ROBISON MINES LTD.
GEOPHYSICAL SURVEYS
CLAIMS P-372429 to P-372435 incl.
ROBB TOWNSHIP, ONT.

August 6, 1975

E.O. Andersen

Introduction

Geophysical surveys were done on seven claims in Robb Township by J.T. Ward of Toronto Ltd. The location and access to the claims is shown on Plate 1. Access is by highway #576 to the Kam Kotia Mine and then by foot.

A total of 6.5 miles of line were cut by R.A. MacGregor of Sault Ste. Marie, Ontario including base lines.

The claims are owned by Robison Mines Ltd., c/o Cominco Ltd., Suite 1700, 120 Adelaide St.W., Toronto, Ontario, M5H 1T1.

Previous Work

Four overburden drill holes, which penetrated about 5 feet into the Precambrian were drilled by Robison Mines Ltd. in 1974.

Geology

The property around the Kam Kotia and Jameland mines, about 4 or 5 miles to the south-east of the property is mainly underlain by a sequence of volcanic rocks and some sediments which are intruded by gabbros, diorites and diabase dikes. The series of acid volcanics hosting these mines is believed to extend onto this property. However, the lack of outcrop in the area has greatly hampered exploration. There is very little outcrop on these claims and they are believed to be mainly overlain by 50 to 100 feet of clay and till.

Overburden drilling in the area during 1974 intersected mainly volcanics in the Precambrian basement. Ryolite and some andesite were encountered.

Geophysical Surveys

Magnetic Survey (Plate 2)

The magnetic survey was conducted using a Geometrics model G-816 proton magnetometer, measuring the total magnetic field. In order, to obtain the total magnetic field value at each station, 59,000 gammas should be added to each value. The plotted values have had diurnal and temperature drift removed from them.

Magnetic Survey Results

The magnetic pattern over the survey area is generally very flat. However, an area of high magnetics occurs on Lines 128W to L120W just south of the base line and on Lines 92W and 88W just south of the base line. The cause of these anomalies is not known, however, it is

possible that they are caused by diabase dikes, or other basic intrusives.

Turam EM Survey (Plate 3)

The Turam survey was conducted using a Scintrex SE-71 unit operating at 400 hertz. The primary loop location is shown on plate 3. The field strength ratios as recorded in the field have been normalized with respect to the theoretical value at each point and these reduced values have been plotted.

Turam EM Results

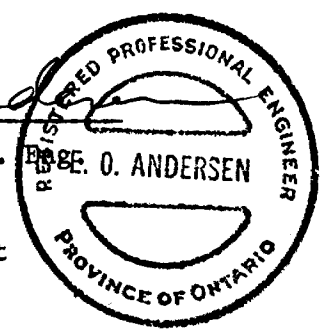
There are a number of minor responses recorded over the survey area. However, none of these are judged as being significant for the location of massive sulphides. Most of the responses are probably caused by overburden irregularities.

Recommendations

Based on the present surveys, no further work is recommended.

Submitted by:

E.O. Andersen, P. Eng.
Geophysicist
Exploration
Eastern District



900

GEOPHYSICAL – GEOLOGI
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey Ground Turam EM

Township or Area ROBB

Claim holder(s) Robison Mines Ltd.

Author of Report E.O. Andersen

Address c/o Cominco Ltd., Suite 1700, Toronto, M5H 1T1
120 Adelaide St. W.

Covering Dates of Survey March 5 to 6 Aug. 1975
(linecutting to office)

Total Miles of Line cut 6.25 miles

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

DAYS per claim

Geophysical
--Electromagnetic 40
–Magnetometer do
–Radiometric
–Other
Geological
Geochemical

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer ____ Electromagnetic ____ Radiometric ____
(enter days per claim)

DATE: 7 Aug 75 SIGNATURE: E.O. Andersen
Author of Report or Agent

PROJECTS SECTION

Res. Geol. ____ Qualifications 2.259

Previous Surveys L.D see attached sheet

Checked by ____ date ____

GEOLOGICAL BRANCH

Approved by ____ date ____

GEOLOGICAL BRANCH

Approved by ____ date ____

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)	
P-	372429	1/3 N.C
P-	372430	✓
P-	372431	✓
P-	372432	✓
P-	372433	✓
P-	372434	✓
P-	372435	✓

If space insufficient, attach list

TOTAL CLAIMS 7

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 286 Number of Readings 340

Station interval 100 feet with many 50-foot readings

Line spacing 400 feet

Profile scale or Contour intervals see map
(specify for each type of survey)

MAGNETIC

Instrument

Accuracy - Scale constant

Diurnal correction method

Base station location

ELECTROMAGNETIC

Instrument Scintrex SE-71 Turam EM

Coil configuration Fixed source - for location see map - Turam mode,

Coil separation variable - receiver coils 100 feet apart,

Accuracy Reduced Ratio ±0.3% Phase Angle ± 0.2°

Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency 400 hertz
(specify V.L.F. station)

Parameters measured measured: field strength ratio between receiver coils
plotted: normalized (reduced) FSR, and phase angle between signal received at each coil.

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION -- RESISTIVITY

Instrument

Time domain Frequency domain

Frequency Range

Power

Electrode array

Electrode spacing

Type of electrode

File 2.1876

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

RECEIVED
AUG 7 1975
by hand
PROJECTS UNIT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey Ground Magnetometer

Township or Area ROBB TWP.

Claim holder(s) Robison Mines Ltd.

Author of Report E.O. Andersen

Address c/o Cominco Ltd., 120 Adelaide St. W., Suite 1700
Toronto, Ontario M5H 1T1

Covering Dates of Survey Mar. 5 to Aug. 6
(linecutting to office)

Total Miles of Line cut 6.25 miles

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	
--Magnetometer	20
--Radiometric	
--Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: 2 Aug 75 SIGNATURE: _____
Author of Report or Agent

PROJECTS SECTION

Res. Geol. _____ Qualifications 2.259

Previous Surveys _____

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

P-372429 1/3N.C
P-372430 ✓
P-372431 ✓
P-372432 ✓
P-372433 ✓
P-372434 ✓
P-372435 ✓

If space insufficient, attach list

TOTAL CLAIMS 7

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 266 Number of Readings 266

Station interval 100 feet

Line spacing 400 feet

Profile scale or Contour intervals 100 gamma contour interval
(specify for each type of survey)

MAGNETIC

Instrument Geometrics G-816 proton mag (total field)

Accuracy - Scale constant ± 5 gammas

Diurnal correction method Looping to basestations established along base line.

Base station location at each picket line along the base line.

ELECTROMAGNETIC

Instrument

Coil configuration

Coil separation

Accuracy

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency
(specify V.L.F. station)

Parameters measured

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION – RESISTIVITY

Instrument

Time domain Frequency domain

Frequency Range

Power

Electrode array

Electrode spacing

Type of electrode

LOVELAND TP. M.293

COTE TP. M.271

JAMIESON TP. M.288

TURNBULL TP. M. 316

THE TOWNSHIP OF 2.1876

ROBB

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	C.
CANCELLED	

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.

Areas withdrawn from staking under Section 42 of the Mining Act (R.S.O.1960), Sec. 43 (R.S.O.'70).

Order No.	File	Date	Disposition
(42)	67054	16/3/66	S.R.O.

This township lies within the Municipality of CITY of TIMMINS.

MINING LANDS - DATE OF ISSUE AUG 13 1975 MINISTRY OF NATURAL RESOURCES

PLAN NO.- M.309

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

42A12SE0241 2.1876 ROBB

200

J.F

LOVELAND TWP.

ROBB TWP.

MACDIARMID TWP.

JAMIESON TWP.

MATAGAMI RIVER

KAMISKOTIA RIVER

LITTLE KAMISKOTIA RIVER

KAMISKOTIA LAKE

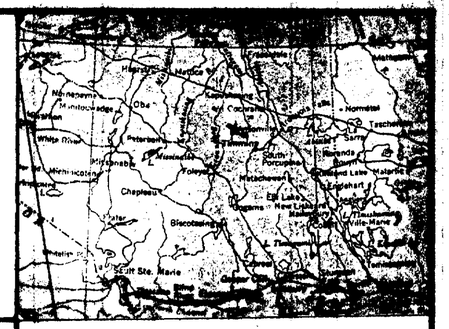
HWY. 576

N

0 1/2 1 1-1/2 miles

210

42A12SE0241 2.1876 R09B



LOCATION MAP Scale: 1 inch : 100 miles

LEGEND

L Leased ground

P Patent ground

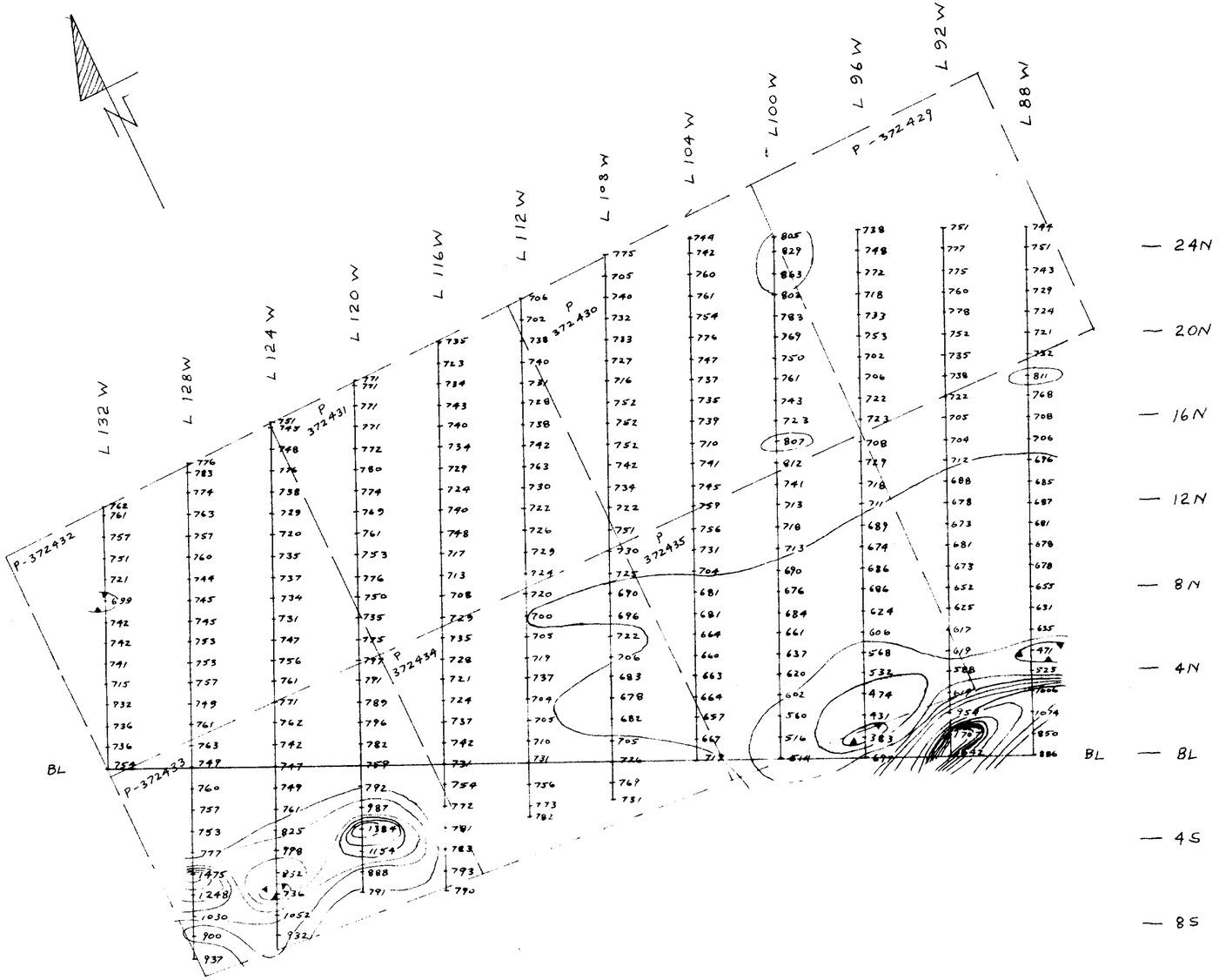
PROFESSIONAL ENGINEER PROVINCE OF ONTARIO

Drawn by: ANS	Traced by:
Revised by / Date: CK JULY 18 '75	Revised by / Date:

ROBISON PROPERTY, ONT.
CLAIM MAP

N.T.S. 42-A-12

Scale: 1 inch = 1/2 mile | Date: April 30, 1975 | Plate: 1



LEGEND

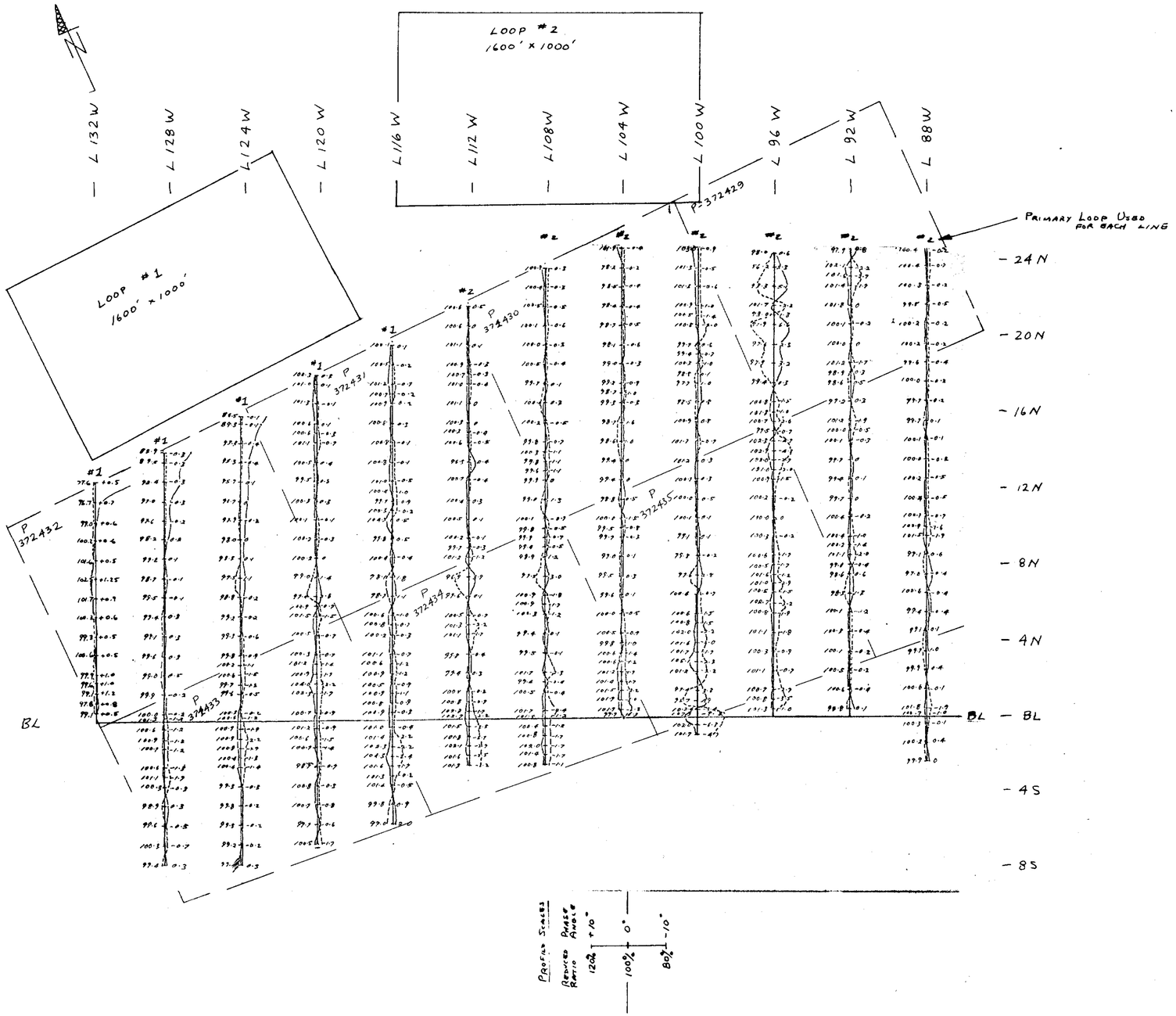
INSTRUMENT – GEOMETRICS G-816
MODE - NUCLEAR PRECESSION - TOTAL FIELD
RELATIVE ACCURACY – ± 5 gammas
CONTOUR INTERVAL – 100 gammas
SURVEY BY J.T. WARD, TORONTO

E.A. ANDERSEN
REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

Drawn by: EoA		Traced by:	
Revised by	Date	Revised by	Date

MAGNETOMETER SURVEY
CLAIMS P-372429 TO P-372435 INCL.
ROBISON MINES LTD.

Scale: 1" = 400' | Date: AUG 1975 | Plate: 2



LEGEND

INSTRUMENT - SCINTREX SE-71
RECEIVER COIL SPACING - 100 FT
FREQUENCY - 400 HZ
READINGS PLOTTED MIDWAY BETWEEN RECEIVER COIL LOCATIONS
REDUCED RATIO PLOTTED TO LEFT OF LINE ·—·—·
PHASE ANGLE PLOTTED TO RIGHT OF LINE ·····

SURVEY BY - J. T. WARD, TORONTO

E. O. ANDERSEN
REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

Drawn by: EOA		Traced by:	
Revised by	Date	Revised by	Date

ROBISON MINES LTD.
TURAM EM SURVEY
CLAIMS P-372429 TO P-372435 INCL.
ROBB TWP

Scale: 1" = 400' | Date: AUG 1975 | Plate: 3