



42A05NE0135 63.1055 TURNBULL

010

EAST TRINITY MINING CORPORATION LIMITED.

TURNBULL TOWNSHIP

ONTARIO.

INTRODUCTION:

An electromagnetic survey has been carried out during March over a group of eighteen claims held by East Trinity Mining Corporation Limited, which are located in Turnbull township, Ontario.

A grid of east-west picket lines were cut over the property at 300' intervals and electromagnetic readings were taken along the lines at 100 foot stations. The results have been compiled on the enclosed map, which is on the scale of 1 inch equals 400 feet.

ELECTROMAGNETIC METHOD:

The method used in this survey is sometimes known as the electromagnetic-galvanic method to distinguish it from other electromagnetic methods.

A long insulated copper cable is laid out in a direction approximating the regional strike and is grounded at both ends. An alternating current of about 800 cycles per second is passed through this system, the source of supply being a motor-driven generator.

The current generates an alternating magnetic field concentric about the cable and therefore roughly perpendicular to the surface of the ground at points away from the axis of the cable.

ELECTROMAGNETIC METHOD (Contd).

Secondary currents will be generated in any sub-surface conductor - such as a sulphide body - partly by induction from the cable itself, and partly by earth conduction from the grounded ends of the cable. The magnetic field from such a body will be horizontal in a limited region above the body.

Readings of the direction (or tilt) of magnetic field are made along survey lines perpendicular to the cable. Significant departures from the vertical are ascribed to sub-surface conductors. The interpretation of any such anomaly will involve the size, conductivity and attitude of the sub-surface body, and its position relative to the cable.

In addition to sulphides, other conductors - such as graphitic zones, water-permeated shears, clay beds, or swampy ground - may give rise to anomalies.

DISCUSSION OF RESULTS:

Two electromagnetic conductors were outlined by the survey.

Anomaly 1 is a weak indication that occurs on line 15N at chainage 2500 west and extends south-easterly to line 12N at chainage 2000 west. There is an indication of this anomaly again on line 6N at chainage 600 west.

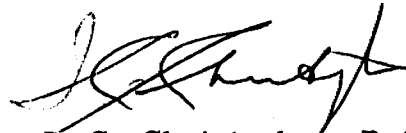
DISCUSSION OF RESULTS (Contd):

Anomaly 2 is also a fairly weak anomaly which strikes northeast-southwest and occurs on line 3N at 0-00 and on line 2N at 300 East.

Anomaly 1 coincides with a series of local magnetic highs shown on the magnetic map as A-A.

It is recommended that this zone be investigated by surface stripping.

Respectfully submitted,



I. C. Christopher, B.Sc., P.Eng.

Toronto, Ontario.

June 16. 1960



RESULTS OF GEOLOGICAL MAPPING:

A visit was made to the East Trinity property in Turnbull township during the first week in June 1960.

Large areas of outcrop occur on the western and central part of the property.

A large intrusive granite mass extends down from the north and underlies most of the central and eastern part of the property.

Dark gabbroic rock occurs around the granite and underlies the western, southern and southeastern part of the property.

Several general north-south trending diabase dykes cut through the other formations. These dykes can be extended in places on the basis of the magnetic survey.

The magnetic anomaly which occurs on line 900 south at 900 west and extends northerly to line 900 north at chainage 1200 west is believed to represent the contact between the granite and the gabbro.

The north-south trending anomaly which occurs at approximately 1300 east of the base line on line 0-00 and strikes north-south represents a diabase dyke.

The magnetic anomaly near the west boundary of the property which extends from line 0-00 at 3100 west to line 1200 at chainage 3400 west is believed to represent a diabase dyke.

A diabase dyke cuts across the outcrop area on line 18-00 at 3100 west. This dyke coincides with a magnetic anomaly.

A series of local magnetic highs having a north 60° west trend are shown on the magnetic survey map.

The small anomaly on line 18-00 at 3100 west, as mentioned above may be due to the diabase dyke exposed in this area, although the anomaly does not persist along the strike of the dyke. It is believed that this series of local magnetic highs referred to as A-A on the magnetic map represents a structural feature. A weak electromagnetic anomaly coincides closely with this zone.

Quartz veins containing pyrite mineralization were found in two locations. One on the west boundary of the property just north of line 15-00. This exposure does not look important. Two strong quartz veins are exposed in a trench on the south boundary of the property. The veins strike north westerly and dip steeply to the north. Disseminated pyrite occurs along the contact of the veins. Samples from both locations returned nil in gold. However, it is understood that gold values have been obtained from the area of the vein and it is felt that the showing merits further investigation.

RECOMMENDATIONS:

It is recommended that further stripping be carried out along the quartz veins near the south boundary of the property

RECOMMENDATIONS (Contd).

and also that a packsack diamond drill be used to put some short holes down along the vein if it is traced onto the property. It is also suggested that stripping be carried out on the local magnetic highs on the trend marked A-A on the magnetic map to determine if it represents a mineralized zone.

Respectfully submitted,



G. P. Thoday, P. Eng.

Toronto, Ontario.
June 16 1960





42A05NE0135 63.1055 TURNBULL

030

EAST TRINITY MINING CORPORATION LTD.

TURNBULL TOWNSHIP

ONTARIO

MAGNETOMETER SURVEY

INTRODUCTION:

The following report is based on the results of a magnetometer survey covering a group of 18 mining claims in the west central part of Turnbull township in the Timmins area of Ontario.

The survey was performed between February 15 and March 13, 1960 for East Trinity Mining Corporation Limited. The claims are numbered P47069 to P47077 inclusive and P47087 to P47095 inclusive.

Survey lines were cut and picketed at 300 foot intervals in an east-west direction. Magnetometer readings were made at 100 foot intervals along lines with a few intermediate readings. The survey covered a total of 16 line miles.

A Sharpe A-2 type magnetometer was used with a scale constant of 22 gammas per division.

The results, after reduction for daily variation are shown plotted on the accompanying plan of lines at a scale of one inch - 400 feet. A discussion of results is given in a later section of this report.

GEOLOGY:

The claims are located in the western part of the Porcupine gold area, near the western edge of the greenstone belt.

GEOLOGY: (Contd).

Geological map by the Ontario Department of Mines shows the claim area to be at least partially underlain by intrusive quartz porphyry or granite of Algonian age. Several north-south trending younger diabase dykes cut across the property.

The Department of Mines report mentions a large quartz vein which strikes N 58° W and appears to be located on the claims to the southeast of the East Trinity property.

MAGNETIC RESULTS:

The principal magnetic anomalies are most probably due to a system of diabase dykes striking generally north-south across the property.

The boundaries of such dykes would be favourable zones for mineral occurrences, and such occurrences, if containing sufficient pyrrhotite or magnetite, would themselves produce magnetic anomalies.

Several north-south striking magnetic anomalies have been outlined and are shown on the accompanying map. As mentioned before most of these anomalies are caused by diabase dykes.

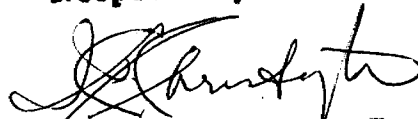
A series of local magnetic highs occur on the western part of the property along the north-south trending magnetic anomalies. The local highs line up in a direction

MAGNETIC RESULTS: (Contd).

N60°W. This is the strike of the reported quartz vein on the adjoining property to the southeast. It is suspected that this structure, which is shown on the accompanying map by a heavy broken line and marked A - A, is worth investigation, as it may be due to pyrrhotite mineralization.

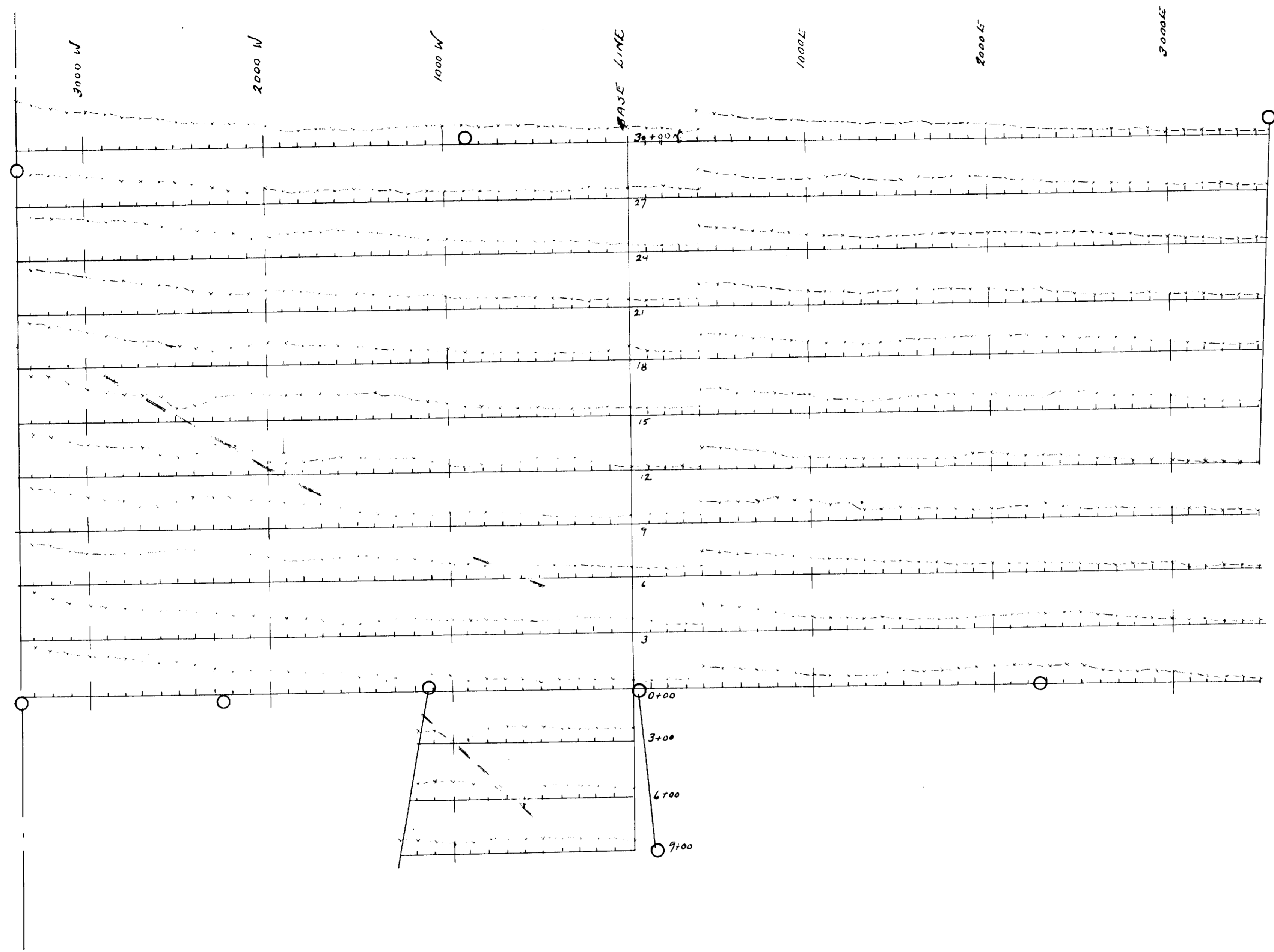
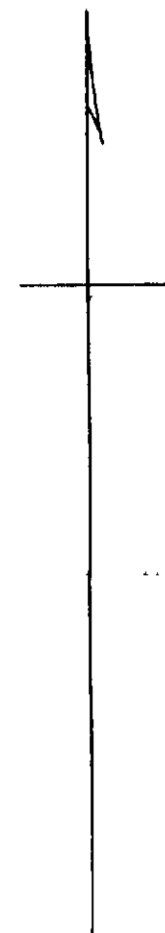
An electromagnetic survey will be carried out over the property to cover this zone and other magnetic anomalies deemed worth testing. A program of geological mapping will be carried out in conjunction with the electromagnetic survey. This program will determine whether a program of diamond drilling should be undertaken.

Respectfully submitted,



I. C. Christopher, B. Sc., P. Eng.

Toronto, Ontario.
March 23, 1960.



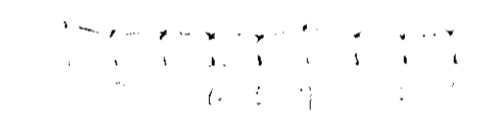
MASSEY TWP

TURNBULL TWP

47069	47070	47071	47072	47073	47074
47087	47088	47089	47077	47076	47075
47090	47091	47072	47073	47094	
		47095			

M.P. 3

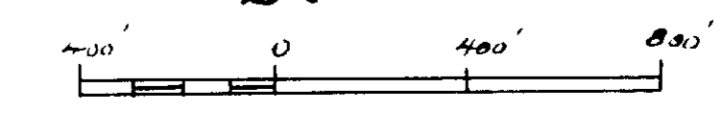
LEGEND



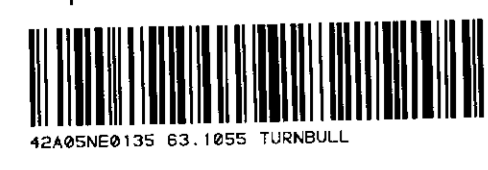
E.M. PROFILE
 READINGS IN
 DEGREES. (Scale - how many
 degrees to 1 inch)

EAST TRINITY MINING CORPORATION LTD
 TURNBULL TWP ONT.
 ELECTROMAGNETIC SURVEY

SCALE



(1 1/2 X 3) 4 1/2 sq ft. J.C. Lambton June 16.



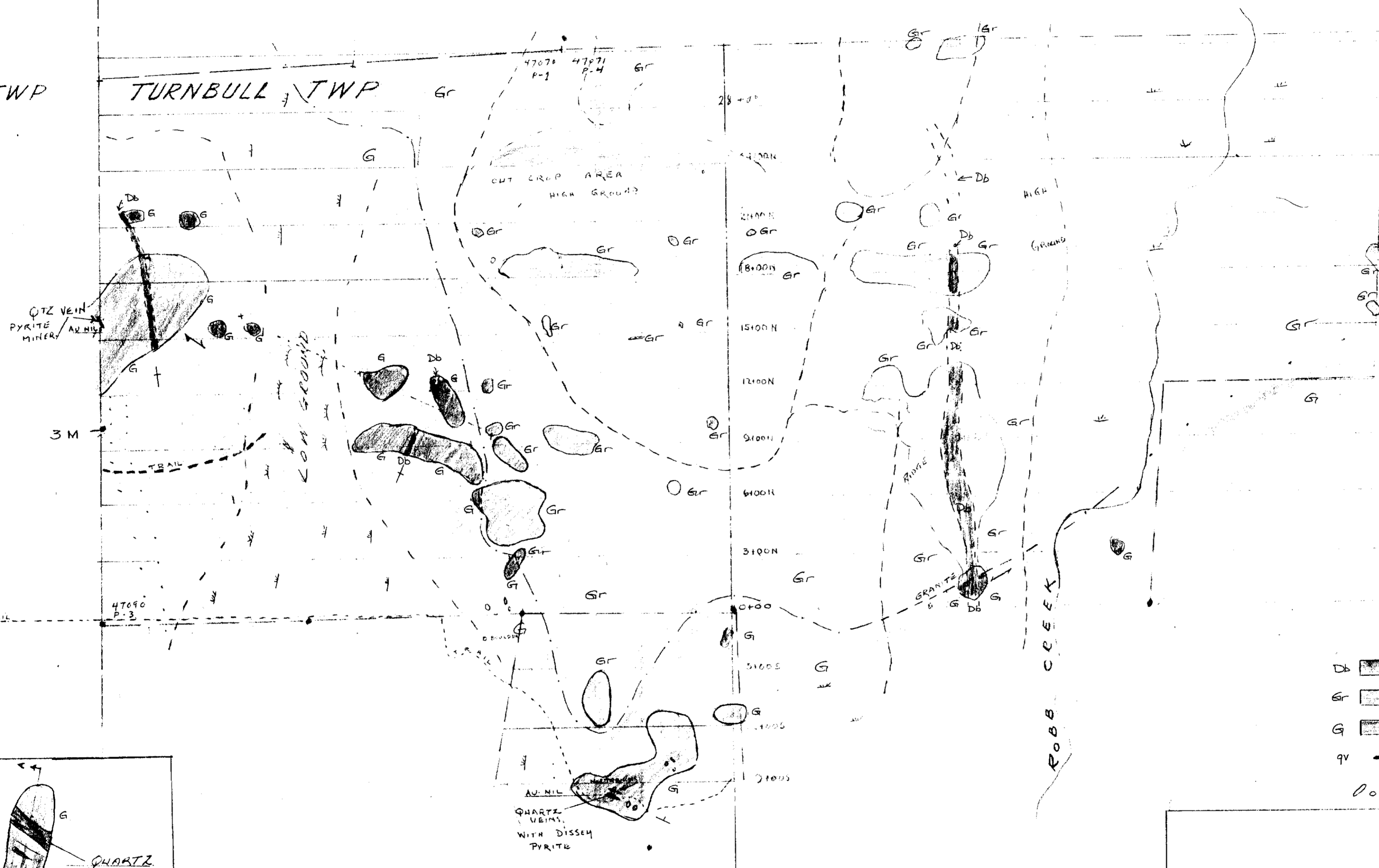
MASSEY TWP

TURNBULL TWP

2000W

1000W

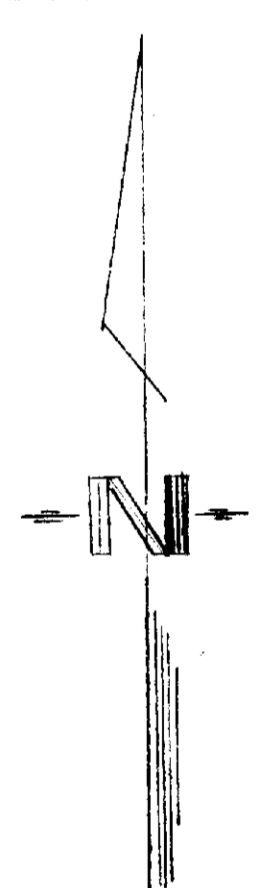
BASE LINE



TURNBULL TOWNSHIP

P	P	P	P	P	P
47667	47670	47671	47672	47673	47674
47681	47685	47689	47677	47676	47675
47690	47691	47692	47693	47694	
		47695			

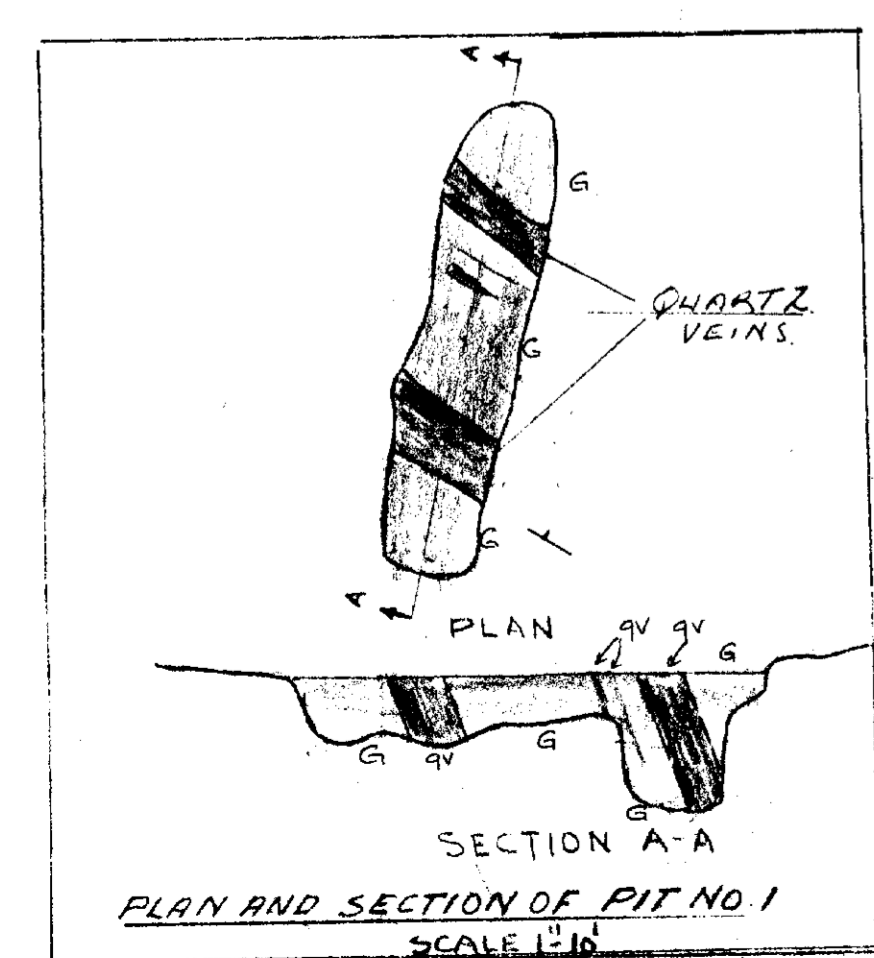
SKETCH OF CLAIMS
1" = 1/2 MI



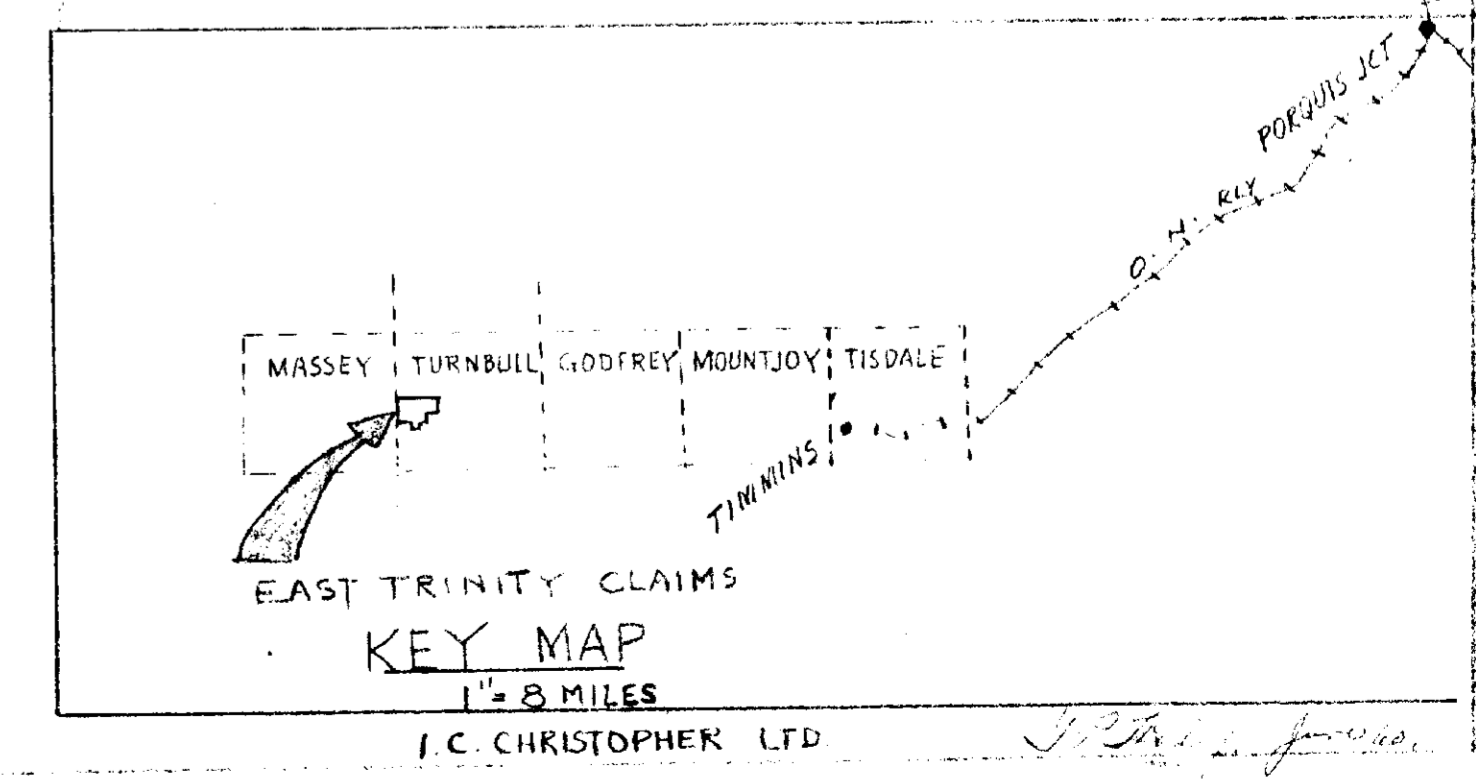
- LEGEND**
- Db ■ DIABASE
 - Gr ■ GRANITE
 - G ■ GABBRO
 - qv — QUARTZ VEINS
 - 000 PITS & TRENCHES & STRIPPING

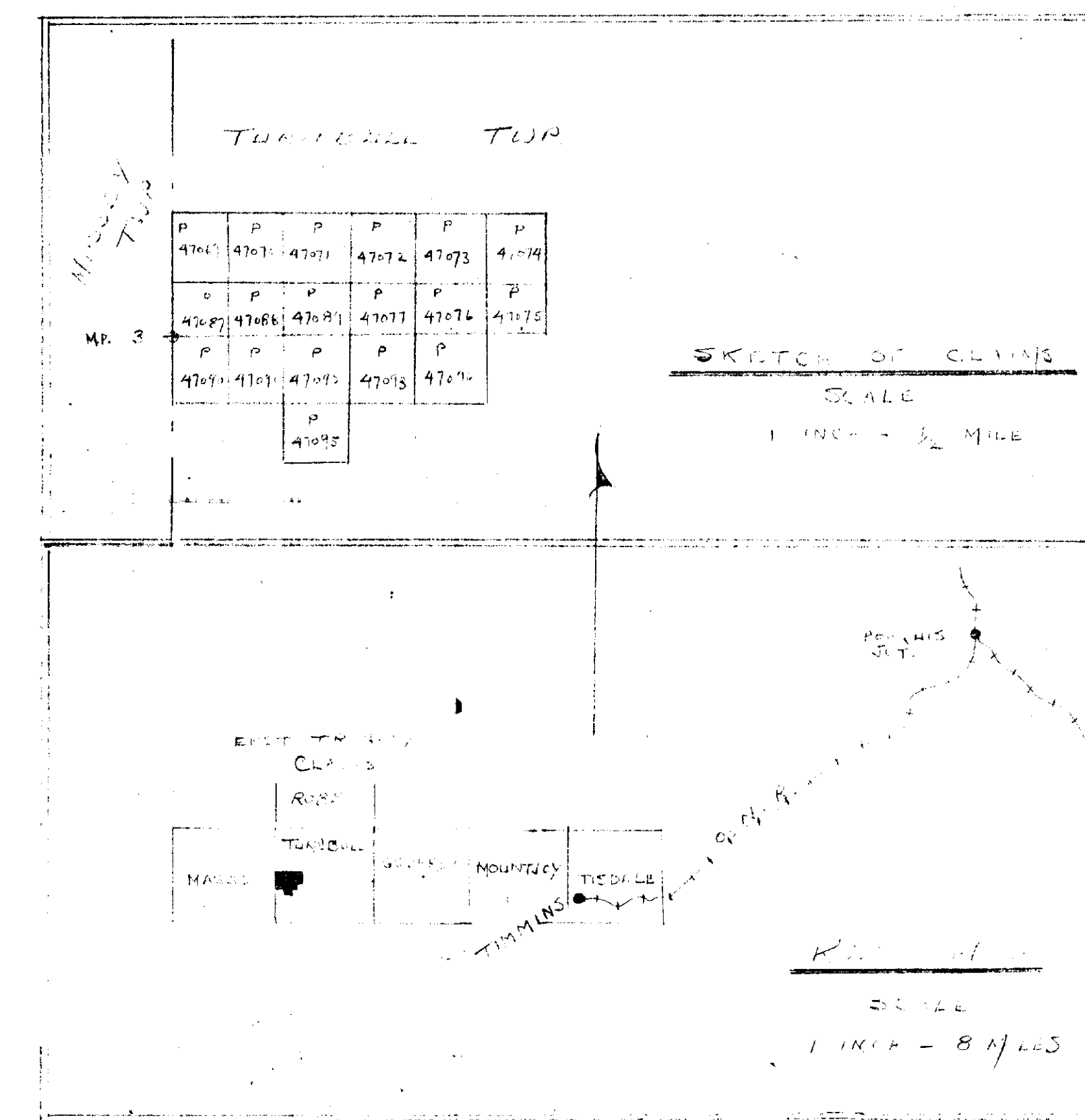
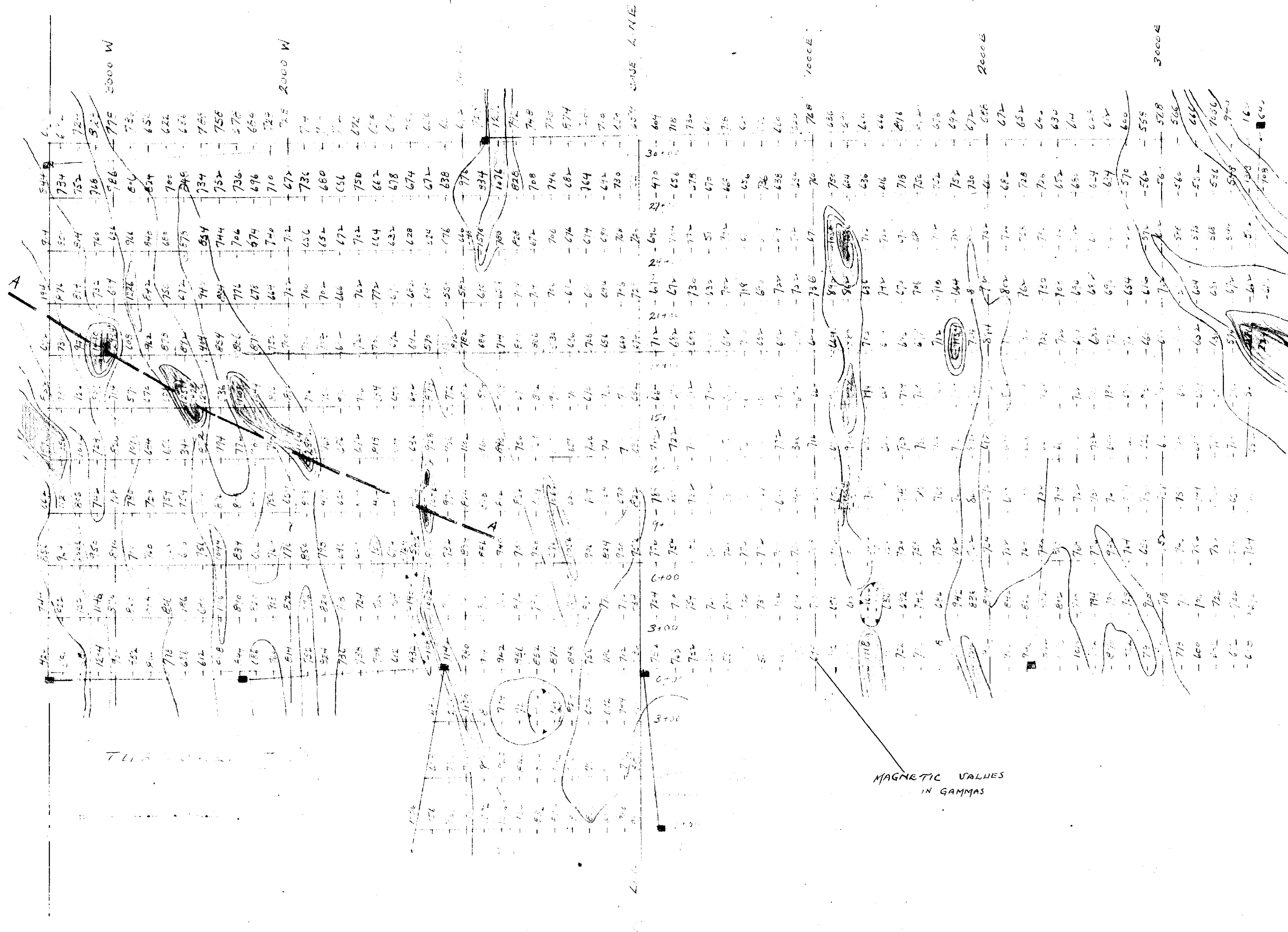
GEOLOGY
EAST TRINITY MINING CORPORATION LTD.
TURNBULL TWP
ONTARIO

SCALE - 1" = 400'

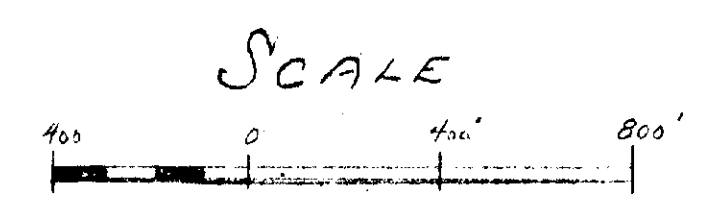


JUNE 1960





EAST TRINITY MINING CORPORATION LTD
 TURNBULL TWP ONT.
 MAGNETOMETER SURVEY



JCO
 MAR 50
 (1 1/2 x 2 1/2) 3 3/4 x 1/4

