

GEOPHYSICAL REPORT

PRINCE CLAIMS

SHEET 105-D-11

D. Tenney

June 1971

This report has been examined by the Geological Exploration Unit and is recommended to the Commissioner to be considered as representing a value of

\$2166.00

*D.B. Craig*

Geologist or  
Professional Engineer

Considered or representation work under  
Section 53 (a) Nation Quartz Mining Act.

*[Signature]*

Commissioner of Natural Resources

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4. Results
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## ATTACHED MAPS

- A) 1" = 1/2 mile Claim Location Map
- B) 1" = 200' Chargeability Contour Map
- C) 1" = 200' Chargeability and Resistivity Profiles

## APPENDIX

Sue - Snell Claims

Best Chance Grid Line 96+00S

## 1. Introduction

Weak induced polarization anomalies under McIntyre Creek found during reconnaissance work in 1968 were rechecked by Spartan Aero on lines at 200 intervals. A diorite sediments contact is thought to exist in this area.

## 2. Access

Access is from the Fish Lake road and the War Eagle haulage road. The lines surveyed are on the Best Chance grid.

## 3. Method of Survey

Time domain induced polarization equipment was used with a 3 electrode array, and electrode spreads of 50, 100, 200 and 400 feet. The first two separations were used for detail work and the two larger separations for reconnaissance.

The equipment comprised a transmitter, a modified Sharp MKV unit, and a receiver of the "Newmont Type", built by Data Control Systems. Results for each station and each electrode spread are recorded in milliseconds and a corresponding resistivity is also calculated.

## 4. Results

The survey failed to confirm the presence of any significantly anomalous chargeability areas, though the possibility of conductive overburden masking deeper features should not be overlooked.

## 5. Recommendations

In view of the comments under 4. above the weak chargeability reading of 18 milliseconds on line 48 south at 15 east could be considered a drill target.

## 6. Assessment Claimed

Work was done on claims Prince 5-8 (75754-60), Prince 11F-12F (Y-29686-87).

Lines 2.16 miles @ \$100/mile = \$ 216.

I.P. 3.9 miles @ \$500/mile = \$1,950.

Total = \$2,166.

The above claims are owned by Whitehorse Copper Mines.

7. Field Crew

K. Hendry, I.P. Operator, c/o Spartan Aero, Ottawa

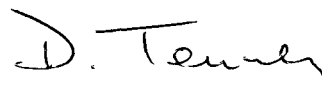
T. Birkett, c/o New Imperial Mines, Whitehorse

A. Van Oeveren, Whitehorse

A. Mitchell, Whitehorse

A. Hureau, Whitehorse

D. Tenney, Whitehorse



D. Tenney  
B.Sc., D.I.C., A.M.I.M.M.

DT/ja

APPENDIX - PRINCE CLAIMS

GEOPHYSICAL REPORT ON SUE - SNELL GROUP

Introduction

Induced polarization using the same field crew and the same apparatus was carried out on line 96+00 south of the Best Chance grid, on claims Snell 3, 5, 6 and 16 FR, and Sue 12.

Results

Are presented in profile form as only one line was tested (see attached 1" = 200' profiles). Line 96+00S has a weak chargeability feature at 30-36E of 10-12 milliseconds. This feature coincides with a resistivity high of 500-700 ohm-metres which indicates a rock change to a type with a higher metallic sulphide or graphite content, although it is still relatively low. This weak anomaly falls in a magnetic low and is not caused by magnetite.

No drilling is thought necessary, though the section of line under McIntyre Creek should be covered at some future date.

Assessment Claimed

1.28 miles I.P. @ 500 dollars/line mile = \$643.

*D. Tenney*

D. Tenney  
B.Sc., D.I.C., A.M.I.M.M.

December 28th, 1971

# Whitehorse Copper Mines Ltd.

P.O. Box 4280, Whitehorse, Yukon Territory, Canada  
telephone (403) 668-2171      telex 049-8218

January 11th, 1972

THIS IS TO CERTIFY THAT

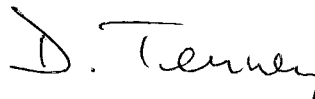
I, David Tenney, am resident at 8 McQuesten Road,  
Whitehorse, Yukon Territory

I am an Associate Member of the Institute of Mining and  
Metallurgy, London, England, and have been practicing as a mining  
and exploration geologist for nine years.

My academic qualifications comprise the degree of B.Sc.  
in geology from the University of Leicester, England, and a diploma  
in mineral exploration (D.I.C. Min Ex.) from the Royal School of  
Mines, London.

This certificate is related to geophysical work carried out  
from June 16th to July 23rd, 1971, on the property of New Imperial  
Mines Ltd. (subsequently renamed Whitehorse Copper Mines Ltd.).

I personally directed the work described in this report,  
and also wrote the report.



D. Tenney, B.Sc. D.I.C.  
Chief Geologist  
Whitehorse Copper Mines Ltd.

DT/ja

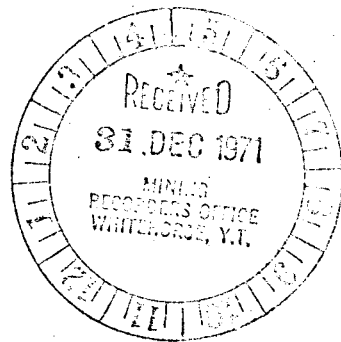


Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



OFFICE DATE STAMP

I (Name)	David Tenney	Occupation	Geologist
(Postal Address)	8 McQuesten Rd., Whitehorse, Y. T.		

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

- 75754 Prince 5                    Y-29636 Prince 11 FR
- 75759 Prince 6                    Y-29637 Prince 12 FR
- 75755 Prince 7
- 75760 Prince 8

situated at Whitehorse, Y. T. Claim Sheet No. 105-D-11

in the Whitehorse, Y. T. Mining District, to the value of at least \$2,166.

dollars, since the First day of January day of 1971

to represent the following mineral claims under the authority of Grouping Certificate No. \_\_\_\_\_

(Here list claims to be renewed in numerical order, by number and name, showing renewal period requested).

- Y-524 63 Mac 9 FR
- 64 Mac 10 FR
- 65 Mac 11 FR
- 66 Mac 12 FR
- 67 Mac 13 FR
- 68 Mac 14 FR
- 71 Mac 18 FR.
- 72 Mac 19 FR

Four years on all claims @ \$200/claim = \$1,600.

17 June 72

*to bring to common anniversary date  
January 1<sup>st</sup> 1977*

3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

Lines	-	2.16 miles @ \$100/mile	=	\$216.00
I.P.	-	3.9 miles @ \$500/mile	=	\$1,950
				\$2,166.00

Sworn before me at Whitehorse, Y. T.

this 31 day of Dec 19 71

*[Signature]*  
Notary Public

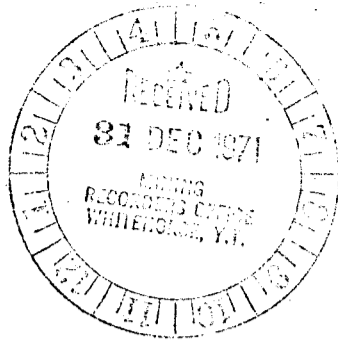
*[Signature]*  
D. Tenney, agent for Applicant.  
Whitehorse Copper Mines Ltd.



Department of Indian Affairs and Northern Development  
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



I (Name)	David Tenney	Occupation	Geologist
(Postal Address)	8 McQuesten Rd., Whitehorse, Y. T.		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

- 85069 Snell 3
- 85071 Snell 5
- 85072 Snell 6
- Y-29684 Snell 16 FR
- 75720 Sue 12

situated at Whitehorse Claim Sheet No. 105-D-11

in the Whitehorse Mining District, to the value of at least \$643.

dollars, since the 22nd day of January 19 71

to represent the following mineral claims under the authority of Grouping Certificate No. \_\_\_\_\_

(Here list claims to be renewed in numerical order, by number and name, showing renewal period requested).

- Y-52415 Daily 3 FR
  - Y-52416 Daily 4 FR
  - Y-52469 Mac 16 FR
  - Y-52470 Mac 17 FR
- Three years on all claims @ \$50/yr./claim = \$600.  
R. 17 June 71

Being Mac 16 71 to common anniversary date  
of January 17 1975 Balance of claim to 17 June 1975

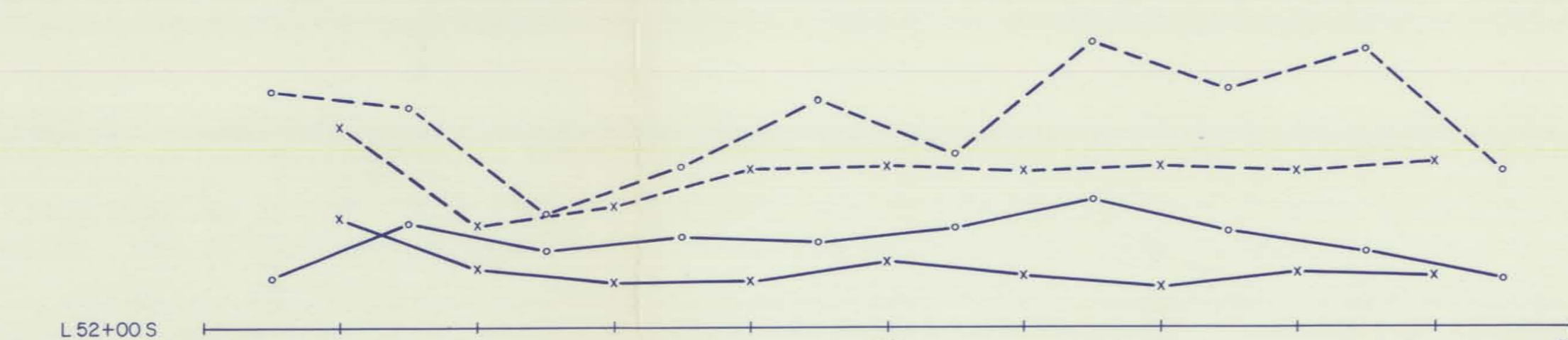
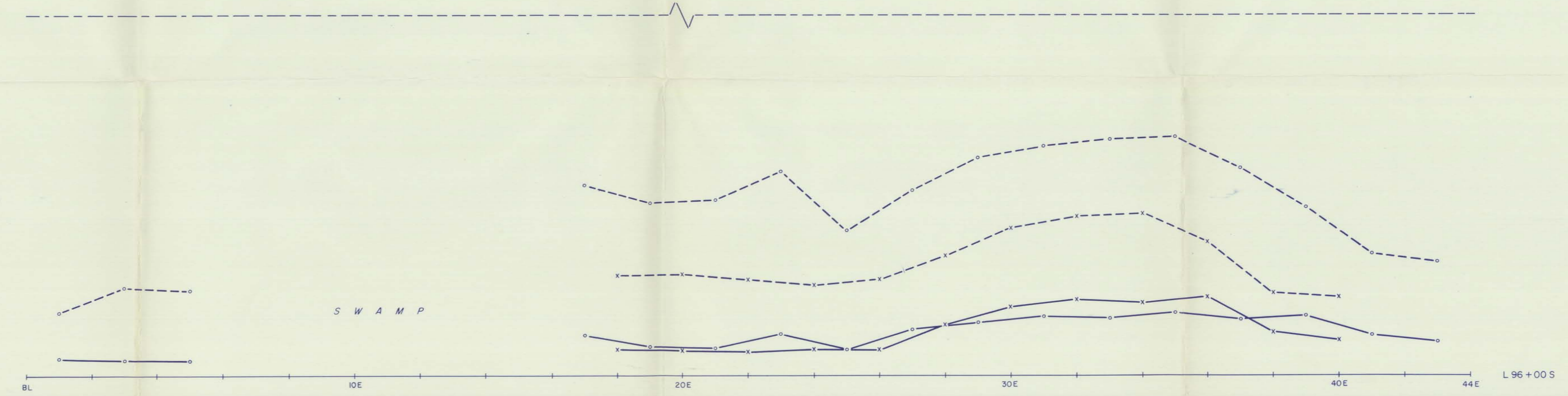
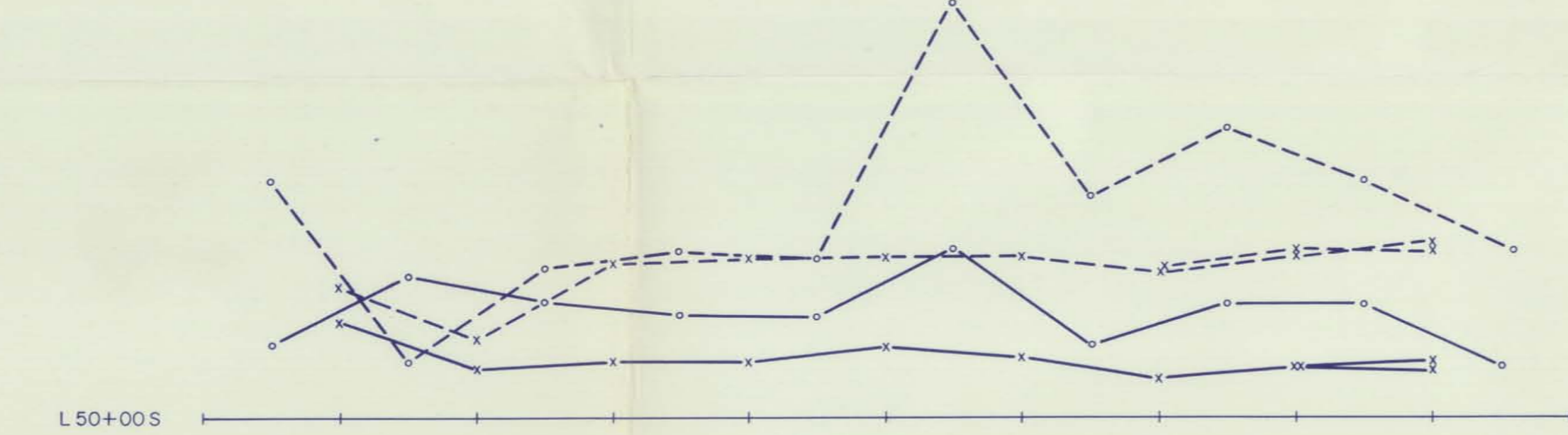
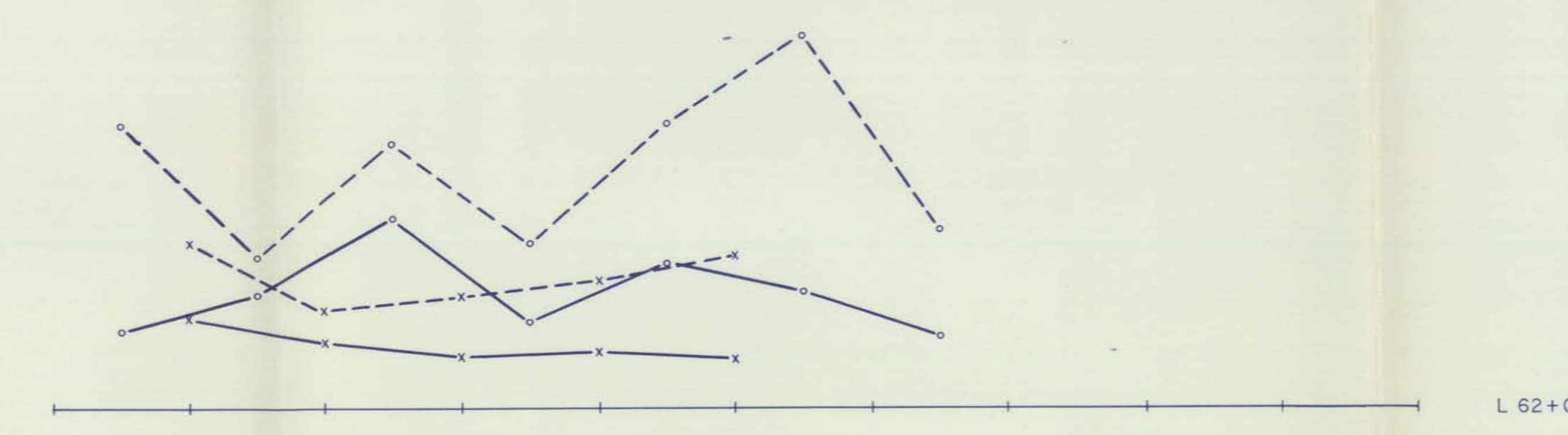
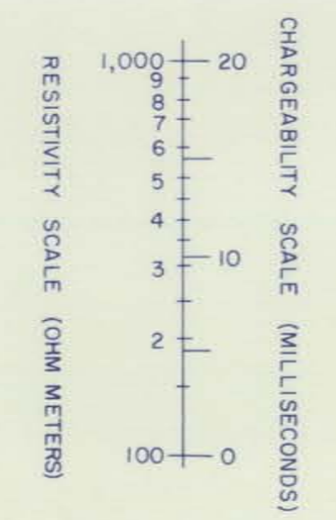
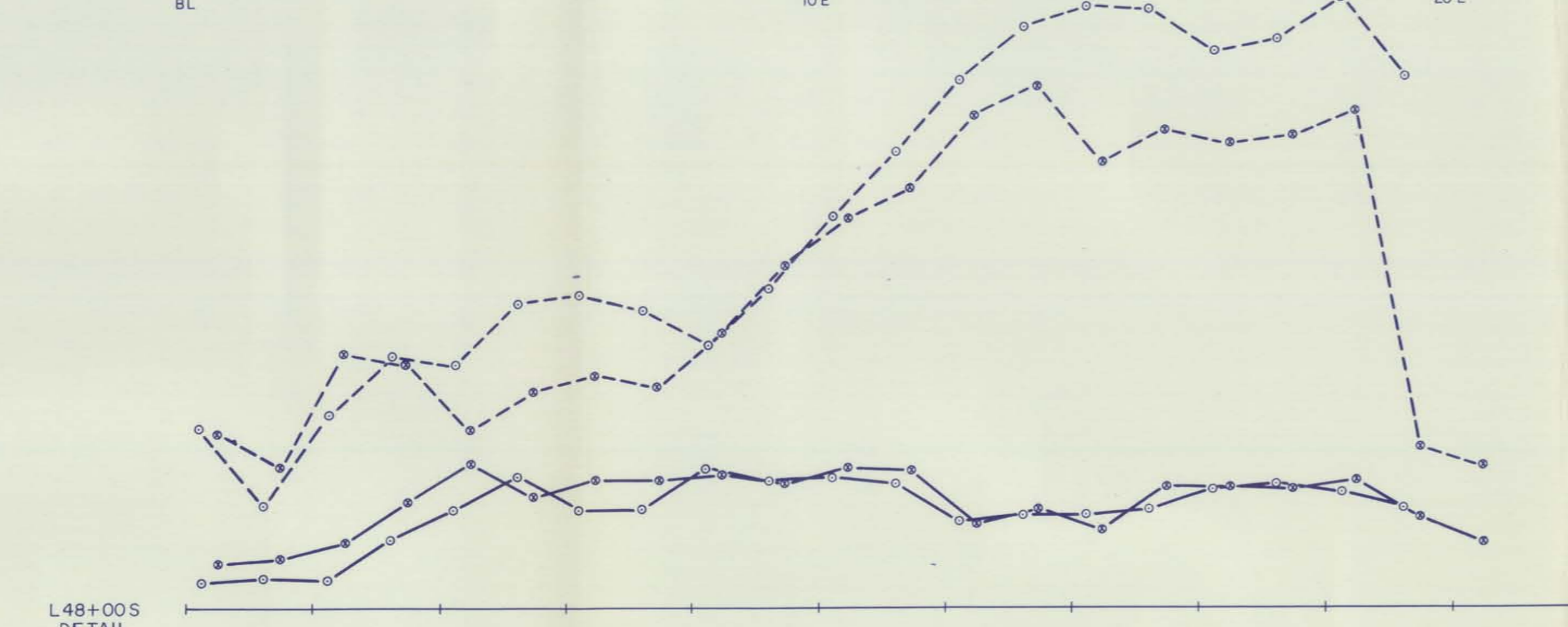
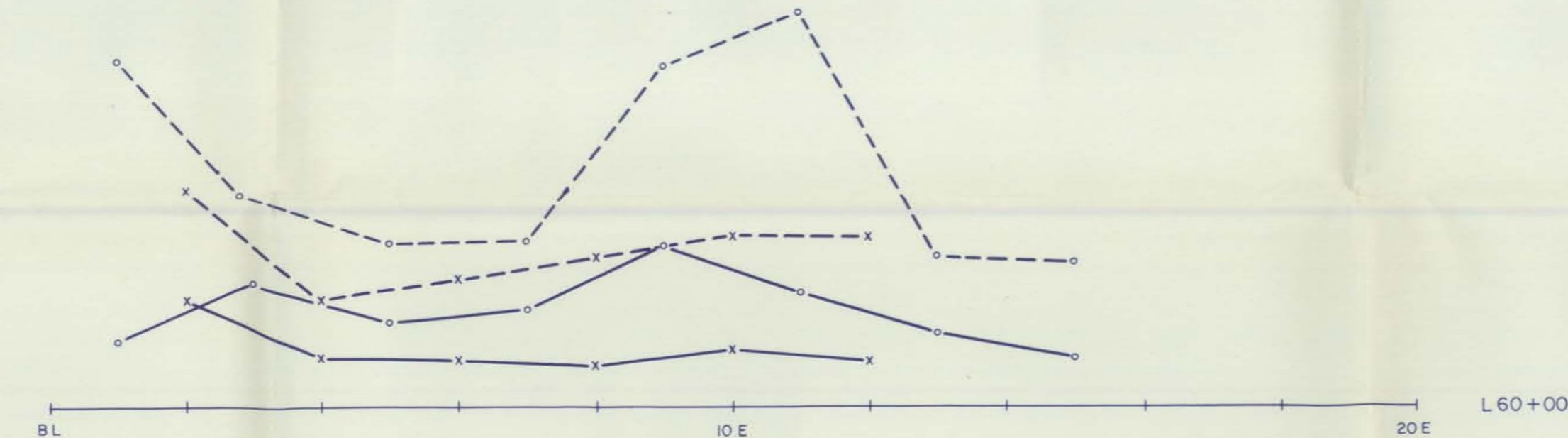
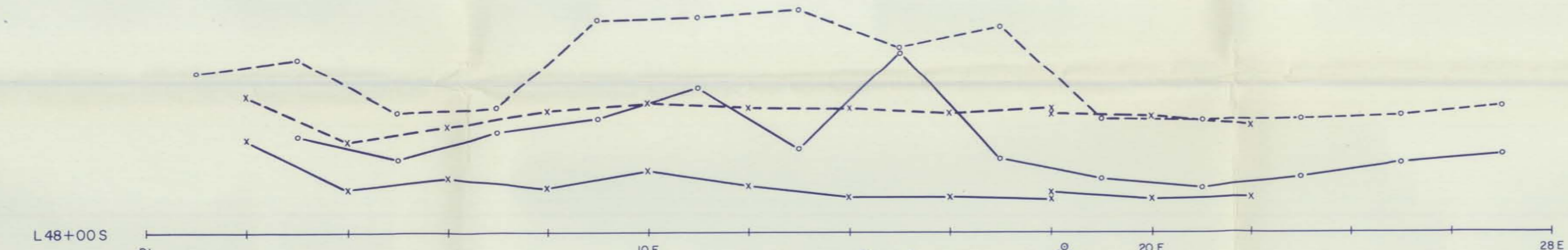
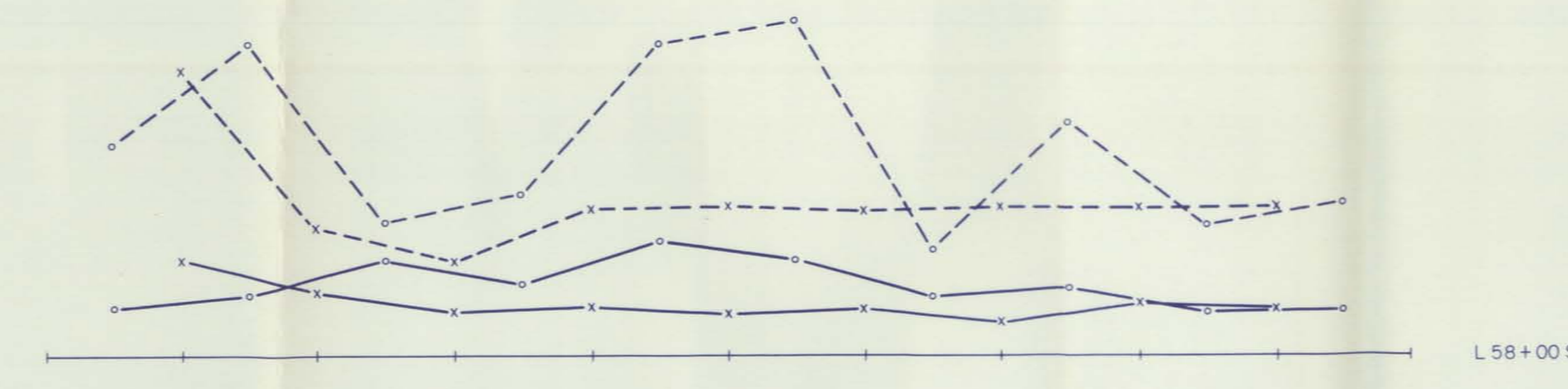
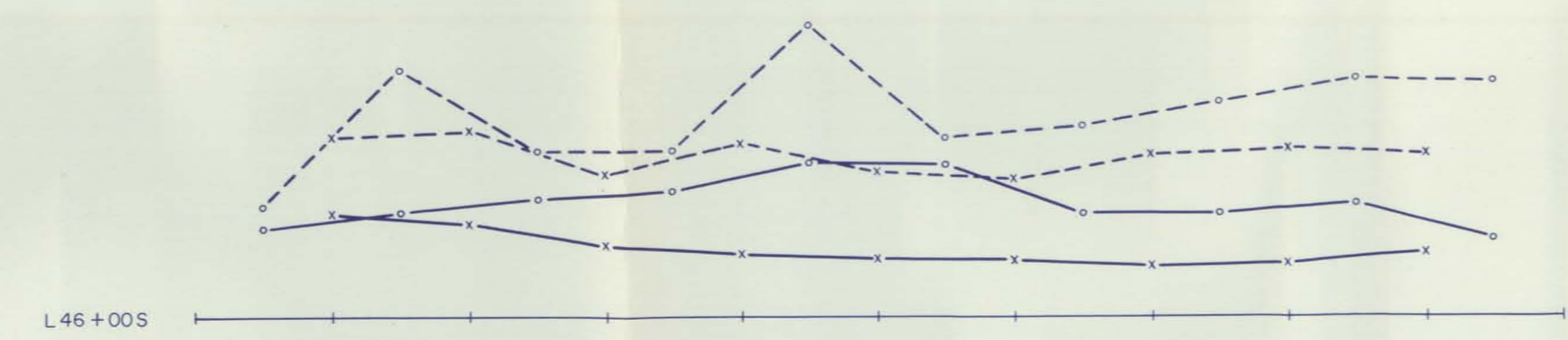
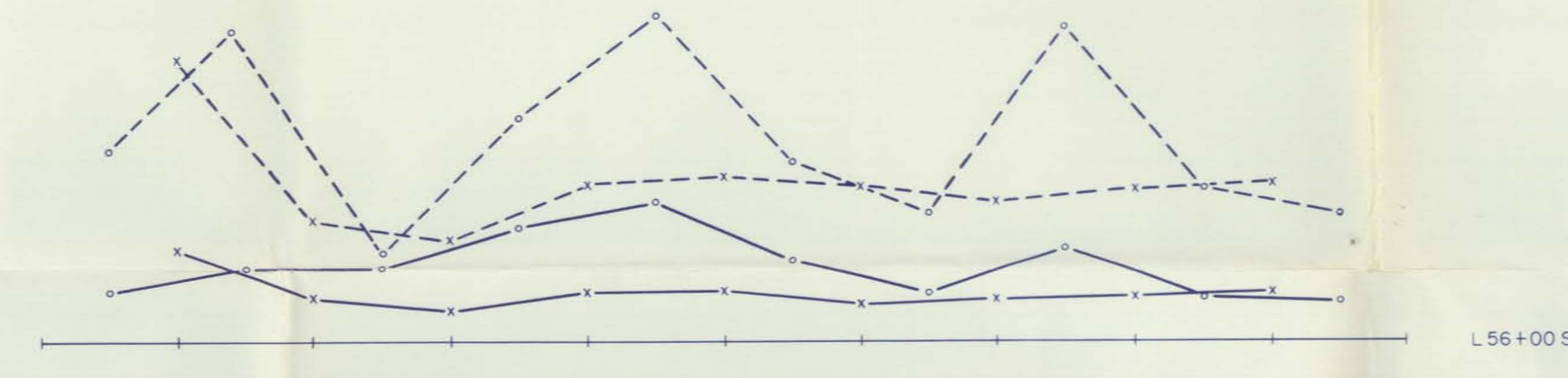
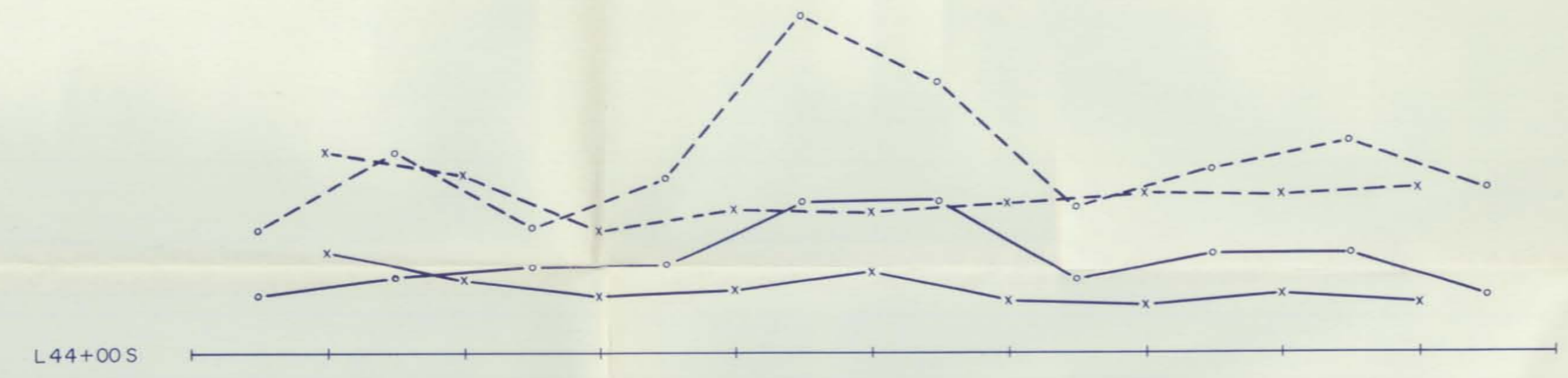
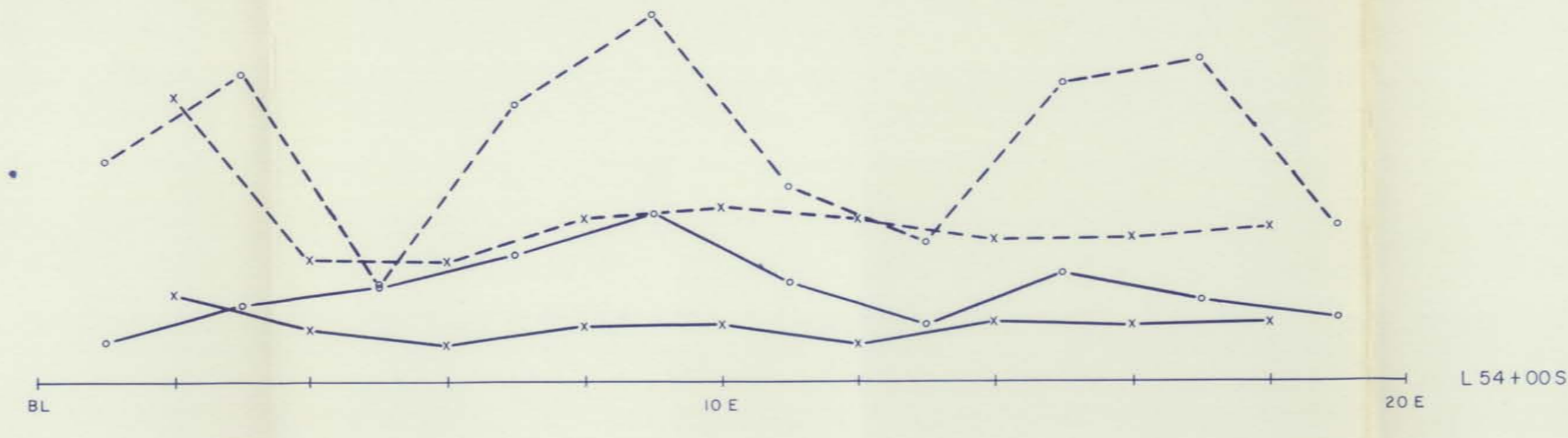
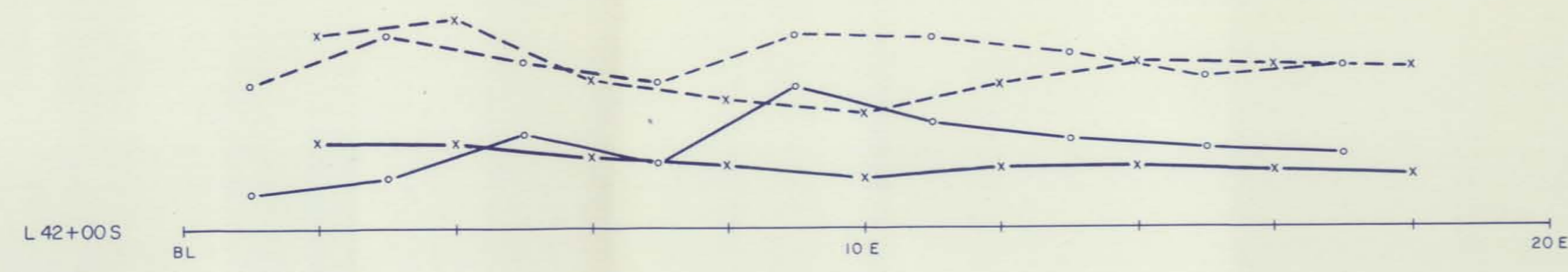
3. The following is a detailed statement of such work: (Set out full particulars of the work done in the twelve months in which such work is required to be done, as shown by Section 53.)

Induced Polarization 1.23 miles @ 500/mile = \$643.

Sworn before me at Whitehorse, Y. T.  
this DEC day of 19

[Signature]  
Notary Public

[Signature]  
D. Tenney, Agent for Applicant,  
Whitehorse Copper Mines Ltd.



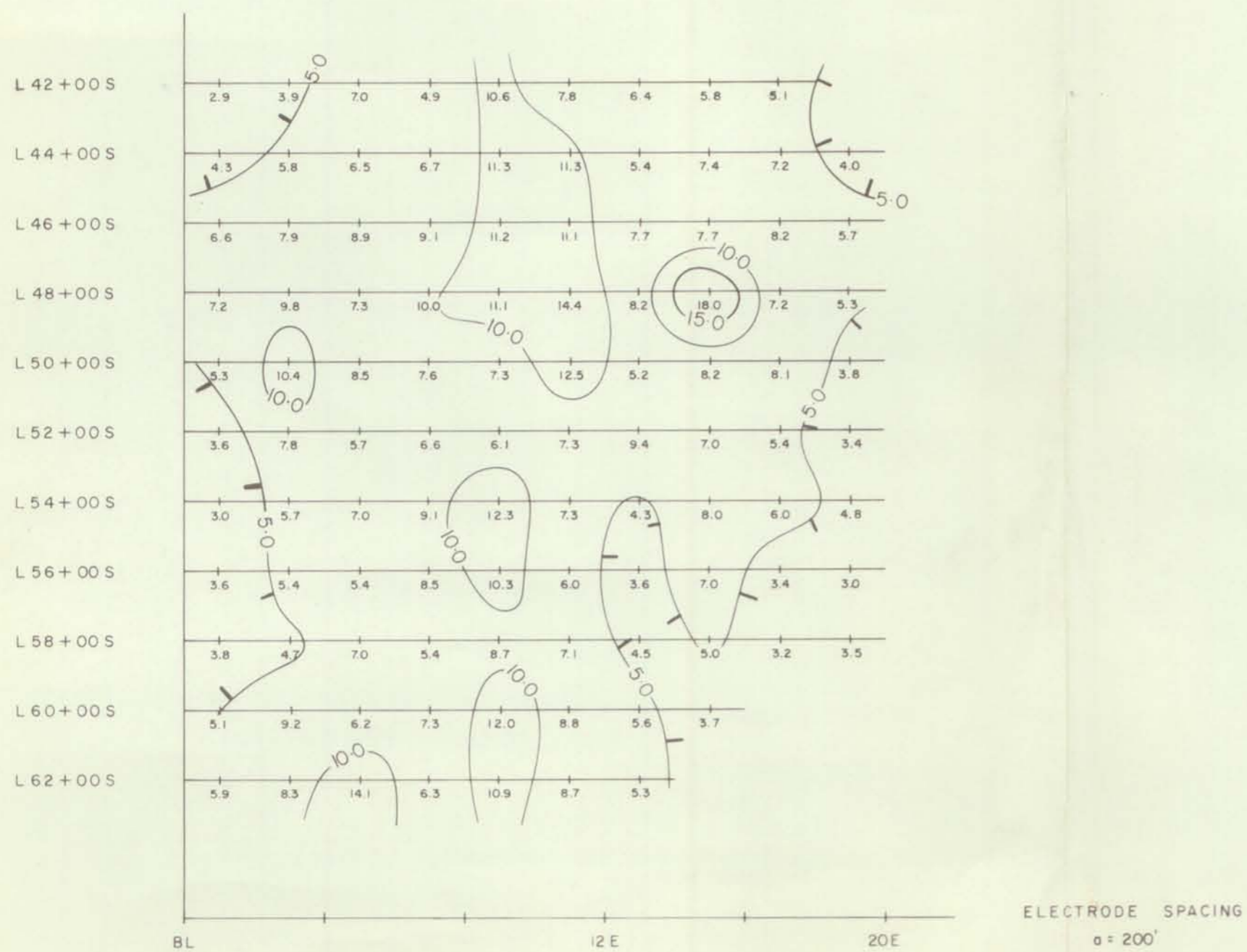
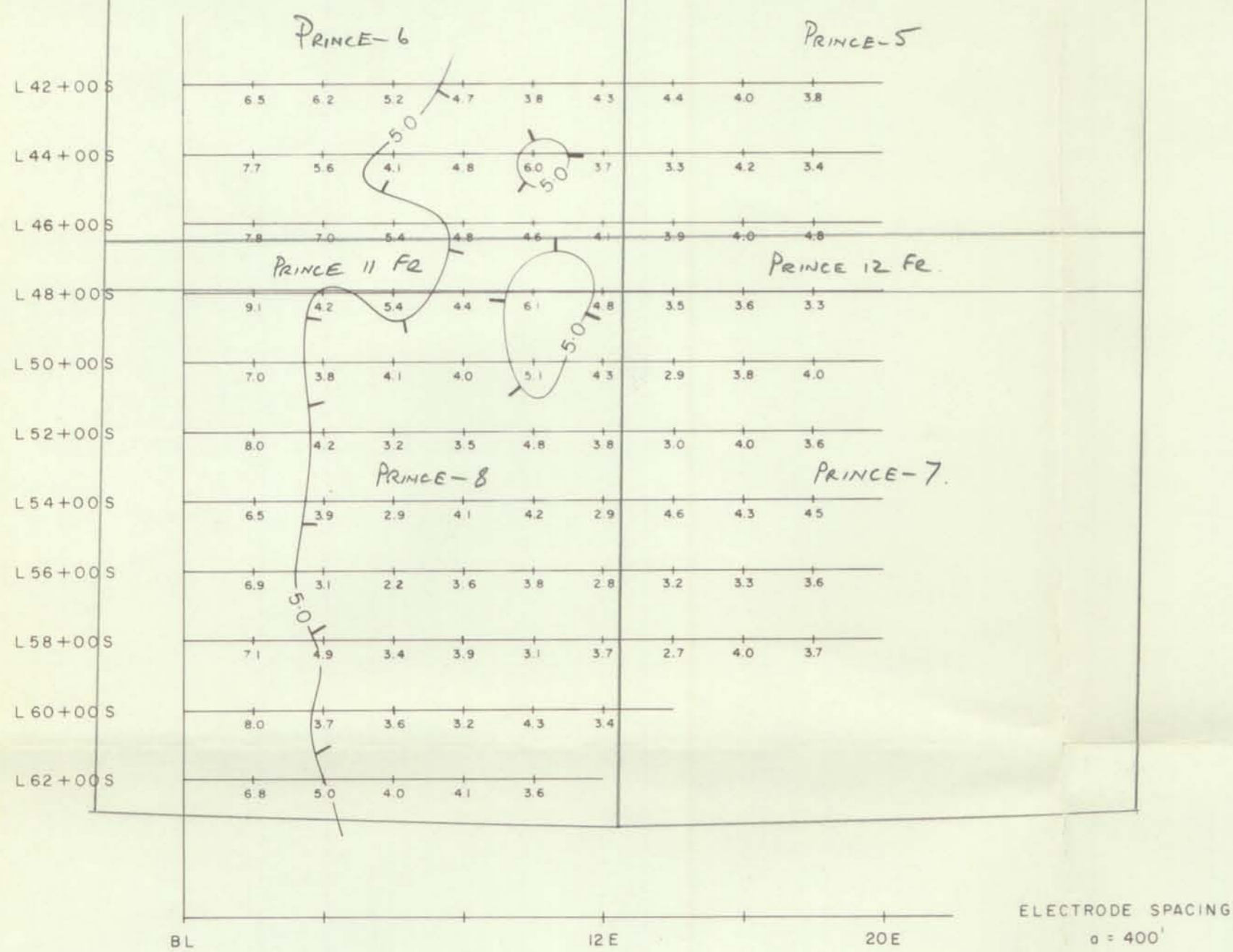
LEGEND  
 ELECTRODE CONFIGURATION ..... 3 ARRAY  
 ELECTRODE SPACING ..... AS SHOWN

CHARGEABILITY RESISTIVITY  
 ———— 200' ————  
 ———— 400' ————  
 ———— 50' ————  
 ———— 100' ————

APPARENT CHARGEABILITY ..... 1/10 MILLISECONDS  
 APPARENT RESISTIVITY ..... 2/1 CYCLE (100-1000am)  
 NOTE: LINES NOT SPACED TO SCALE



<b>NEW IMPERIAL MINES LTD.</b>		
WHITEHORSE Y.T.		
<b>BEST CHANCE GRID - PROFILE PRESENTATION</b>		
DR BY	APP'D BY	REVISIONS
DATE	SCALE 1" = 200'	
REF No.	DWG. No.	



ELECTRODE CONFIGURATION ..... 3 ARRAY  
 CONTOUR INTERVAL ..... 5.0 MILLISECONDS



NEW IMPERIAL MINES LTD.

WHITEHORSE Y.T.

BEST CHANCE GRID - CONTOUR PLAN (CHARGEABILITY)

DR BY ..... APP'D BY ..... REVISIONS

DATE ..... SCALE 1" = 400'