



## INTRODUCTION

A Turam electromagnetic survey was carried out for Cam Mines Limited on claims P-61016, P-61017, P-61019 and P-61018 in Lot 7, Con. V of Jessop Township, Ontario in August, 1964. The property is located 2 miles northwest of the Timmins Airport and is accessible by bush road.

The purpose of this survey was to locate sub-surface conductors which might prove to be sulphide bodies of economic importance.

No conductors were located. The accompanying map shows the results obtained and the area surveyed.

## METHOD AND INTERPRETATION OF RESULTS

This survey was carried out with the Turam method, an inductive electromagnetic method using a fixed primary source in the form of a large horizontal loop or long grounded cable, energized by an alternating current at 660 c.p.s. The receiving system consists of two coils 100 feet apart, connected to a compensator which measures field-strength ratios and phase differences in degrees between successive points on traverses outside and perpendicular to a long side of a rectangular loop or grounded cable. The presence of conductors is indicated by abnormal field-strength ratios and phase differences. Both the phase difference readings and the reduced field-strength ratios are plotted as curves at points mid-way between the coil positions. The reduced ratios are the measured ratios divided by the normal ratios. The normal ratios can be calculated from the geometry of the primary loop and from the location of the points at which the readings were taken in relationship to the loop or from the distance from a grounded

cable.

The relative amplitudes of the field-strength ratios and phase differences are a measure of the conductivity of the conducting bodies, i. e. the response of good conductors will show mainly field-strength ratio distortion, of poor conductors predominately phase distortion. A typical curve over a conductor shows field-strength ratio readings greater than unity together with negative phase readings.

Readings were taken along previously cut and chained lines 200 feet apart. Three primary loops were used, each 1500 feet deep and 2640 feet long.

#### RESULTS

No conductors were located. Minor scattered phase variations were recorded which are normally caused by conductivity in the overburden.

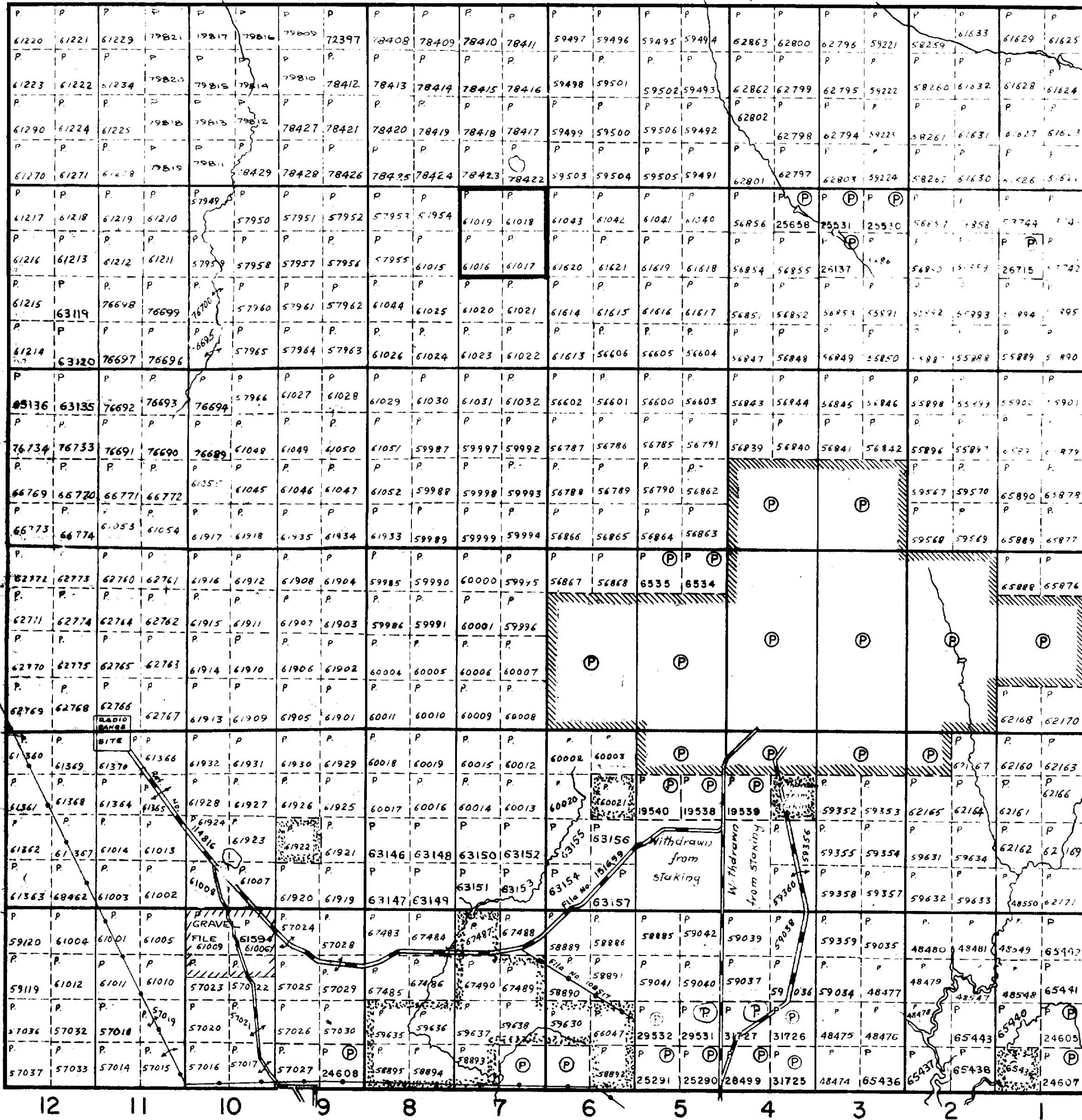
No work on the property can be recommended from the results of this survey.

MOREAU, WOODARD & COMPANY LTD.

JAW/jw

  
J. A. Woodard

Kidd Twp.



THE TOWNSHIP OF

JESSOP

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES

NOTES

- Lands Withdrawn From Mining Act For Airport Shown Thus:
- Surface Rights Only Withdrawn From Mining Act Lands Shown Thus:
- Gravel Reserve For S.W. pt. S 1/2 Eot 9 Con.
- 400' Surface rights reservation around all lakes & rivers.
- No disposition of sand & gravel from May 8 th, 1964 until further notice.

DATE OF ISSUE

APP. 15 1965

ONTARIO DEPT. OF MINES

ONT. DEPT. OF MINES  
MINING LANDS BR.  
THIS MAP FOR CHECKING PURPOSES ONLY - MUST NOT BE SOLD.

PLAN NO.-M.289

DEPARTMENT OF MINES

—ONTARIO—

Jameson Twp.

Murphy Twp.

VI

V

IV

III

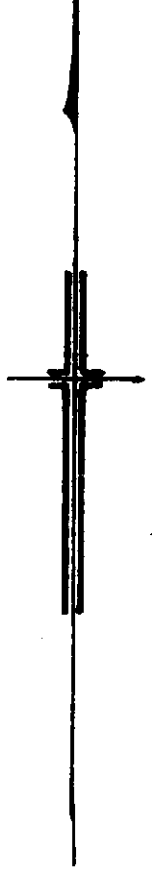
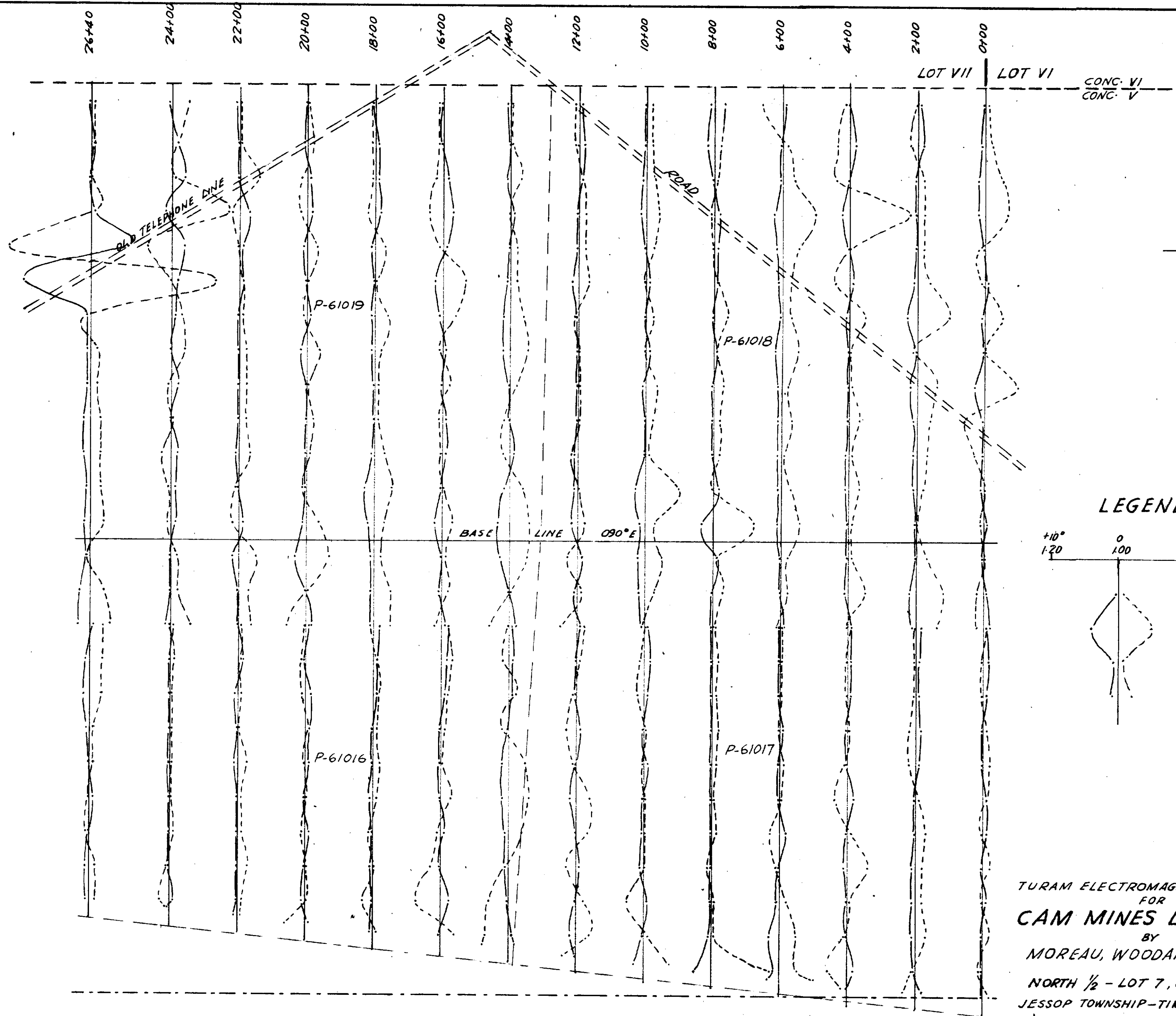
II

I

KEY PLAN

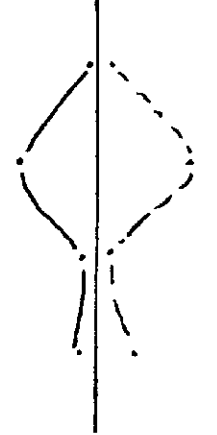


42A1158385 63.1406 JESSOP



**LEGEND**

+10° PHASE ---  
 -10° PHASE ---  
 1:20 0 100 80 RATIO ---



TURAM ELECTROMAGNETIC SURVEY  
 FOR  
**CAM MINES LIMITED**  
 BY  
 MOREAU, WOODARD & CO. LTD.  
 NORTH 1/2 - LOT 7, CONCESSION 5  
 JESSOP TOWNSHIP - TIMMINS AREA, ONT.  
 SCALE: 1 INCH = 200 FEET

DRAWN - M.J. MOREAU P.Eng.  
 DATE - SEPT. 4/64 **MAP 64-25**

*M. J. Moreau*

