows:

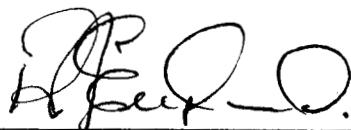
Personnel

G. Hackett,	Geophysical Operator & Field Supervisor
K. Anderson,	Geophysical Operator
N. Stevenson,	Geophysical Operator
W. Davidson,	Field Assistant
M. Coughlin,	Field Assistant

Cost Distribution

Labour	\$ 11,217.94
Room and Board	1,347.32
Transportation	2,117.07
Instrumentation	515.00
Camp and Field Supplies	2,143.21
Drafting and Misc.	860.00
Reports (2)	<u>1,800.00</u>
TOTAL	\$ 20,000.54

SIGNED:



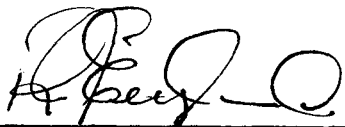
Strato Geological Engineering Ltd.

CERTIFICATE OF QUALIFICATIONS

I, Ralph J. Englund, do hereby certify that:

- (1) I am a practising geophysicist with offices at 103 - 709 Dunsmuir Street, Vancouver, B.C., Canada, V6C 1M9.
- (2) I am a graduate of the University of British Columbia where I obtained my B.Sc. (Physics) in 1971.
- (3) I am a member in good standing of the following professional organization:
 - (a) B.C. Geophysical Society
- (4) I have been engaged in the Study, teaching, and practice of exploration geophysics continuously for a period of 9 years. I have worked as a geophysical consultant on numerous projects in Western North America since 1972.
- (5) The geophysical field work and the interpretation of results in this report were done under my direct supervision.
- (6) I have no direct, indirect, or contingent interest in the MB4 claim, nor do I expect to receive any such interest.

Dated in Vancouver, B.C. this 12th day of February, 1982.



Ralph J. Englund, B.Sc.
Geophysicist

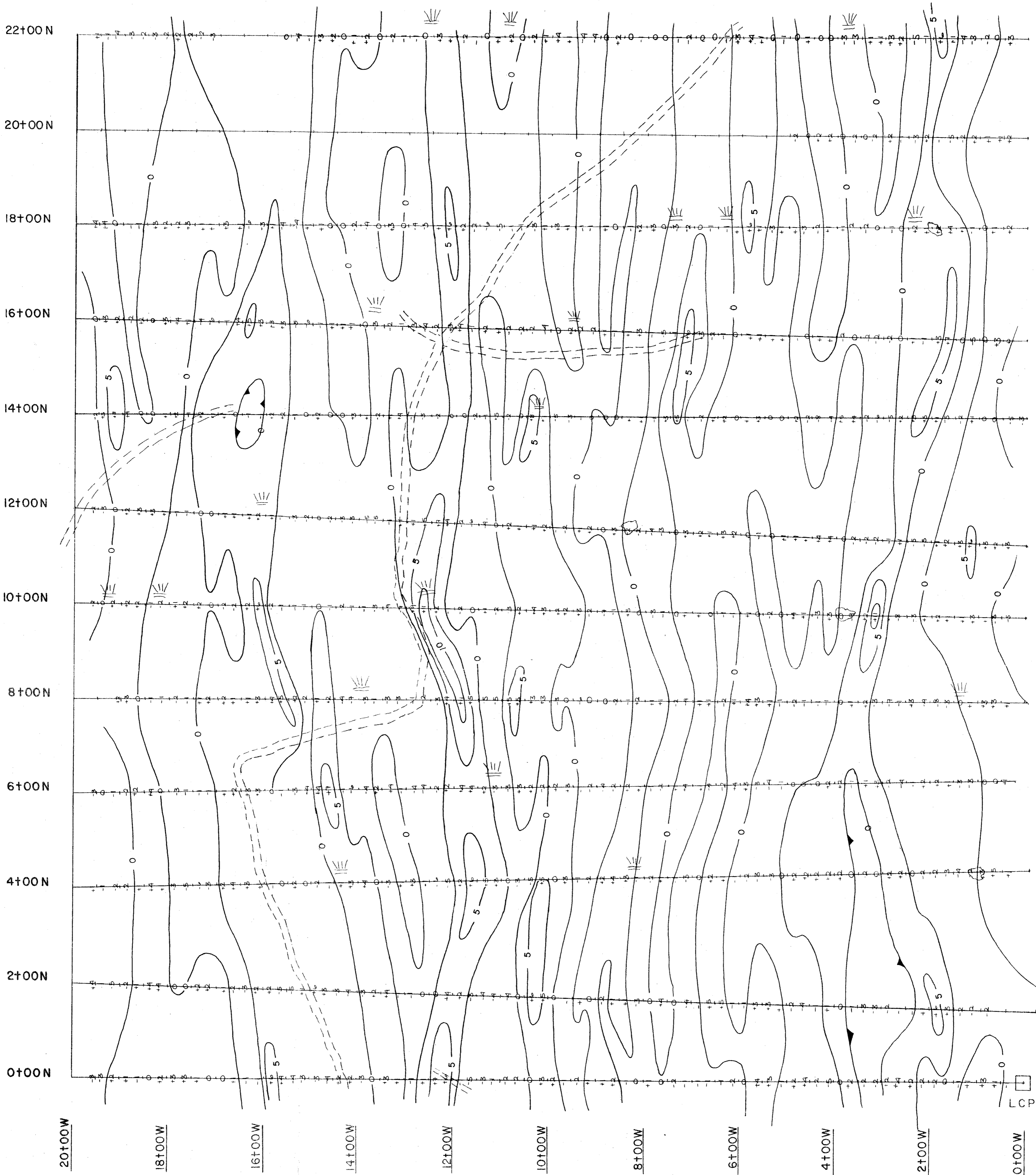


FIGURE 4

R.P.O.
12 Feb 1982

MINING DIVISION
 9871
 NO.

Part 1 of 2

ANGELO TOSI
 MB 4 CLAIM
 SKEENA MINING DIVISION
 VLF ELECTROMAGNETIC SURVEY
 FRASER FILTER CONTOUR MAP
 CONTOUR INTERVAL: 5°

SCALE IN METERS

TO ACCOMPANY A REPORT BY R.J.ENGLUND

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 VANCOUVER B.C.

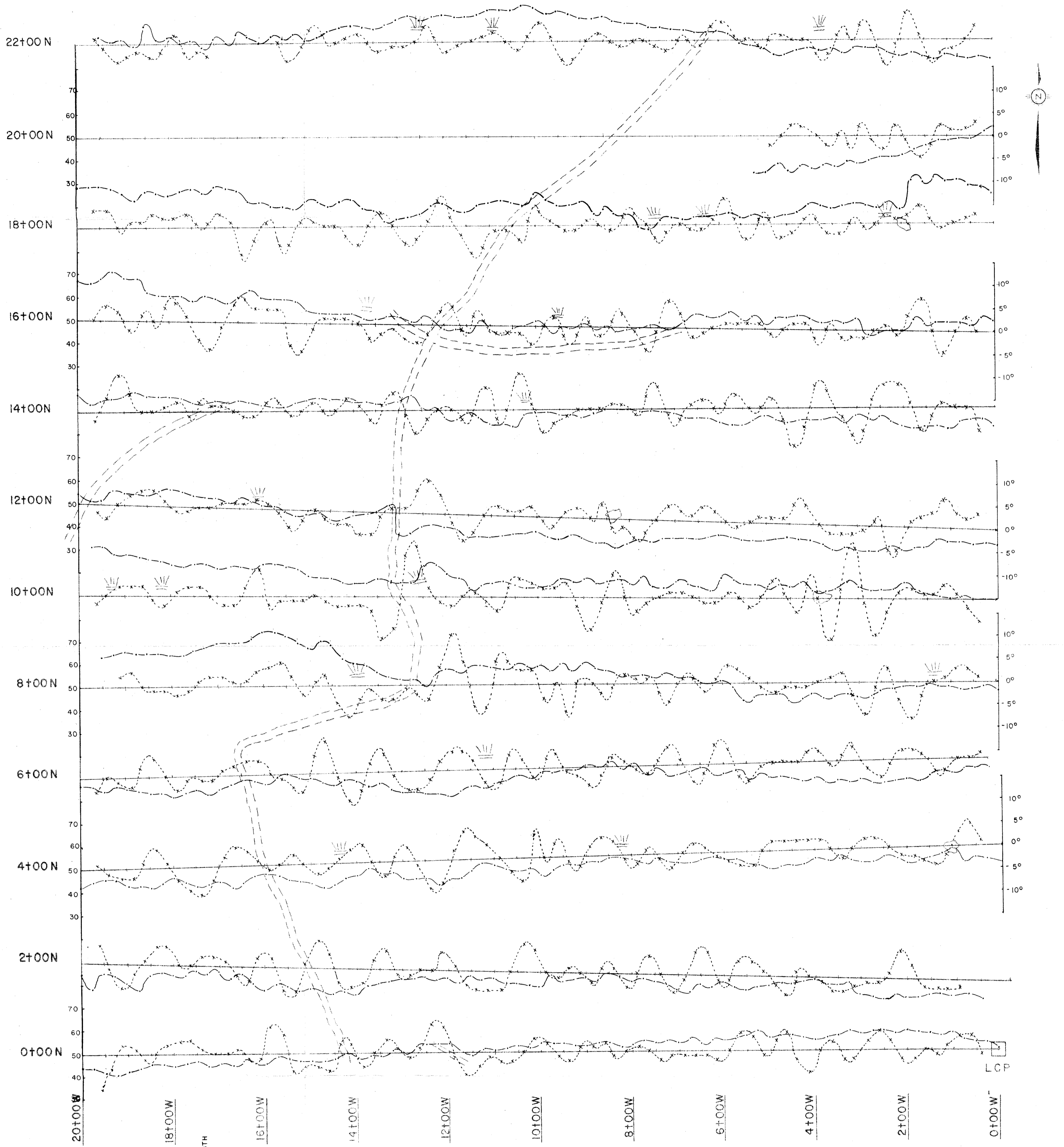
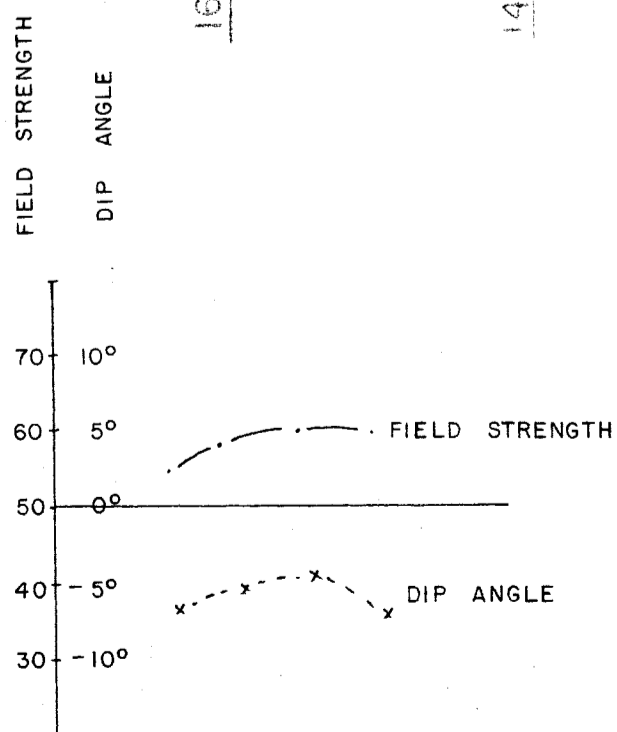


FIGURE 5



MINERAL SURVEY BRANCH
 9871
 NO.

Part 1 of 2

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 12 Feb 1982

ANGELO TOSI
 MB 4 CLAIM
 SKEENA MINING DIVISION
 VLF ELECTROMAGNETIC SURVEY
 PROFILE PLOT PLAN

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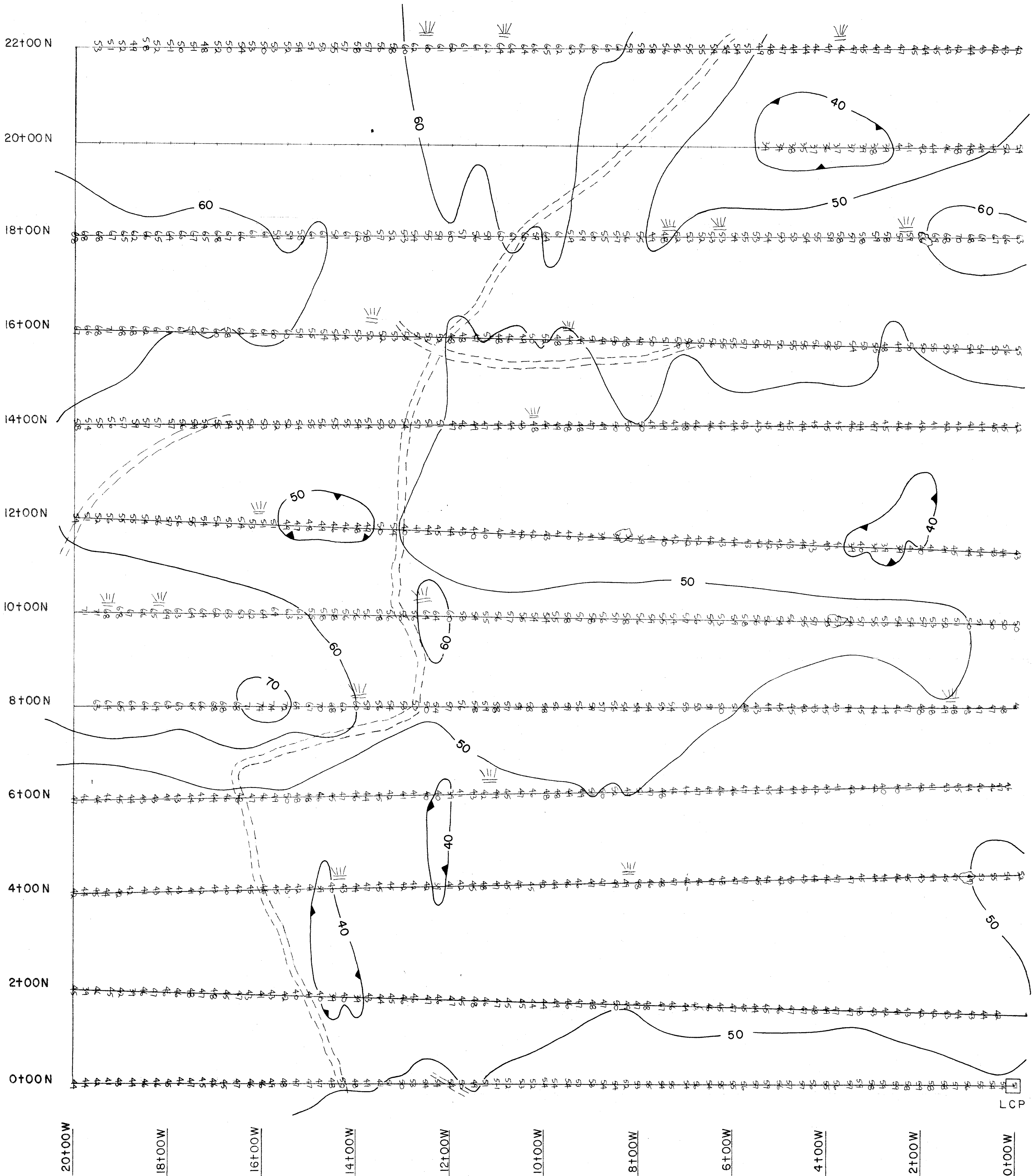


FIG. NO. 6

MINERAL SURVEY OF CANADA
9871
 Part 1 of 2

NOTE: CONTOUR INTERVAL = 10%

R.J. Englund
 12 Feb 1982

ANGELO TOSI
 MB 4 CLAIM
 SKEENA MINING DIVISION
 VLF ELECTROMAGNETIC SURVEY
 FIELD STRENGTH CONTOUR MAP

50 0 100 200
 SCALE IN METERS

TO ACCOMPANY A REPORT BY R.J. ENGLUND

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