

PHOENIX GEOPHYSICS LIMITED

REPORT ON THE

VLF-EM AND TOTAL FIELD MAGNETOMETER SURVEYS

ON THE

TAN CLAIMS, CHILLIWACK AREA  
NEW WESTMINSTER MINING DIVISION, BRITISH COLUMBIA

FOR

LORNE MINING CORPORATION LIMITED

N.T.S. 92H/4C

Latitude: 49°01'N

Longitude: 121°47'W

BY

F. DiSpirito, B.A.Sc., P.Eng.

P.A. Cartwright, B.Sc.

12 November 1981

MINERAL RECONSTRUCTION BRANCH

ASSESSMENT REPORT

10,090  
No.

Part 1  
of 2

TABLE OF CONTENTS

PAGE

PART A: Report

1. INTRODUCTION . . . . .	1
2. DESCRIPTION OF CLAIMS . . . . .	2
3. PRESENTATION OF RESULTS . . . . .	2
4. DISCUSSION OF RESULTS . . . . .	2
5. CONCLUSIONS AND RECOMMENDATIONS . . . . .	3
6. ASSESSMENT DETAILS . . . . .	5
7. STATEMENT OF COST . . . . .	6
8. CERTIFICATE, Frank DiSpirito . . . . .	7
9. CERTIFICATE, Paul A. Cartwright . . . . .	8
10. CERTIFICATE, D. Labrecque . . . . .	9

PART B: Illustrations

Plan Maps (in pockets)	Dwg. No. EM-B-4014 Dwg. No. M-B-4014
Location Map	Figure 1
Claims Map	Figure 2

1) INTRODUCTION

VLF-EM and total field magnetometer surveys have been carried out for Lornex Mining Corporation Limited on the Tan Claims, Chilliwack area, New Westminster Mining Division, British Columbia. The property is located at about 49°01' North latitude and 121°47' West longitude, approximately 13 kilometers south of Chilliwack (Figures 1 and 2).

Access to the Tan claims property is via a logging road that leaves Chilliwack Lake Road about 9 kilometers south of Highway 401.

The present surveys were conducted in order to further evaluate the area around an interesting showing of metallic mineralization. An IP and Resistivity survey had been conducted previously, and had detected several anomalous zones.

Field work was carried out in early August of 1981 using a Phoenix Model VLF-2 EM receiver to measure Dip Angle and Relative Field Strength. The VLF transmitter utilized is located at Annapolis, Maryland. Magnetic data was collected using a McPhar Model GP 70 Proton Magnetometer. Diurnal magnetic corrections were made using a Phoenix Model MV-1 Recording Base Station reading to  $\pm 10$  gammas.

Field work was carried under the supervision of D. Labrecque and P. Cartwright.

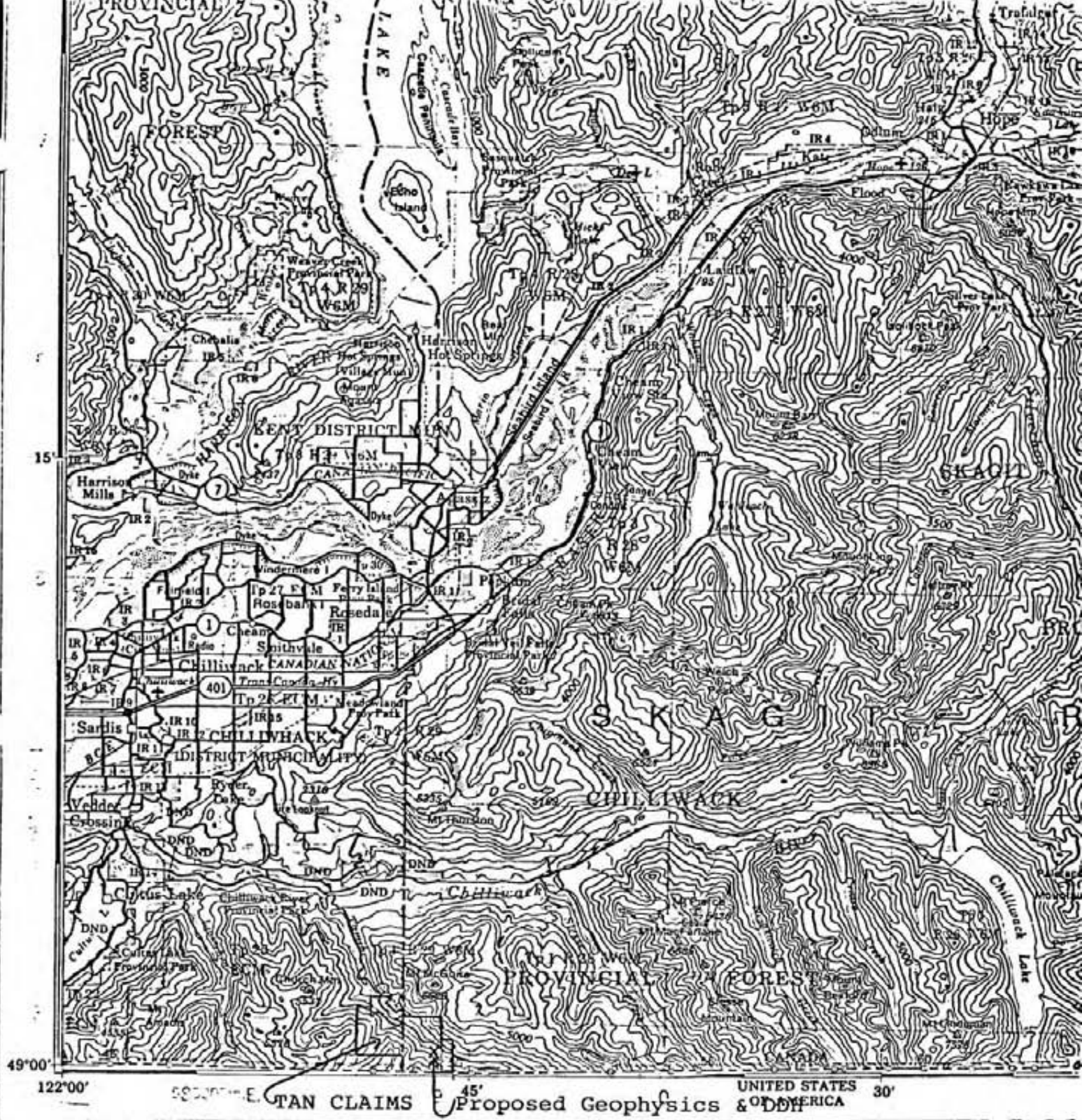
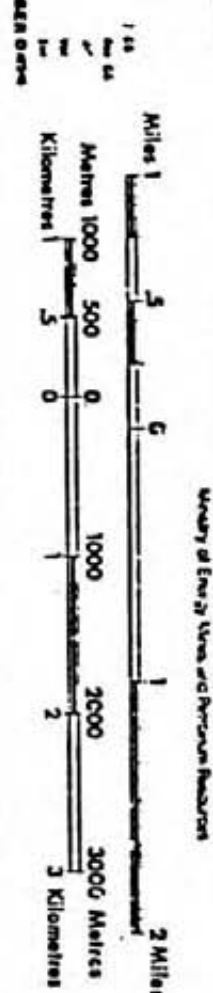
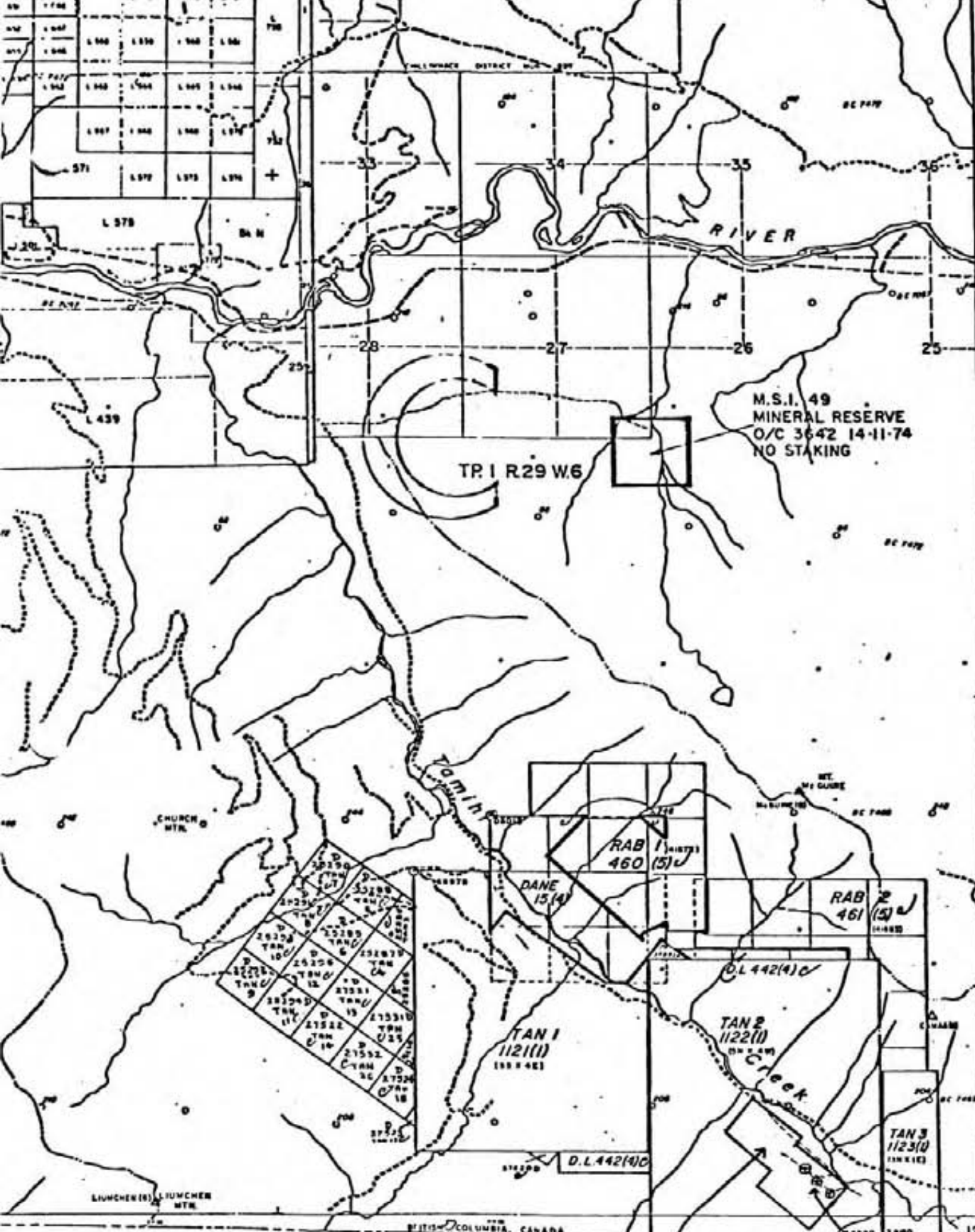


Figure 1



UNLESS VERIFIED ON SURVEYED, THE MAP POSITION OF A LEGAL CORNER POST IS BASED ON THE LOCATOR'S SKETCH, FROM WHICH THIS INFORMATION, APPLY TO THE OFFICE OF THE MINING DIVISION CONCERNED.

DATE OF MICROFILM: 8/1. 04. 50

**TITLES REFERENCE MAP 92H/4W**  
**OF MINES AND PETROLEUM RESOURCES VICTORIA, B.C.**

This is a guide only to the location of mineral claims that have not been surveyed. Where the location of a claim has been surveyed it is indicated with a circled number.

Proposed Geophysics on existing grid.

Proposed Diamond Drill Locations

Figure 2

caused by a very shallow source. A fault could be the cause as the above location is coincident with a steep, cliff-like outcrop.

VLF-EM

A weak anomalous zone has been outlined by the VLF-EM data. This zone, marked as possible on Dwg. No. EM-B-4014, trends roughly east-west and extends from at least Line 5S to at least Line 10S. The zone may possibly extend further east and west. The source of the anomalous VLF-EM zone is most likely shallow (less than 100 feet); however, the low conductivity-thickness of the source does not allow for more than a very rough estimate.

5) CONCLUSIONS AND RECOMMENDATIONS

A VLF-EM and Total Field Magnetometer survey have been completed on the Tan Claims.

The magnetic data collected on the Tan Claims does not appear to outline any specific rock types. A shallow narrow magnetic anomaly is apparent on Line 9S at Station 1 + 25E, and may indicate the presence of a fault structure.

A weakly anomalous east-west trending VLF-EM zone has been outlined by the data. The depth to the source of this zone has been roughly estimated to be less than 100 feet.

It is the author's understanding that an Induced Polarization and Resistivity survey has already been conducted on the Tan Claims grid. Therefore, no further geophysical work is recommended at this time.

2) DESCRIPTION OF CLAIMS

The Tan Claims group are owned and operated by Lornex Mining Corporation and consist of the following claims:

<u>CLAIM</u>	<u>UNITS</u>	<u>RECORD NO.</u>	<u>RECORD DATE</u>	<u>EXPIRY DATE</u>
Tan 1	20	1121	6 January 1981	6 January 1983
Tan 2	20	1122	6 January 1981	6 January 1983
Tan 3	3	1123	6 January 1981	6 January 1983
Dane 1	9	15	25 April 1975	25 April 1982

3) PRESENTATION OF RESULTS

The VLF-EM results are shown on Dwg. No. EM-B-4014, a plan map of the Tan Claims grid at a scale of 1" = 200'. The definite, probable and possible VLF-EM anomalies are indicated by circles in the manner shown on the legend. Also enclosed with this report is Dwg. No. M-B-4014, another plan map of the Tan claims grid at a scale of 1" = 200', with the contoured and corrected magnetic measurements.

The grid information shown on Dwg. Nos. -EM-B-4014 and M-B-4014 has been taken from maps made available by the staff of Lornex Mining Corporation Limited.

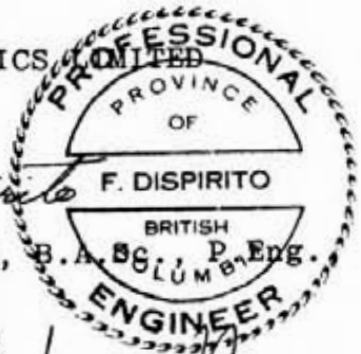
4) DISCUSSION OF RESULTS

Total Field Magnetometer

The rocks underlying the surveyed grid do not give rise to a characteristic magnetic signature. The only variation in the contoured magnetic values appears in the southwest corner of the grid where a narrow magnetic low is evident. This magnetic low is centered on Line 9S at Station 1 + 25E and is obviously

PHOENIX GEOPHYSICS LIMITED

*Frank Di'Spirito*  
Frank DiSpirito,  
Geophysicist.



*Paul A. Cartwright*

Paul A. Cartwright, B.Sc.,  
Geophysicist.

DATED: 12 November 1981





STATEMENT OF COST

LORNEX MINING CORPORATION LIMITED  
VLF-EM AND MAGNETOMETER SURVEYS  
TAN Claims, New Westminster M.D.,  
British Columbia

---

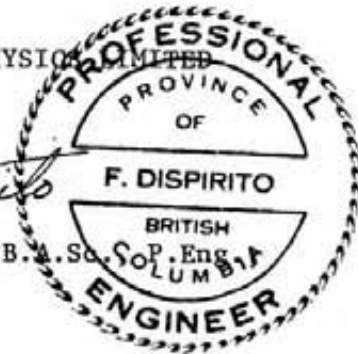
PERIOD: 3 August 1981, 9-10 August 1981

CREW: D. Labrecque - G. Montpetit  
P. Cartwright - R. Wartnow

2 days operating @ \$725.00/day	\$ 1,450.00
1 day travel @ 425.00/day	425.00
Magnetometer Base Station - 3 days @ \$20.00/day	<u>60.00</u>
	<u>\$ 1,935.00</u>

PHOENIX GEOPHYSICAL LIMITED

*F. Di Spirito*  
F. Di Spirito, B.S.  
Geophysicist.



DATED: 12 November 1981

CERTIFICATE

I, Frank DiSpirito, of the City of Vancouver,  
Province of British Columbia, do hereby certify that:

- (1) I am a geophysicist residing at 2748 Oxford Street,  
Vancouver, B.C.
- (2) I am a graduate of the University of British Columbia,  
with a B.A.Sc. Degree in Geological Engineering.
- (3) I am a Professional Engineer registered in the  
Province of British Columbia.
- (4) I have been practising my profession for 7 years.
- (5) I have no direct or indirect interest, nor do I expect  
to receive any interest directly or indirectly, in the  
property or securities of Lornex Mining Corporation  
Limited or any affiliate.
- (6) The statements made in this report are based on a  
study of published geological literature and un-  
published private reports.
- (7) Permission is granted to use in whole or in part for  
assessment and qualification requirements but not for  
advertising purposes.

DATED AT VANCOUVER, B.C.

this 12th day of November 1981.

*Frank DiSpirito*  
Frank DiSpirito, P.Eng.



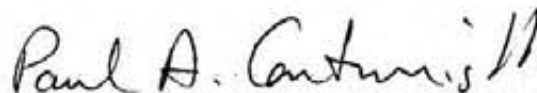
CERTIFICATE

I, Paul A. Cartwright, of the City of Vancouver,  
Province of British Columbia, do hereby certify that:

1. I am a geophysicist residing at 4238 W. 11th Avenue,  
Vancouver, B.C.
2. I am a graduate of the University of British Columbia,  
Vancouver, B.C., with a B.Sc. Degree.
3. I am a member of the Society of Exploration Geophysicists  
and European Association of Exploration Geophysicists.
4. I have been practising my profession for 11 years.
5. I have no direct or indirect interest, nor do I expect  
to receive any interest directly or indirectly, in  
the property or securities of Lornex Mining Corporation  
Limited or any affiliate.
6. The statements made in this report are based on a study  
of published geological literature and unpublished  
private reports.
7. Permission is granted to use in whole or in part for  
assessment and qualification requirements but not for  
advertising purposes.

DATED AT VANCOUVER, B.C.

this 12th day of November 1981.



---

Paul A. Cartwright, B.Sc.

CERTIFICATE

I, Doris Labrecque, of the City of Rouyn, Province of Quebec, do hereby certify that:

1. I am a geophysical crew leader residing at 524 Rue Taschereau, Rouyn, P.Q.
2. I have been practising my vocation about four years.
3. I am presently employed as a geophysical crew leader by Phoenix Geophysics Limited, of 200 Yorkland Blvd., Willowdale, Ontario.

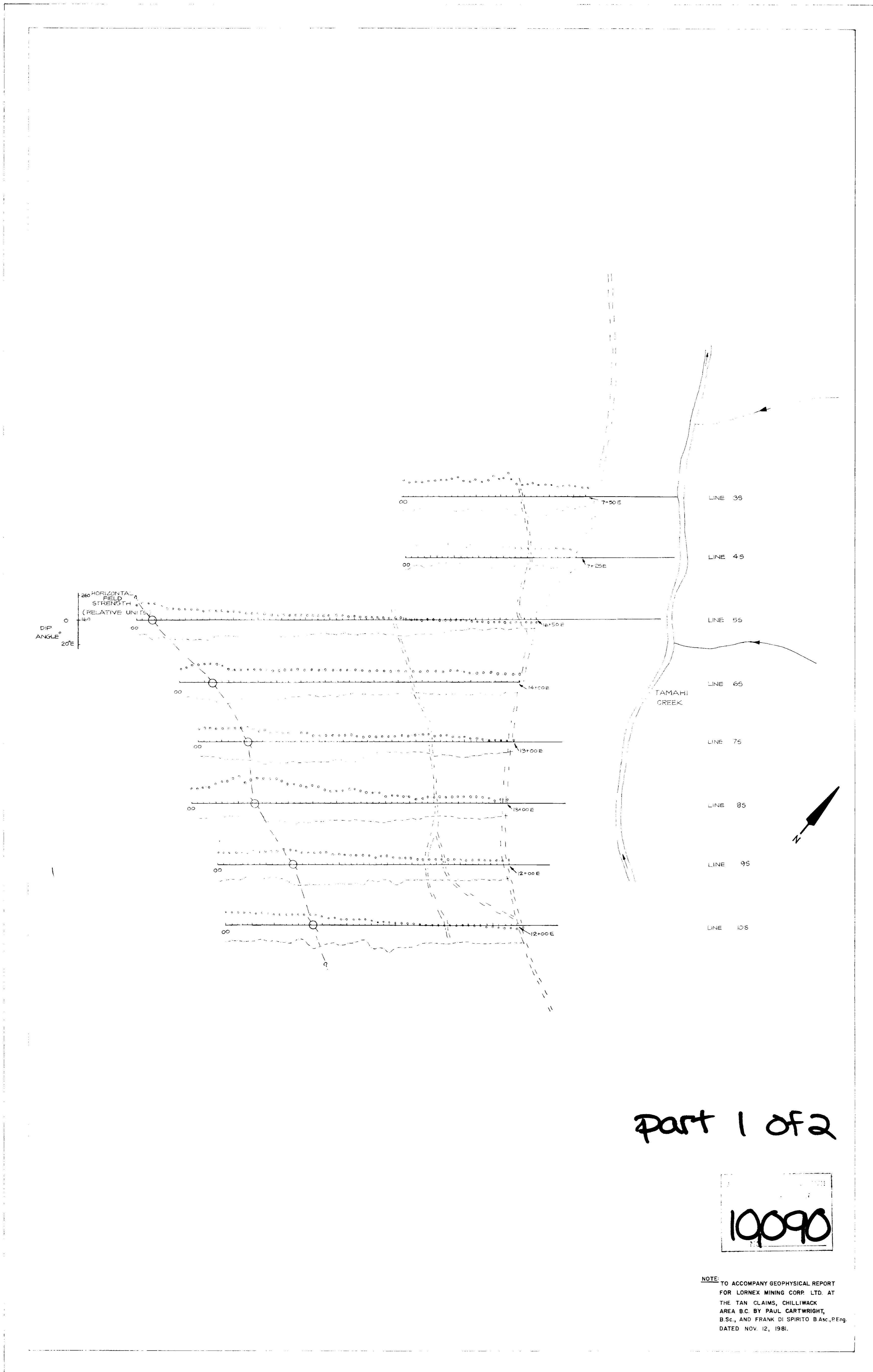
---

Doris Labrecque

DATED AT VANCOUVER, B.C.  
this 12th day of November 1981.

PHOENIX GEOPHYSICS LIMITED

VLF ELECTROMAGNETIC SURVEY  
PLAN MAP



part 1 of 2

10090

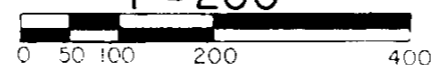
NOTE: TO ACCOMPANY GEOPHYSICAL REPORT FOR LORNE X MINING CORP. LTD. AT THE TAN CLAIMS, CHILLIWACK AREA B.C. BY PAUL CARTWRIGHT, B.Sc., AND FRANK DI SPIRITO B.Asc., P.Eng. DATED NOV. 12, 1981.

CONDUCTOR SYMBOLS  
ANNAPOLIS Tx  
DEFINITE ●  
PROBABLE ●  
POSSIBLE ○

LORNE X MINING CORPORATION LIMITED

TAN CLAIMS  
CHILLIWACK, B.C.

SCALE  
1" = 200'



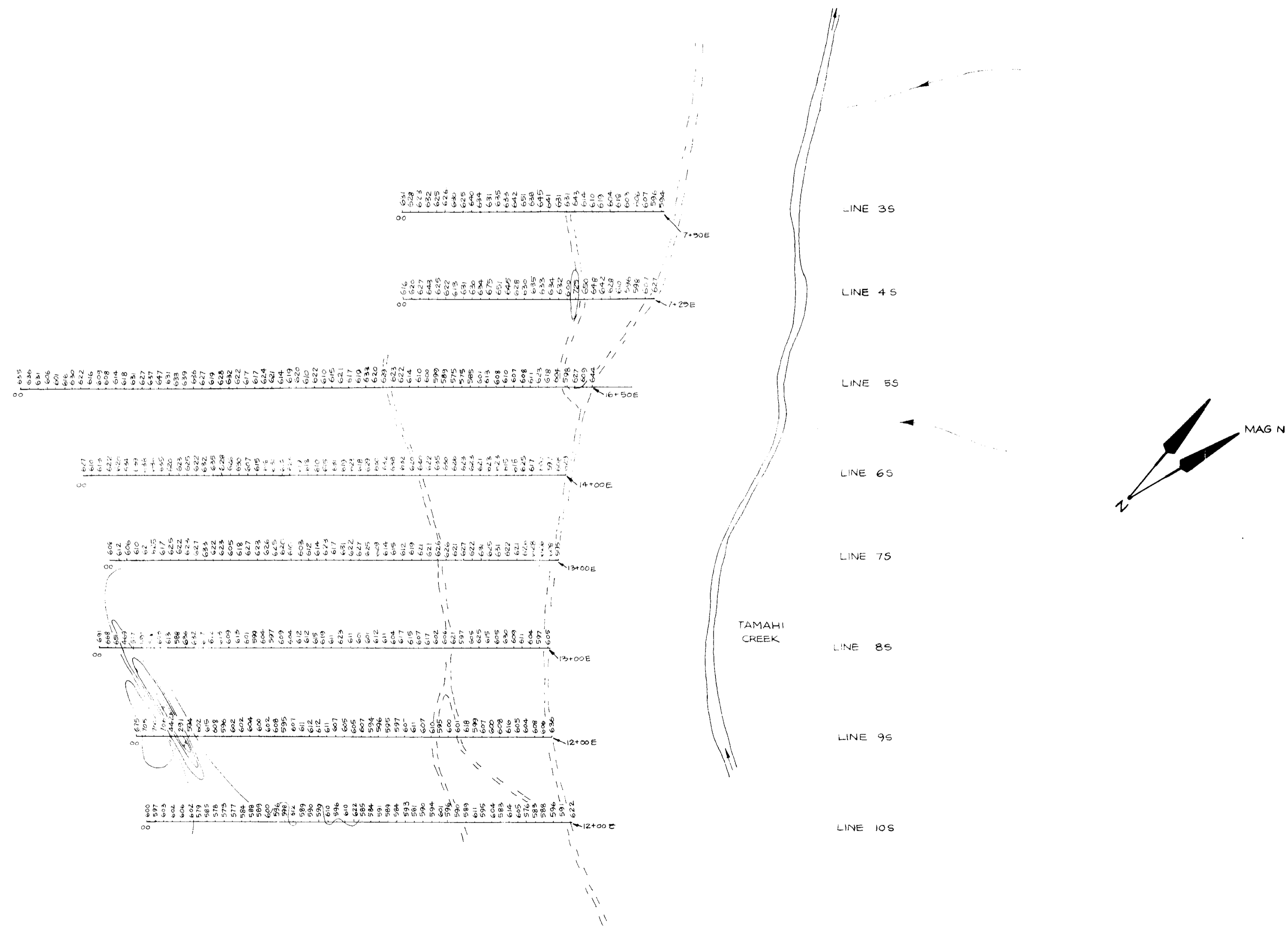
PROPER X-OVER   
DIP ANGLE   
RELATIVE FIELD STRENGTH

DRAWN: R.G.W.  
DATE: AUG. 18, 1981  
APPROVED: *FD*  
DATE: Nov. 9/81

PHOENIX GEOPHYSICS LIMITED

TOTAL FIELD MAGNETOMETER SURVEY

PLAN MAP



part 1 of 2

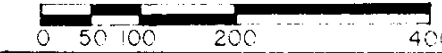
NOTE  
TO ACCOMPANY GEOPHYSICAL REPORT  
FOR LORNE MINING CORP. LTD. AT  
THE TAN CLAIMS, CHILLIWACK  
AREA B.C. BY PAUL CARTWRIGHT B.Sc.,  
AND FRANK DI SPIRITO, B.A.Sc., P.Eng.  
DATED NOV. 12, 1981

LORNE MINING CORPORATION LIMITED

TAN CLAIMS  
CHILLIWACK, B.C.

SCALE

1" = 200'



ACTUAL VALUES = PLOTTED VALUE + 56,000 GAMMAS

CONTOUR INTERVAL = 100 GAMMAS

10,090  
N

DRAWN: R.G.W.  
DATE: AUG. 19, 1981

APPROVED: [Signature]

DATE: Nov 3, 81