ELECTROMAGNETIC SURVEY

CANOESHED LAKE

HUTT TOWNSHIP

Toronto, Ontario.
July 10, 1972.

R. H. Clayton, M.Sc., P. Eng.
Watts, Griffis and McOuat Limited

LOCATION AND ACCESS

The claims are in Hutt Township, 32 miles west of Matachewan on Highway 588 and its extension, and a mile south of the road. The road is an all-weather road, a trail along an esker leads from the road to within a few hundred feet of the claims.

The claims are on the north and west shores of Canoeshed Lake.

CLAIMS SURVEYED

Six claims were surveyed 296146-48, 328262-263, and -265.

CLAIM HOLDER

D. F. Des Rosiers 2910 - 280 Wellesley Street East, Toronto, Ontario. Licence Number A 40906.

SUBMITTING PARTY

R. H. Clayton, Watts, Griffis and McOuat Limited, Suite 911, 159 Bay Street, Toronto 1, Ontario.

GEOLOGY

The claims are almost completely covered by overburden. One outcrop of rhyolite was noted on the shore of Canoeshed Lake, and there is an outcrop of rhyolite and diabase in the northeast part of the property.

The Ontario Department of Mines has mapped the area on a scale of 2" = 1 mile.

PREVIOUS WORK

No previous work is on file.

WORK DONE

Linecutting

Baselines were cut N 40 E and picket lines were cut at right angles with a spacing of 400 feet. Stations were at 100-foot intervals. A total of 5.5 miles of line were cut.

Geophysics

A vertical loop electromagnetic survey was carried out over the whole of the claim group using the parallel method (moving transmitter). The instrument used was a Scintrex S.E. 250 with a frequency of 1,000 cycles per second. Dip angles from the horizontal were measured in the conventional way. Since this instrument has only one frequency, an estimate of conductivity was made by estimating the out-of-phase component insofar as the reading of the dip angle has to be made from a minimum rathern than a clear null. This component is theoretically a function of the sine of the dip angle, so that there should be a clear null with zero dip angle.

The scale of measurement used is as follows:

1. Clear null
2. Null not quite clear
3. Weak but definite minimum
4. Strong minimum
5. Very strong minimum
6. Difficult to find a minimum.

One to three could be caused by massive sulphides, four to six indicates disseminated sulphides or other medium to poor conductors. Spurious dip angles caused by orientation errors usually have a rating of one.

RESULTS AND CONCLUSIONS

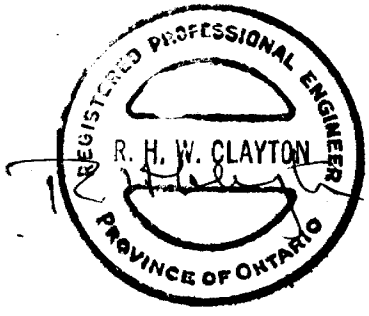
There were as many as four conductors indicated per line. Conductivity indicated was moderate to poor, but there was considerable power line noise in the area which made estimates of the null difficult.

The conductors were hard to correlate from line to line. This indicates that graphite is the conductor. Furthermore, the area is low-lying, indicating softer rock than the surrounding rhyolite and andesite.

RECOMMENDATIONS

No further work is recommended.

Respectfully submitted,



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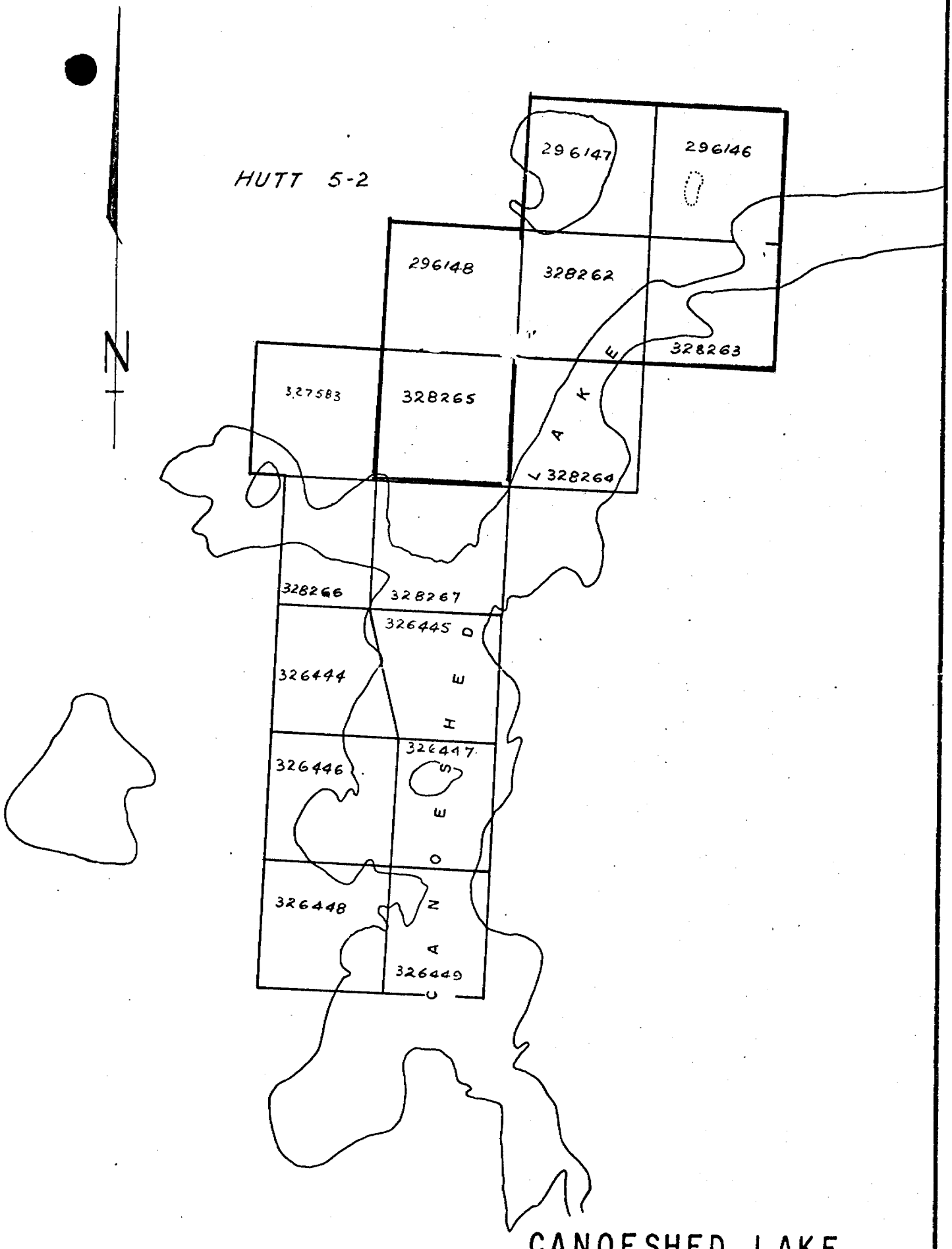

HUTT 5-2
N
296147
296146
296148
328262
328263
327583
328265
328264
328266
328267
326445
326444
326447
326446
326448
326449
CANOESHED LAKE
Scale 1"=1320'

900

GEOPHYSICAL – GEOLOGI
TECHNICAL DATA

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 VERTICAL LOOP ELECTROMAGNETIC

Township or Area HUTT TOWNSHIP

Claim holder(s) D. F. DESROSIERS

Author of Report R. H. Clayton, Watts Griffis & M

Address McDUAT Ltd 911-159 Bay St Toronto

Covering Dates of Survey September 30, 1971 – June 1, 1972
(linecutting to office)

Total Miles of Line cut 5.5

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
–Radiometric
–Other
Geological
Geochemical

except No credits for this claim of

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

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

DATE: July 10, 1972 SIGNATURE: R. H. Clayton
Author of Report or Agent

PROJECTS SECTION

Res. Geol. ____ Qualifications On this file

Previous Surveys LD

Checked by ____ date ____

GEOLOGICAL BRANCH

Approved by ____ date ____

GEOLOGICAL BRANCH

Approved by ____ date ____

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)	
L	296146	
	296147	
	296148	
	328262	
	328263	¼ not covered
	328265	

If space insufficient, attach list

TOTAL CLAIMS 6

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

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 267 Number of Readings 267

Station interval 100 ft

Line spacing 400 ft

Profile scale or Contour intervals 1" = 400'
(specify for each type of survey)

MAGNETIC

Instrument

Accuracy - Scale constant

Diurnal correction method

Base station location

ELECTROMAGNETIC

Instrument SCINTREX S.E. 250

Coil configuration Vertical Loop

Coil separation 400 ft

Accuracy 1°

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

Frequency 1000 cycles per second
(specify V.L.F. station)

Parameters measured dip angle

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

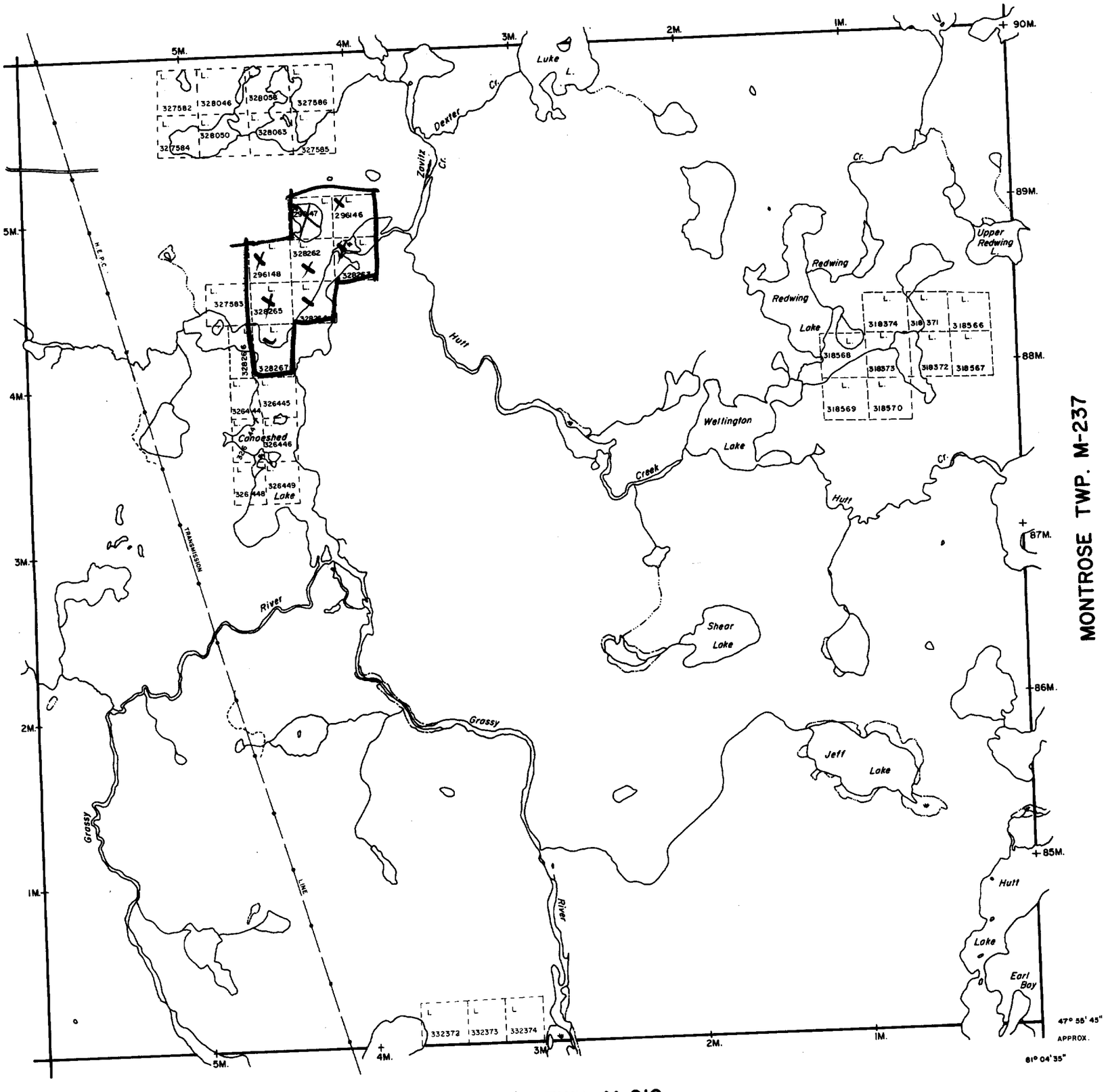
Type of electrode

ZAVITZ TWP. M-1189

SEMPLE TWP. M-1100

MONTROSE TWP. M-237

HALLIDAY TWP. M-910



NOTES

400' surface rights reservation along the shores of all lakes and rivers.

DATE OF ISSUE
JUL 1 1972
ONT. DEPT. OF MINES AND NORTHERN AFFAIRS

LEGEND

PATENTED LAND	P or
PATENTED FOR SURFACE RIGHTS ONLY	
LEASE	L
LICENSE OF OCCUPATION	L.O.
CROWN LAND SALES	C.S.
LOCATED LAND	Loc.
CANCELLED	C.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
HIGHWAY & ROUTE NO.	17
ROADS	
TRAILS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	

*used only with summer resort locations or when space is limited

TOWNSHIP OF

HUTT

DISTRICT OF SUDBURY 2.938

LARDER LAKE
MINING DIVISION

SCALE : 1 INCH = 40 CHAINS (1/2 MILE)

DR. R. NOBLE	PLAN NO. M-943
DATE MAY 5, 71.	

ONTARIO
DEPARTMENT OF MINES
AND NORTHERN AFFAIRS