
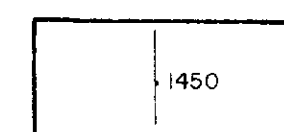
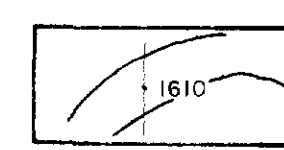


KORDOL EXPLORATIONS LIMITED

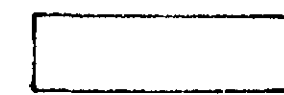


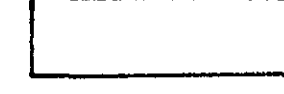

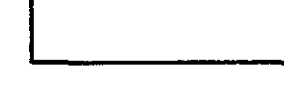


MAGNETOMETER SURVEY

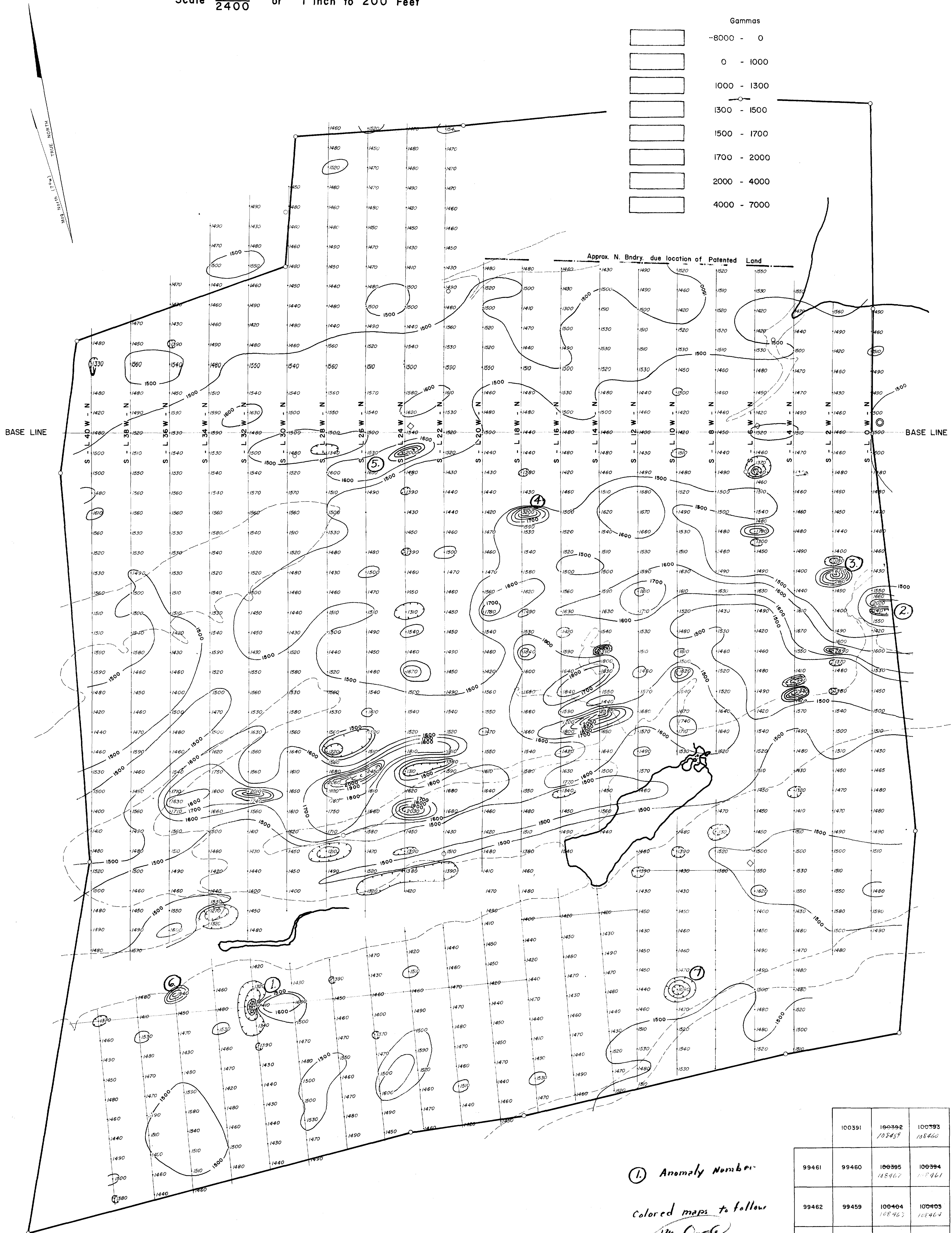
HYMAN TWP. PROPERTY
ONTARIO

LEGEND

-  BASE STATION & Control Stations
-  Vertical Magnetic Intensity at Stations in GAMMAS
-  Interpreted Lines of equa magnetic intensity

Scale $\frac{1}{2400}$ or 1 Inch to 200 Feet

- Gammas
-  -8000 - 0
 -  0 - 1000
 -  1000 - 1300
 -  1300 - 1500
 -  1500 - 1700
 -  1700 - 2000
 -  2000 - 4000
 -  4000 - 7000



(1) Anomaly Number
colored maps to follow
W. C. G.

	100391	100392	100393
		105457	108460
99461	99460	100395	100394
		108462	108461
99462	99459	100404	100405
		108463	108464
100397	100398	100399	100400
		108465	108466

CLAIM NUMBERS

63-10-20
Dy...
KORDOL EXPLORATIONS LIMITED

Suite 407
19 Melinda Street
Toronto 1, Ontario.



41105NE0088 0025B1 HYMAN

010

MAGNETOMETER SURVEY.
MAGNETOMETER SURVEY
SUDBURY AREA PROPERTY

by
Michael Ogden

Toronto, Ontario.
December 15, 1959.

63, 1020

KORDOL EXPLORATIONS LIMITED

Suite 407
19 Melinda Street
Toronto 1, Ontario.

MAGNETOMETER SURVEY, SUDBURY AREA PROPERTY

REFERENCES:

1. Kordol Report and map by Ogden, April, 1959
2. 291A, Espanola Sheet, G. S.C. 1928
3. Claim map, Hyman Township.

INTRODUCTION:

During the period June 10 to August 28, 1959, a Magnetometer Survey was conducted over the entire property of Kordol Explorations Limited in Hyman Township, Sudbury Mining District, Ontario.

One zone of heavy sulphide mineralization with copper and nickel was known to exist in the southwest corner of the property. Other showings of sulphide mineralization were suspected but their locations were not defined. A Magnetometer Survey was therefore conducted for two specific reasons: first, in order to see whether or not the mineralization itself was detectable by magnetic survey, and secondly to discover if the

rocks which enclosed the mineralisation were magnetically different from other rock types which underlay the property.

PROPERTY

The property consists of 15 unpatented claims in Hyman Township, some 40 miles west of Sudbury, Ontario.

Concession	1,	NE	quarter	of	N $\frac{1}{2}$	lot	6	is	claim	S-100391
"	1,	SW	"	"	"	6	"	"	S-	99461
"	1,	SE	"	"	"	6	"	"	S-	99460
"	1,	NW	"	"	S $\frac{1}{2}$	6	"	"	S-	99462
"	1,	NE	"	"	"	6	"	"	S-	99459
"	1,	SW	"	"	"	6	"	"	S-	100397
"	1,	SE	"	"	"	6	"	"	S-	100398
"	1,	NW	"	"	N $\frac{1}{2}$	5	"	"	S-	108459
"	1,	NE	"	"	"	5	"	"	S-	108460
"	1,	SW	"	"	"	5	"	"	S-	108462
"	1,	SE	"	"	"	5	"	"	S-	108461
"	1,	NW	"	"	S $\frac{1}{2}$	5	"	"	S-	108463
"	1,	NE	"	"	"	5	"	"	S-	108464
"	1,	SW	"	"	"	5	"	"	S-	108466
"	1,	SE	"	"	"	5	"	"	S-	108465

ACCESS:

The property may be reached by boat, from the small town of Turbine at the east end of Agnew Lake. The cross-water distance is about two miles. Aircraft may also be used, landing in a long narrow bay of Agnew Lake at the northeast corner of the property. The transportation of heavy equipment to and from the property is best done by road or rail from Nairn, which is on Highway 17 and the C.P.R. A good gravel road leads from Nairn across the Spanish River by ferry, to within two miles of the southwest corner of the Kordol property. A bush road connects the gravel road with the property.

Handwritten scribbles

GEOLOGY:

A geological survey has been done immediately following the magnetometer survey. Although the final results are not plotted, the distribution of rock types in the Kordol property is quite obvious. Sills or dykes of Nipissing-type diabase underlie the northern half and the southern quarter of the Kordol ground. The remaining quarter is underlain by Ramsay-Lake-type conglomerate. The strike of the formations is east-northeast with steep dips to the south. Four occurrences of sulphide mineralization have been located and all of them are within the Nipissing-type diabase rock. The mineralization is mostly pyrite and pyrrhotite with some chalcopyrite and a little pentlandite.

METHOD OF SURVEY

A Sharpe A-2 magnetometer was used, serial number 102, with a sensitivity of 22.0 gammas per scale division.

A base line was cut east and west through the north central part of the property and picket lines were run north and south at 200 foot intervals from the base line. Magnetometer readings were taken at every 100 foot interval along each picket line and if anomalous readings were encountered, the interval was shortened to 50 feet and occasionally to 25 foot intervals. A total of 16.6 miles of line were surveyed by magnetometer for a total of 904 station readings.

The main base station is located on line zero at base line. Its arbitrarily assigned value is 1500 gammas. All readings were calculated so that their value is what it would have been had the whole 904 readings been taken simultaneously with that of the main base station. The calculations remove most of the effect of the hour to hour, day to day and week to week variations in the earth's magnetic field, plus jars and shakes to the instrument that might alter its ability to measure magnetic intensity. Subsidiary stations, or control stations, were set up at convenient locations about the property and were very accurately tied to the base station. During the course of the survey, readings were taken on a control station or the mainbase station at least every two hours in order to determine the diurnal variations.

MAGNETIC TEXTURES:

The magnetometer readings as shown contoured on the accompanying plan of the property display two distinct textures. The northern half and southern quarter of the property are smooth textured with the occasional bump or hollow. Whereas the south central quarter is rough textured with frequent magnetic bumps, mounds, hills and a few hollows. The general magnetic intensity of the smooth textured area is 1500 gammas and the rough area averages 1600 gammas.

These results were not as expected, for the smooth textured magnetic results overlie areas that have been found to be underlain by diabase, which would be expected to be quite variable magnetically.

The rough texture was found to reflect the Ramsay Lake type of conglomerate, with the exception of the most easterly 400 feet which is underlain by diabase.

ANOMALIES WITHIN THE TEXTURAL DIVISIONS:

Sulphide mineralization has never been found in the sediments outlined by the rough textured magnetics. Therefore the numerous small, magnetic anomalies in this area may be considered insignificant.

All the known sulphide deposits on the property are in the diabase as reflected by the smooth textured magnetics. Thus it is within this area that the significant anomalies exist.

1. Main showing, at 2900 feet south on line 32 west. Here, a very sharp magnetic negative (minus 7410 gammas) was encountered on top of the mineralization.

2. Shaft showing. On line zero at 900 feet south. Here, considerable sulphides were exposed near the erratic magnetics on the line.

3. A small showing of sulphide mineralization on line 2 west at 700 feet south. Fifty feet south of the exposure, there is a 6710 gamma reading and immediately north of it, an 1150 gamma result.

4. An 1800 gamma anomaly on line 18 west at 400 feet south. This anomaly is on a large outcrop where no significant mineralization was noticed. It is therefore unlikely to be productive.

5. A 600 gamma anomaly on line 24 west 100 feet south taken in conjunction with a 100 to 200 gamma depression on line 28 west at 100 feet south. As both these mild anomalous conditions are in areas of heavy overburden the rock cannot be examined. They should be further investigated. If the overburden is quite thick, it could dampen the magnetic results.

6. A 500 gamma anomaly on line 36 west at 2300 feet south. This is a small anomaly, close enough to the main No. 1 showing that there might be some connection and therefore it should be investigated along with the main showing.

7. A 400 gamma depression in one location on line 10 west at 3000 feet south. This anomaly is at the contact between diabase on the north and greywackes to the south, and is unlikely to be productive, but would bear some further investigation.

CONCLUSIONS:

1. The main showing should be drilled at close intervals with a series of short holes in order to properly establish its tenure and trend.

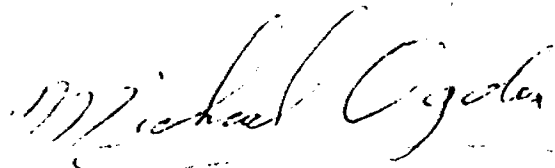
2. If significant mineralization is encountered in the above drilling programme, anomalous areas 2,3,4,5,6 and 7 should be investigated by geophysical means in order to establish the direction of any concentrated mineralization nearby.

RECOMMENDATIONS:

1. Drill 6 holes into the main showing from north to south. Each hole to be 30 feet apart. The holes to be drilled in two series of 3 holes each, the second or deeper series to be 30 feet beneath the first series.

2. Electrical-Geophysical work could best be done by the Holsten type survey where a crew could go onto the property for one or two days and quickly check the vicinity of the magnetically anomalous areas.

Respectfully submitted,



Michael Ogden

Dec 15, 1959

REPORT OF WORK

Kerdol Explorations Limited

Magnetometer Survey

Hyman Township Property, Ontario.

<u>Line Cuttings:</u> Period from June 10 to July 15, 1959.	<u>days</u>
Wallace Murray - 97 Duneden Dr., Toronto	35
George Popowich - Sudbury, Ontario	30
<u>Magnetometer Operator:</u> Period from July 16 to Aug. 28, 1959.	
Wallace Murray - 97 Duneden Drive, Toronto	42
<u>Technical Assistants to operator:</u> July 16 to Aug. 28, 1959.	
George popowich - Sudbury, Ontario	20
S. E. Armstrong - Sudbury, Ontario	13
<u>Report preparation and consulting-</u> June 10 to Aug. 28, 1959.	
Michael Ogden - Bay Street, Toronto	10
	<hr/>
Total	150
	<hr/>
Times factor of 4	600

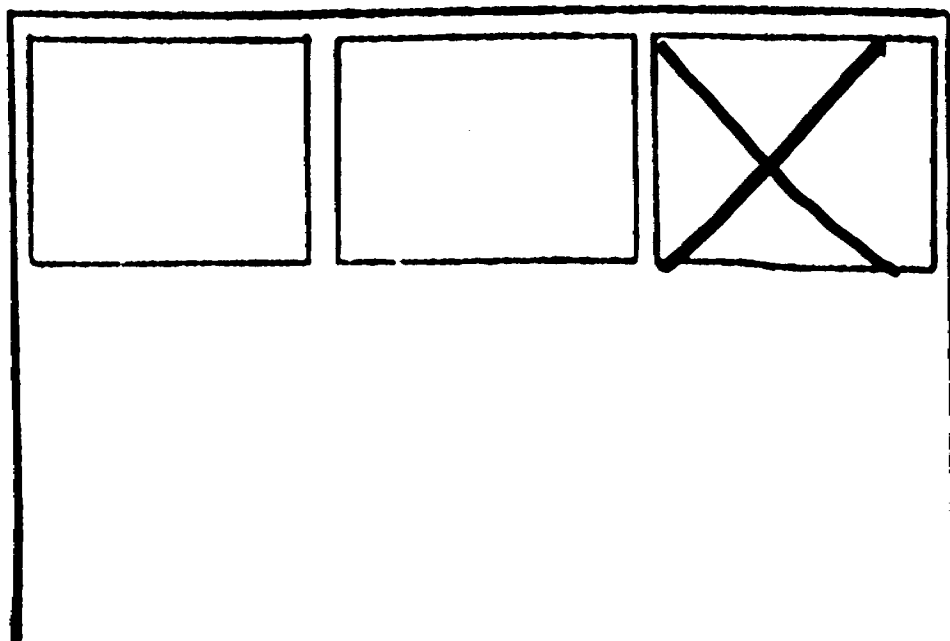
Michael Ogden

Michael Ogden.

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

HYMAN - 0025 - B1 - 1

LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)


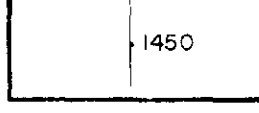
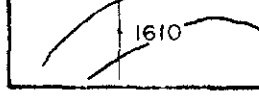


KORDOL EXPLORATIONS LIMITED



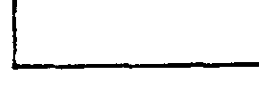

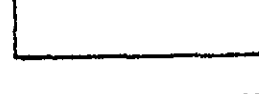
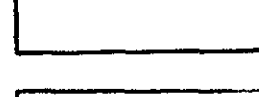
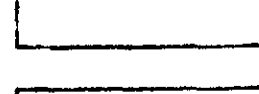

MAGNETOMETER SURVEY

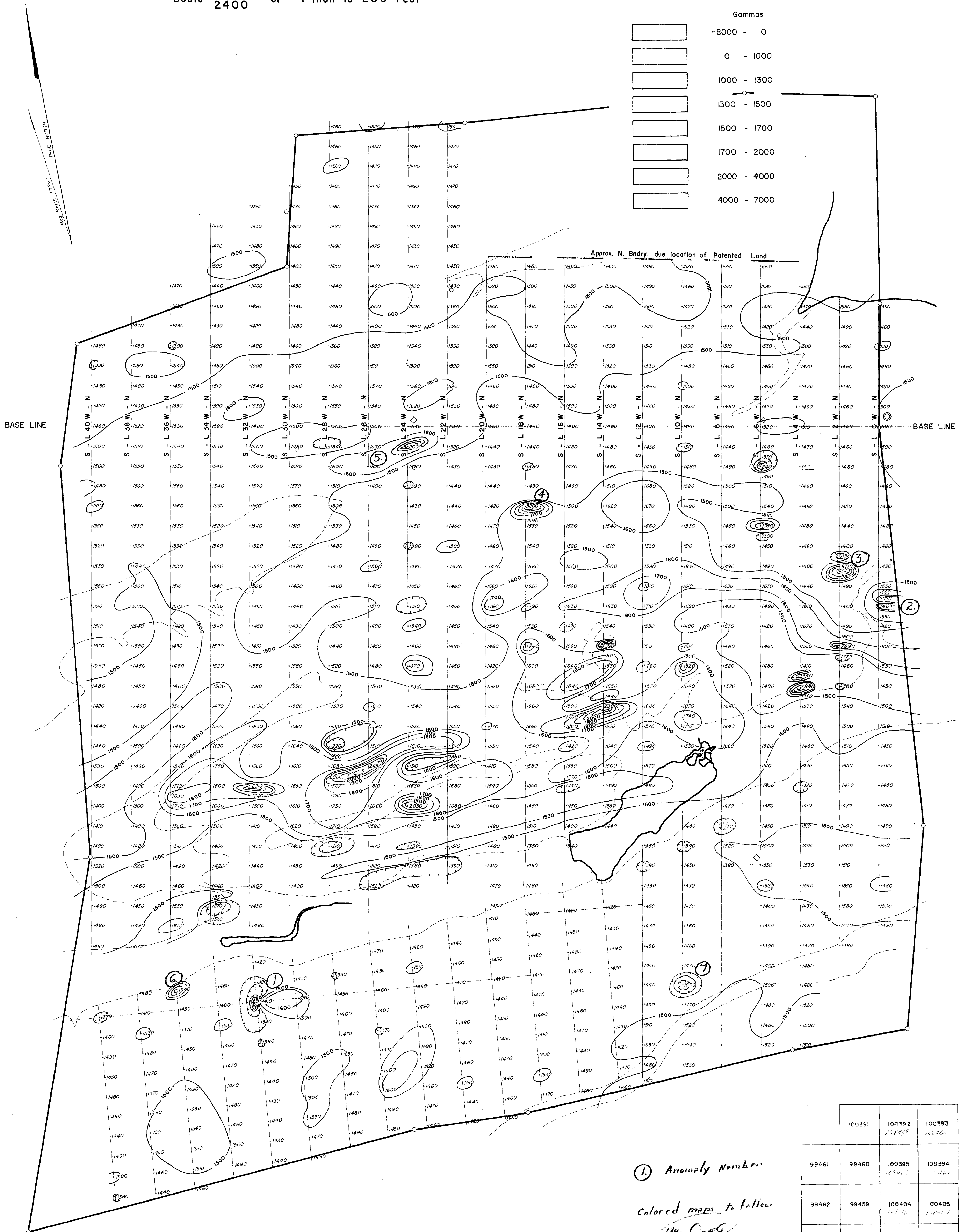
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ONTARIO

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colored maps to follow

Mr. G. G. G.

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