ECSTALL MINING LIMITED

REPORT ON GEOPHYSICAL WORK

IN

REAUME TOWNSHIP

CLAIMS: P317755-P317761, P317771,
P333525-P333530, P333536,
P333537, P339666, P339667,
P339672, P339673

FEBRUARY, 1973

J. A. SLANKIS

Ecstall Mining Limited

Report on Geophysical Work

in

Reaume Township

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A geophysical survey, consisting of magnetic and horizontal loop traverses, was carried out over this group of 20 contiguous claims located in Lots 11 and 12 of Concession IV and V Reaume Township.

Magnetics:

There are two main magnetic features within the claim group. The one magnetic anomaly is located at the eastern end of the grid and appears to form part of the magnetic high shown on Preliminary Map P767 (Reaume Township) of the Timmins data series. Ultramafic rocks appear to cause this magnetic high.

The other main feature is a long magnetic high, extending from Line 12+00E to Line 69+00E, with a possible westerly extension on Lines 0+00 and 3+00E. The long strike length, narrow width and anomaly amplitude — typically 1000-2000 gammas, with locally up to 8000 gammas above background — suggest that this feature is caused by a belt of relatively low grade magnetite iron formation. Dip is steep to the south.

Excepting the above anomalies, there is little magnetic relief over most of the claim group.

Horizontal Loop:

In general, all the conductors detected are characterized by long strike length, narrow width, lack of magnetic correlation and low to medium conductivity. Also, excepting the conductor centered at 6+25S on Line 36+00E, the anomalies are parallel to the east-west geological strike in this area. Therefore, it is most probable that the anomalous responses result from graphitic horizons.

The conductor at 6+25S on Line 36+00E is an exception in that it strikes at 45° to the regional trends, has a very high conductivity and appreciable width although there is some enhancement due to the traverses crossing it at approximately 45°.

Conclusions and Recommendations:

The only area of particular interest outlined by the surveys is the e-m conductor on Line 36+00E. Further work should consist of cutting a small grid at right angles to the strike and detailing the anomaly by means of horizontal loop measurements.

J. A. SLANKIS

JAS:ss

File 2.1154

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 Geophysical

Township or Area Reaume Township

Claim holder(s) Ecstall Mining Limited

Box 175, Commerce Court, Toronto M5L 1E7, Ont

Author of Report J. A. Slankis

Address As above

Covering Dates of Survey June 1, 1972-February 16, 1973
(linecutting to office)

Total Miles of Line cut 18.3

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

Geophysical	DAYS per claim
--Electromagnetic	20
--Magnetometer	40
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: Feb. 16, 1973 SIGNATURE: J. A. Slankis
Author of Report or Agent

PROJECTS SECTION

Res. Geol. _____ Qualifications 2.686

Previous Surveys 2.1137 (Expenditure)

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
P	317755
P	317756
P	317757
P	317758
P	317759
P	317760
P	317761
P	317771
P	333525
P	333526
P	333527
P	333528
P	333529
P	333530
P	333536
P	333537
P	339666
P	339667
P	339672
P	339673

TOTAL CLAIMS 20

If space insufficient, attach list

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

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations MAG: 1177 EM: 1073 Number of Readings MAG: 1284 EM: 1073

Station interval 100 Feet (50' Detail)

Line spacing 300 Feet

Profile scale or Contour intervals EM: 1"=20% (Profiles) MAG: 100 Gammas (Contours)
(specify for each type of survey)

MAGNETIC

Instrument McPHAR M-700 Fluxgate Magnetometer (Vertical Field)

Accuracy - Scale constant ± 20 gammas

Diurnal correction method Looping

Base station location at base line on Line 0+00E

ELECTROMAGNETIC

Instrument McPHAR VHEM

Coil configuration Horizontal Loop

Coil separation 200 Feet

Accuracy ± 2% on In-phase and Quadrature

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

Frequency 2400 Hz
(specify V.L.F. station)

Parameters measured In-phase and Quadrature components of Secondary field as percent of Transmitted field.

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

REAUME TWP. M.576

Fournier Twp.

Beck Twp.

Hanna Twp.

Duff Twp.

Corman

Reaume

Requine

SUBDIVISION

ANNULLED

VI

V

IV

III

II

I

12 11 10 9 8 7 6 5 4 3 2 1

THE TOWNSHIP OF REAUME

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.
ROADS	
IMPROVED ROADS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	

NOTES

400' Surface Rights Reservation around all Lakes and Rivers.

ENTIRE SUBDIVISION ANNULLED BY ORDER OF THE SURVEYOR GENERAL FILE 112122.

- MINING LANDS -
DATE OF ISSUE
FEB 23 1973
MINISTRY OF NATURAL RESOURCES

PLAN NO. — M - 576

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

G.E.M.

200

2.1154

INSTRUMENT

McPhar 660, VHEM.
200' cable.
2400 Hz

NOTE:
Profile Scale: 1" = 20%
In Phase ———
Quadrature x- - -x
\+ Rdgs. ←—→ − Rdgs.

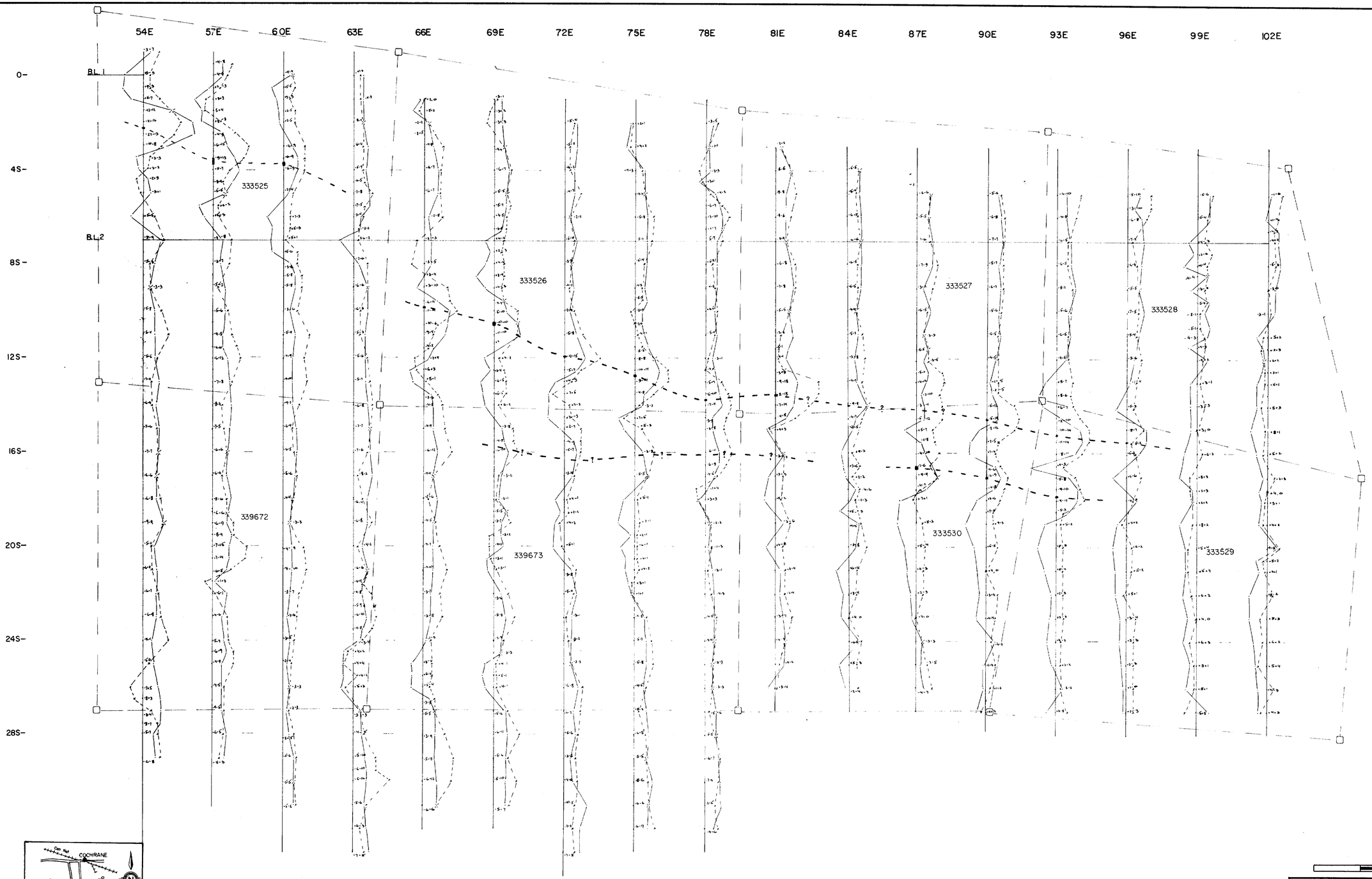
West Sheet

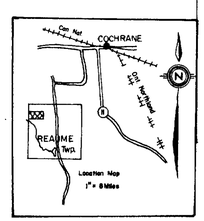
ECSTALL MINING LIMITED

HORIZONTAL LOOP SURVEY
REAUME 51

WORK BY	DRAWN BY	DATE
	J.K.	November 1972

2.1154 16/2/73





INSTRUMENT

McPhar 660, VHEM
200' cable.
2400Hz

NOTE:

Profile Scale: 1" = 20%
In Phase ——·——
Quadrature x - - - x
+ Rdgs. ←—→ - Rdgs.

East Sheet

SCALE: ONE INCH = 200'

ECSTALL MINING LIMITED

HORIZONTAL LOOP SURVEY
README 51

WORK BY	DRAWN BY	DATE
	J.K.	November 1972

2.1154

A. Sharp 16/2/73