



## PAYMASTER CONSOLIDATED

(NO PERSONAL LIABILITY)

SOUTH PORCUPINE, ONTARIO

ADDRESS ALL CORRESPONDENCE TO COMPANY, NOT TO INDIVIDUALS.

December 31, 1957

Mr. C. H. Goss,  
President and Managing Director,  
Paymaster Consolidated Lines, Limited.

Dear Sir:-

Following please find report on Paymaster's property in Berrows and Lorne townships. The property comprises 53 parcels Reg. 25230-25247 inc. 25294 to 25412 inclusive, 25417 to 25439 inclusive, and 25517 to 25519 inc.

The general shape of the north end of the common boundary and extend north along the townline boundary for one and three quarters miles. The property extends east to the west shore of Lorne Lake and the narrows. The property includes Little Lorne Lake and most of the irregular lake lying west of Little Lorne. The property extends almost a mile north of Little Lorne Lake with the northeast corner about the centre of the west shore of Little Lorne Lake just south of "Crooked Bay". The property continues one and a half miles west from this point.

Accessibility:

Little Lorne Lake is suitable for the landing of aircraft of moderate size. This is six miles west of Upper Grassy Lake at the end of the Grassy River Road ten miles north of the Elk Lake-Centre road at mileage 52 west of Elk Lake.

In May 1957 a road was bulldozed to the property around the north end of Lorne Lake from the north end of the Grassy River Road at Lorne Creek a distance of 12 miles. The rest of Lorne and Berrows have built a row of six buildings on Upper Lorne Lake for reforestation and have improved the road. After the fall rains parts of the road were practically impassable. It is expected that the road will be improved and extended during the coming year.

Lorne Creek is navigable by canoe at high water but very crooked.

Topography:

The whole area was burned in 1941 and again in 1951. There are a few green trees along the lake shores and there are two areas of green swamp of a few acres each. The property is mostly rolling "sand plain" with a few of the hills almost a hundred feet above the lake level. The hills generally strike east-west. The soil is a sandy loam rather than sand. There are a few burned swampy areas but no muskeg.

The outcrops are chiefly on the lakeshore, on the north side of ridges, and in some general outcrop areas.

Summary of work:

The property was staked in January 1957. At that time I took some dip needle readings confirming the position of the aeromagnetic anomaly. In March 1957 a magnetometer survey was done on the whole property spacing the lines 1000 feet apart. Detail work was done on the anomaly areas

spacing the lines 300 feet apart. The magnetic anomalies were checked with the electromagnetometer. A conductor was traced for 2000 feet along Middle Lake shore. Two diamond drill holes were drilled from location 4000 east-southwest and 920' southwest on the south shore of the lake and one hole was drilled from location 2700' S.W. and 225' N.E. on the north shore of Middle Lake shore. These holes cut into chlorite schist at the location of the conductor. The schist in P.M. No. 3 contained small amount of chloropyrite but the assays were only .02 and .02% copper.

During time 1957 geologic mapping was done covering the outcrops in the central part of the property on the map available. Detail work was done on the 1530 road of Middle Lake shore showing a variety of intrusions.

Geology:

The rocks on the property are all early pre-Cambrian but the oldest are not as far west as the center of Kemp Township.

Legend

- Bedrock - bedded type up to 100 feet wide.
- Old intrusive - large type in type.
- Granite - small granitic in P.M. No. 3 from 430' to 660'
- Intermediate - Middle 3 amphibole of dioritic composition.
- Younger diorite - small type in P.M. No. 3 from 43' to 94'.
- Diorite-chlorite - schist of chlorite, such altered, chlorite from rock.
- Chlorite - schist of chlorite and also in type.
- Chlorite - highly altered to chlorite
- Chlorite (intermediate) - chlorite altered giving with fine magnetite.
- Intermediate - chlorite.
- Agglomerate - large conch 2" to 4" in diameter, probably basaltic breccia.
- Spherulitic lava - Very fine spherulitic lava with spherulites up to 4" in dia.

Geologic Volcanism

West of Middle Lake there is a very good exposed section across the volcanism. In the north there is spherulitic rhyolite or acid lava. This rock is intensely spherulitic with spherulites four inches in diameter with traces of pillow structure. The contact with the overlying agglomerate is convex.

East or northeast along on either side of the diorite there is an outcrop of agglomerate or basaltic breccia as described by Mr. A. Brown in a report on the type of lines, Vol. 62 part 6, on Belton Township. In the town road near here in the "diabase tract" but from observations north of Middle Lake in Belton and Kemp townships the agglomerate is of volcanic origin or closely associated with lava. This is a lighter colored agglomerate with the fragments lighter than the matrix.

Northeast of the agglomerate there is intermediate or basic lava with tops northwest. This type of intermediate pillow lava is found in weathered outcrops up far north as the north edge of the property. This pillowed structure has little flow structure with pillows up to 4' long. On sites 25238 and 25237 the lava has been intruded by diorite. The boundaries between the lava and diorite are very irregular and in places the rock has been changed to diorite while retaining the lava structure.

Basic Intrusive

The intermediate and basic intrusives occur under Little Horn Lake and extend to the north and northwest. They have been differentiated from diorite to granite before serpentinization. The granite has two masses black and green outcrop in on claims 25227 and 25240. The black granite is probably zinc (zinc) occurring near the contact with the fluorite-gabbro. The green granite is crystalline with grains of olivine 1/10" in diameter with fine magnetite between the grains.

The fluorite-gabbro is a rather variable rock. The 2' core outcrops on a claim 25240 associated with the granite are coarse pyritic and may be gabbro. Further from the granite near point of claim 25227 where the lava is massive the rock is a fairly diorite. In the east shore of Little Horn Lake there is a drift of fluorite-gabbro with one or two outcrops of granite. The fluorite-gabbro cut in the diamond drilling was similar to the granite except that the core showed more alteration. Some of the cores in the bottom of the holes was so altered and fine that it was classified as peridotite altered to chlorite, talc, and serpentine.

Younger Fluorite-gabbro

In P.M. No. 2 a fine diorite was cut from 43' to 94 feet. This is considered younger than the fluorite-gabbro-granite as it was unshattered and very slightly altered. Some of the dikes east of Little Horn Lake are probably of this younger age. There is a gabbro intrusive in the center of the diorite which is also considered to be younger.

Bi-tite-bearing zone

There are some with bi-tite which were found around the property on surface and was cut in the diamond drill core. The bi-tite flames were in places 12" in thickness. No relationships were observed except that the diorite cut in the east of Little Horn Lake and in the northern part of the property. The gabbro are about a diorite composition.

Granite

Some of the granite in P.M. No. 2 is a light reddish granite. This type of rock was cut in P.M. No. 2 from 480' to 640 feet. The core showed small magnetite cavities and an accessory black siliceous mineral.

Cold water

The dikes west of Little Horn Lake are so numerous and varied that it is difficult to separate or classify them. The lighter cold type are in some places and are of granite and quartz porphyry composition. They are quite massive but porous.

Chicken Tracks Rock or Oris-Cross Structure.

The chicken tracks rock has now become a distinct type of alteration. It is most commonly found near the contact of a basic intrusive or peridotite. On claim 25228 Barrow Township there is an outcrop twenty-five feet long showing very distinct chicken tracks structure on the whole outcrop. Here the structure is very coarse with sheaves four inches long. I have also noticed this coarser type of alteration "oris-cross" structure.

In the core from P.M. Nos. 1 and 2 the chicken tracks structure was found in the grey and green carbonate and also in the outcrop near

The collars of the holes on the south side of Little Lorne Lake. The diorite in both holes showed the chicken track structure.

In Advin township the chicken track structure was seen in the carbonate in the drill core. An unusual occurrence was seen on the west shore of a small lake where the fragments in the apophanite or conglomerate showed this structure. These occurrences in Advin township are distinct in that there is no known basic intrusive nearby.

In Fortuna township the chicken track structure is seen in much of the serpentine mountain peridotite mass. The structure is so widespread that there is no doubt of it occurring in the peridotite. The chicken track rock was seen in much of the drill core as well as on surface in Advin township.

Structure

The structures are so weathered that very little detail structure shows. There is a change in dip indicating an anticline near the south end of the terrace on Lorne Lake. The lava strikes northeast. The pillows in the lava east of Little Lorne Lake face northeast indicating that the axis of the anticline crosses the southeast end of this lake. The lava series is truncated to the east or covered by the Cobalt sediments. The younger sedimentary outcrop at the northeast end of Lorne Lake and extend southeast across Long township.

The basic intrusive follows Little Lorne Lake and extends to the north and northwest. North of the lake the wide diorite zone north of the diorite indicating the top to the north or a north dipping intrusive. There are not enough outcrops nearby to tell if the attitude of the lava has been disturbed by the basic intrusive.

The small dykes east of Little Lorne Lake have various strikes. The majority of the dykes strike northeast but others strike north-south and east-west. The lava contact strikes N.E.

The quartz diorite follows the south side of Little Lorne Lake. West of the lake its abrupt ending indicates faulting. Further to the west near the head lake there are green spots in the diorite two inches in diameter.

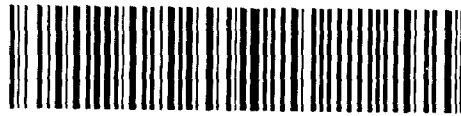
Gray and green (Siderite) carbonate outcrop on the south shore of Little Lorne Lake. One surface sample assayed .08 oz in gold and one drill core sample assayed .11 oz but there seemed to be no concentration of value. The carbonate seemed to strike to the west but there are no other carbonate outcrops to project its extension. There is carbonate outcrop to the south but this outcrop area has not been mapped.

Summary

The Cassiar barrow-hole prospect shows a wide variety of intrusive rocks. There are low gold values associated with the carbonate. Chalcopyrite was seen in the dykes and also in the peridotite in R.S. No. 3. It would be interesting to look over and map the remainder of the property but the economic mineral prospects are unfavorable. We are awaiting the report of the geoelectromagnetic survey by Spartan Air Services Limited.

Signed,

*C. S. Longley*  
C. S. Longley, Engineer-Geologist



41P145W0055 63.930 KEMP

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# SHARPE GEOPHYSICAL SURVEYS LIMITED

SUITE 901 - 330 BAY STREET  
TORONTO 1, ONTARIO

FIELD OFFICE:  
BATHURST, N.B.

TELEPHONE:  
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REPORT OF A MAGNETOTELLURIC SURVEY AND AN ELECTRO-  
MAGNETIC GRADIENT SURVEY ON THE PROPERTY OF FAY-  
LENDY CONSULTING ENGINEERS LIMITED, 1330 BAY AND  
QUEEN STREETS, TORONTO.

by:

SHARPE GEOPHYSICAL SURVEYS LIMITED

## INTRODUCTION

The following report is based on the results of a magnetometer survey and an electro-magnetic (E.M.T.) survey, carried out by Sharpe Geophysical Surveys Limited, on the property of Fay-Lendy Consulting Engineers Limited, in Toronto and its surroundings, Ontario. Field work was carried out between February 27, 1957 and March 29, 1957.

The base line runs in a N-S direction, oriented  $190^{\circ}$  on this property and the lines were cut at right angles to the base line, oriented  $150^{\circ}$ . For reconnaissance magnetometer survey lines were cut at 1000-foot apart and for detailed magnetic work, more lines were cut at 200-foot and 400-foot intervals in between the 1000-foot lines. Measurements were taken at 100-foot station intervals along these lines.

The field procedure adopted in the magnetometer survey is to measure the variation in vertical component of magnetic intensity. The magnetic anomalies such as magnetic, diamagnetic, and strongly magnetic material show a higher variation in vertical magnetic intensity than the surrounding rocks. These rocks, in view of their high or peculiar magnetic content, also show greater variations in magnetic intensity than the residue and secondary rock which

generally carry very little of magnetite. At each station the magnetometer was levelled and the needle was oriented in the magnetic meridian direction and the scale reading was noted. Later on, from the knowledge of scale constant of the instrument, the scale readings were converted in the intensity units of "gamma" and plotted. Appropriate corrections were applied to these readings for diurnal variation of magnetic field.

10. WILSON'S CLAIMS PROPERTY

The property consists of a group of 50 claims and is situated in burrows and deep foothills, nearly 20 miles northeast of Cojave. In winter, when the lakes are frozen, the property is accessible by hydroplane, and in summer, by canoe.

The following are the claims belonging to this property:

Claim Nos:	25130 to 25217	Inclusive	-	18	Claims
	25206 to 25212	"	-	9	"
	25217 to 25231	"	-	15	"
	25255 to 25259	"	-	5	"
			Total	-	50 Claims

11. GEOLOGICAL SETTING

The general geology of the area has been reported by Geddiel, and the results of the geophysical survey may be seen on map No: 250, entitled, "Covadonga River Area, District of Sudbury, Ontario", Department of Mines, Province of Ontario. According to Geddiel, most of the area is covered with the volcanic type of rocks which are mostly basic. Apart from the basic rocks, trachytes and rhyolite flows and tuffs also cover the area. Some of the intrusive contacts are found in the area which consist of diabase and carbonatic rocks.

The strikes and dips of the rocks vary much in this area, though in the present survey the strike of the formation was taken northeast-southwest.

which was considered to be the most favourable for the survey. There are many hills and outcrops surrounding the lines.

PLATE II. MAGNETIC AND ELECTROMAGNETIC CHECK SURVEY

The accompanying plan maps, on a scale of one inch equals 400 feet, show the magnetic and electromagnetic check results and the contours based thereon.

Plate I shows the results of the magnetic survey carried out over this property. The magnetic base value may be taken as about 2000 gauss. The results have indicated the presence of a long, and some discontinuous zones of high magnetic intensity, striking approximately parallel to the base line, and these mostly lie on the northeast of the base line. The magnetic anomaly observed in these discontinuous zones usually varies from 1500 gauss to 2500 gauss, although at places, anomalies of more than 4000 gauss to 5000 gauss have been observed. Various magnetic zones are named alphabetically. It was thought that this magnetic anomaly of more than 4000 to 5000 gauss, as is shown in zones 'A', 'B' and 'C', might be due to some magnetic content in the rocks, or due to very massive sulphides. The magnetic anomaly of about 1500 gauss or so, in zones 'D', 'E' and 'F', was also considered due to some weak sulphides or small magnetic content in the rocks. It is rather difficult to say whether the observed discontinuous anomalous zones are being caused by sulphide mineralization or by magnetite, at the contact zones or in the volcanics themselves. Accordingly, electromagnetic check survey was carried out over the anomalous zones to assure whether they are due to some iron content or due to some good conductor.

Plate II shows the plan map of the electromagnetic check survey. No electromagnetic crossovers were observed on zones 'A', 'B' and 'C', from which it is concluded that the magnetic highs are really due to magnetic

content.

Magneto-telluric data has revealed some conductors which are marked in numbered order and are shown on the plan map. The important ones are discussed below.

Conductor #1

This conductor is nearly 2000 feet in length, extending from 1-47/2 to 1-47/3 or probably up to 1-508, and lies southeast of the base line. The conductor, which seems to follow the southern boundary of the Little Lane Lake, shows moderate to strong intensity. The conductor is not related with the magnetic anomaly except on 1-433, where the anomaly of 1500 to 1800 gammas is observed. From the intensity of the conductor it seems to be of economic interest. Though the reason for the conductor is unknown, it is speculated that some contact zone might be running underneath the lake which may be associated with the conductor.

Conductor #2

This conductor is situated on 1-231 at nearly 14400 ft. of the base line. The conductor seems to be of moderate intensity showing a crossover of 13. It is also related with a magnetic high with an anomaly of 1500 gammas. This conductor lies only on one line and does not show any continuity on either side. The conductor might be due to some sulphides which are not considered of economic importance.

Conductors #3 and #4

Conductor #3 lies on 1-108 nearly 600 feet northeast of the base line, and conductor #4 on 1-50 at about 100 feet northeast of the base line. Conductor #3 seems to be very shallow and wide with a moderate intensity of 8, and conductor #4 shows a very weak intensity of 1. Both the conductors are related with the magnetic highs of nearly 1500 to 2000 gammas.



From the intensity of the conductors, they do not seem to be of economic importance.

CONDUCTOR 21 (1-375)

From the foregoing discussion it is clear that the good magnetic anomalies are not associated with the basic belts or any other conductor which could be located by electromagnetic survey.

Electromagnetic survey has revealed only one good conductor of economic importance, though some other weak conductors are also revealed which are associated with magnetic highs but these do not seem to be of economic value.

Conductor 21 shows very strong intensity on 1-375, 1-408, 1-475 and 1-476, and in between it shows quite a moderate intensity. The nature of the conductor is not known but it does seem to be of economic interest and needs further subsurface investigation. If possible, the conductor may be tested with one drill hole on 1-375, which shows very strong intensity, this will not only reveal the nature of the conductor but will also throw some light on the economic value of the conductor.

Respectfully submitted,

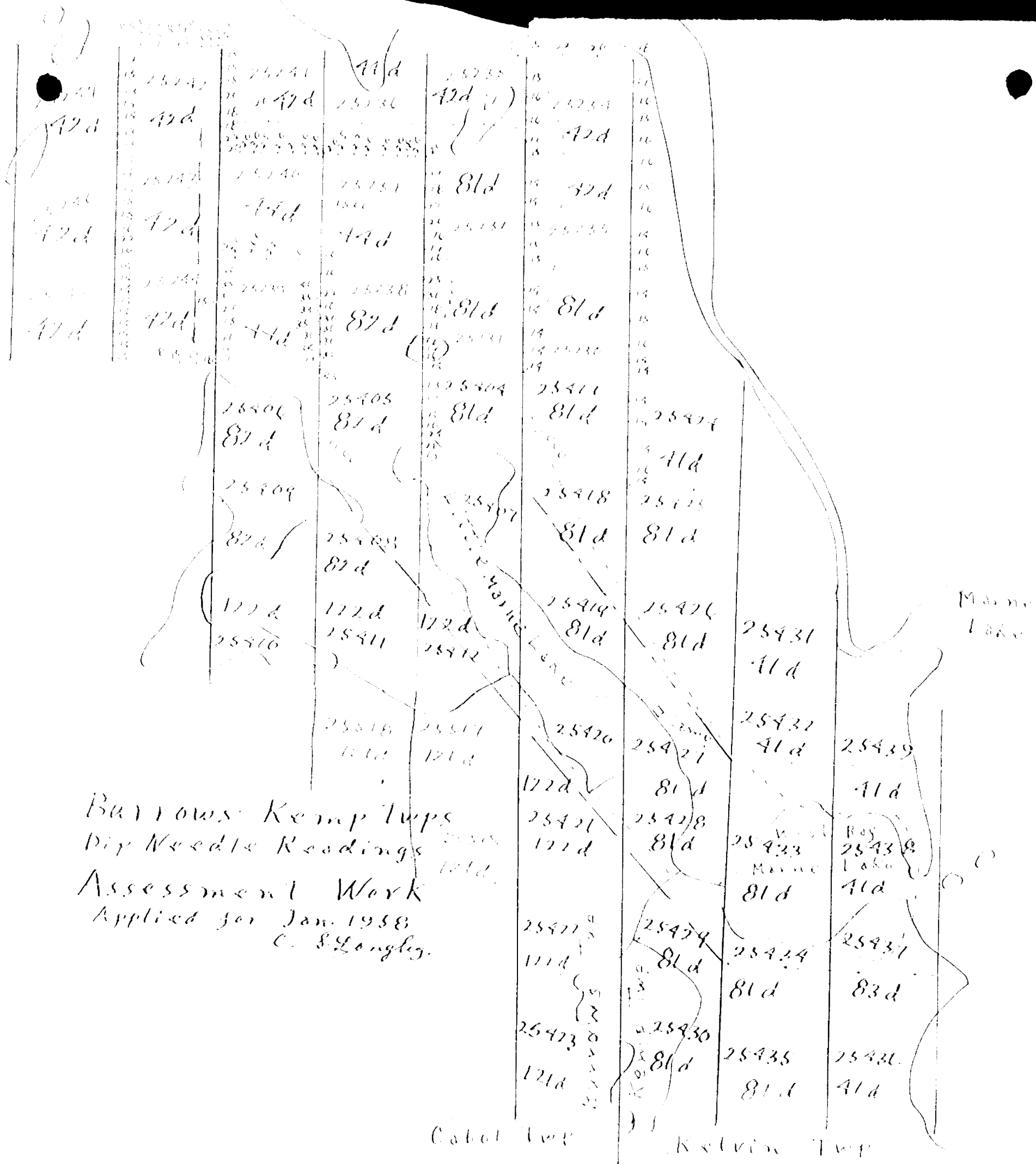
FRANK C. PHYSICAL SURVEYS LTD. LTD

*[Handwritten signature]*

R. G. Agarwal, B.Sc. N.A.,  
Geophysicist.

Toronto, April 25th, 1957.





Barrows Kemp Twp  
 Dip Needle Readings  
 Assessment Work  
 Applied for Jan. 1958  
 C. S. Langley.

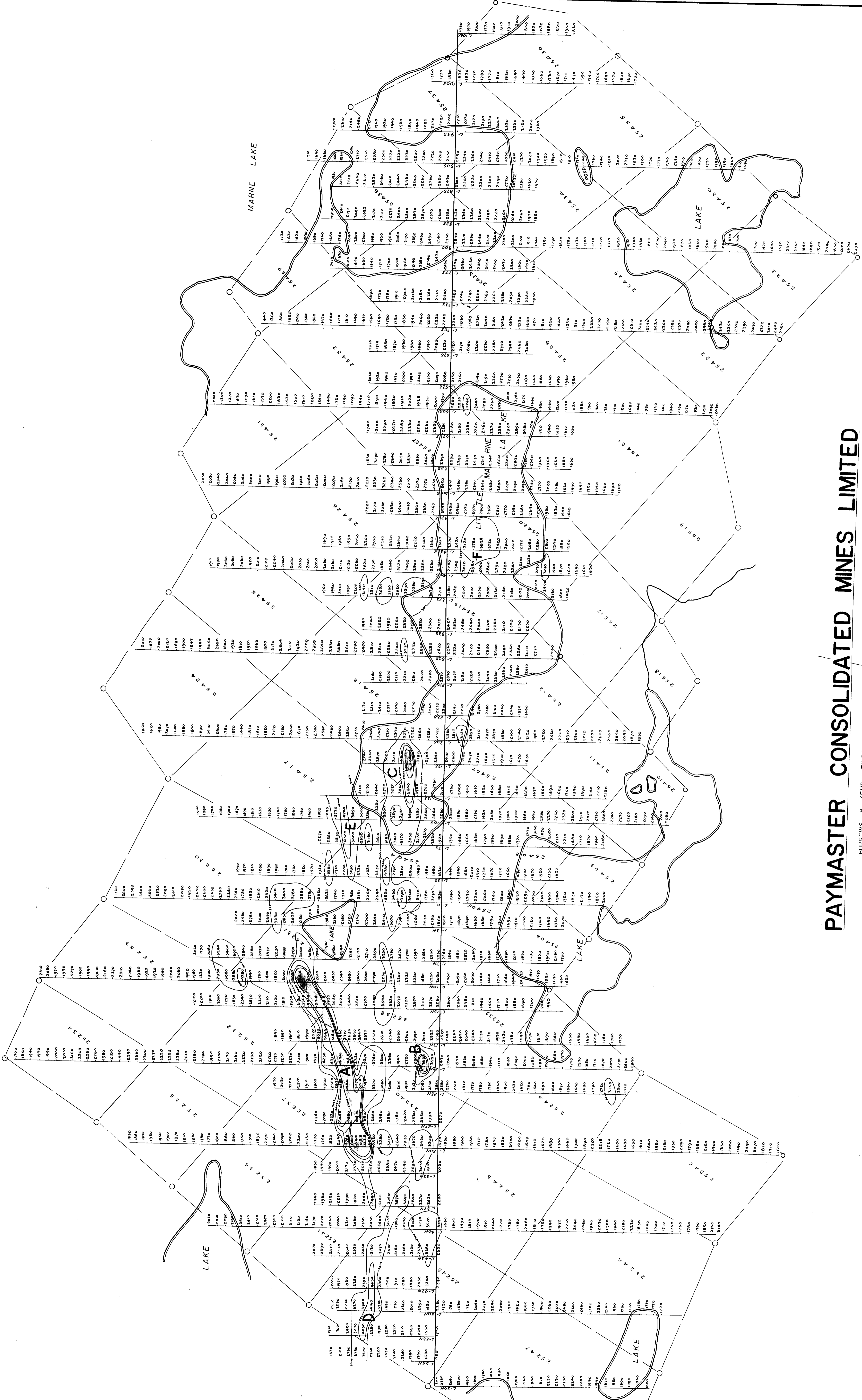
Cabel Twp

Kelvin Twp

Maine  
 Lake

Boy  
 25433  
 Maine  
 Lake

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**PAYMASTER CONSOLIDATED MINES LIMITED**

BURROWS & KEMP TWPS. ONTARIO

**MAGNETOMETER SURVEY**

SHARPE GEOPHYSICAL SURVEYS LIMITED  
TORONTO CANADA

Scale 1" = 400 ft

**LEGEND**

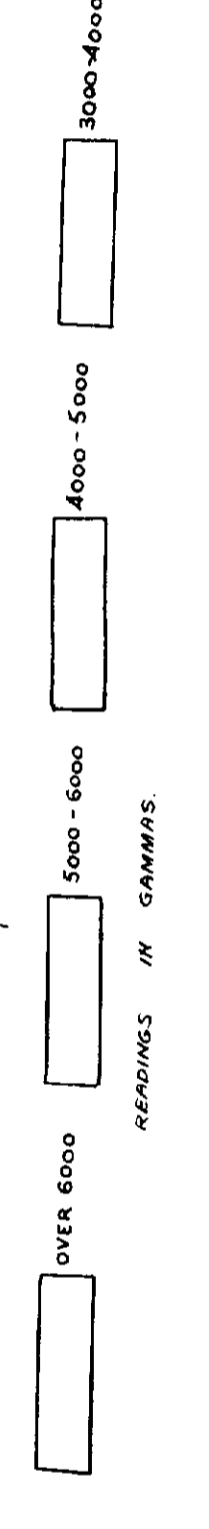
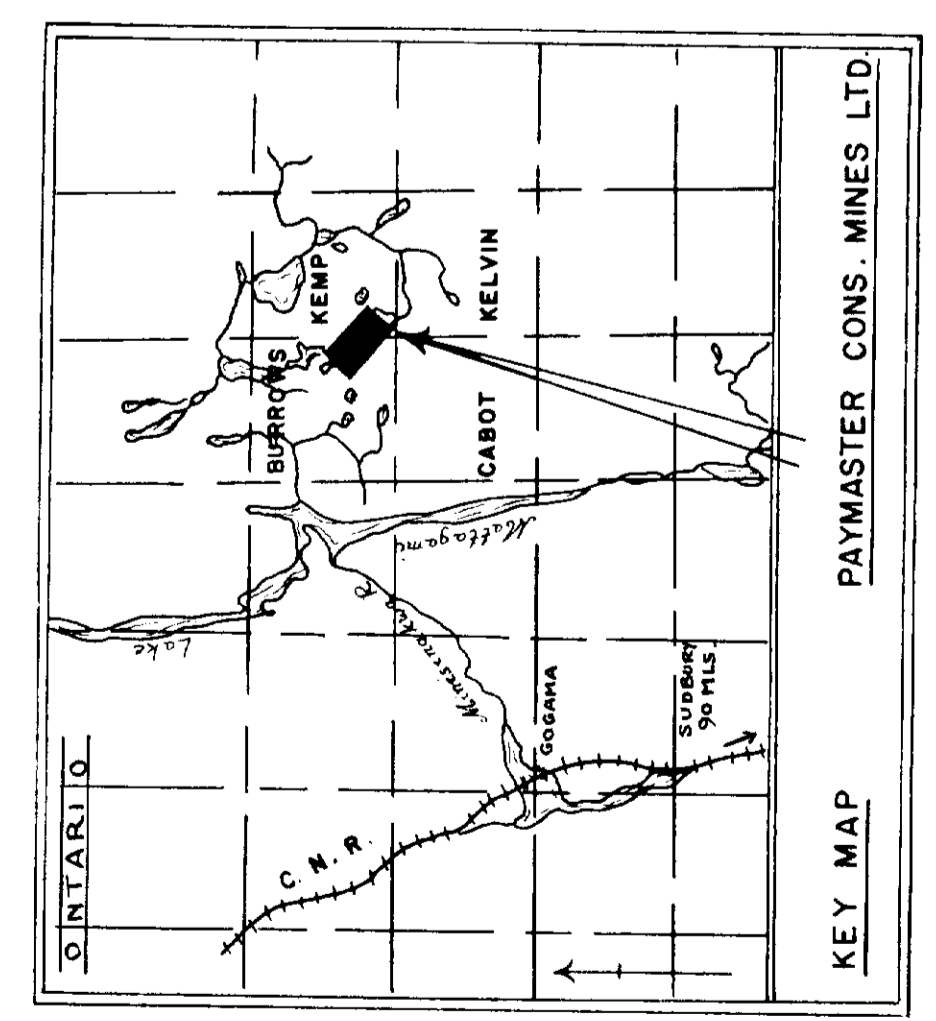
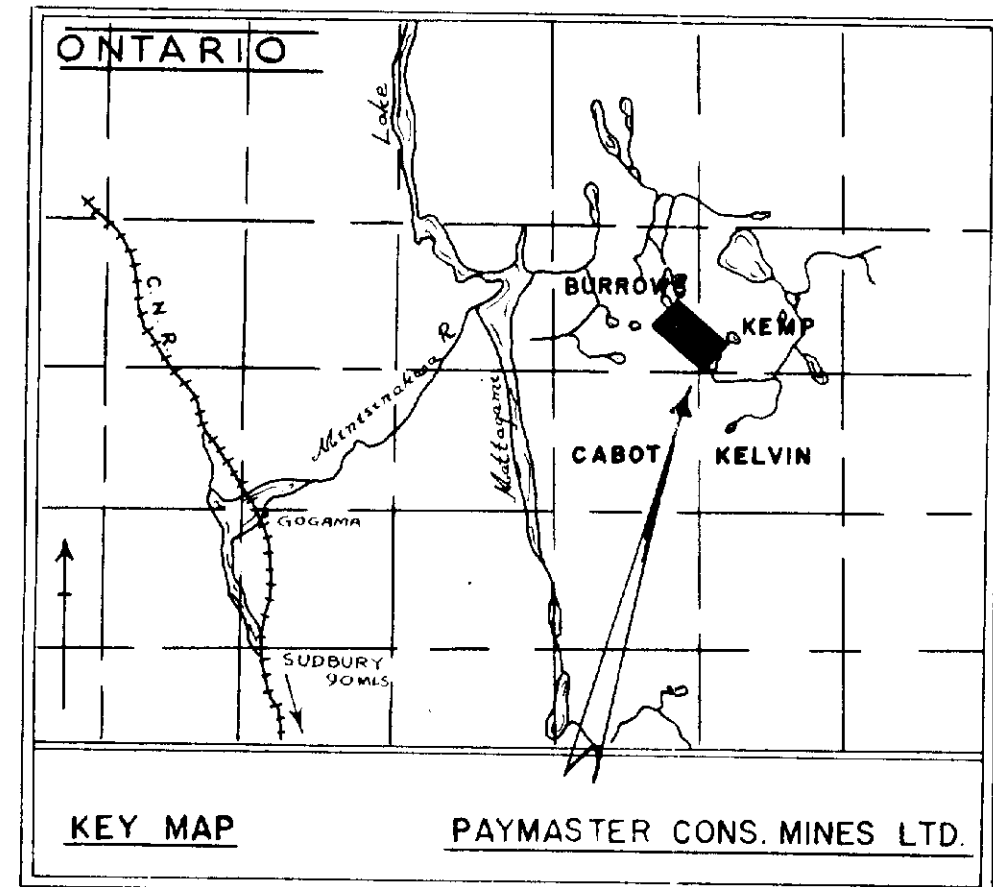
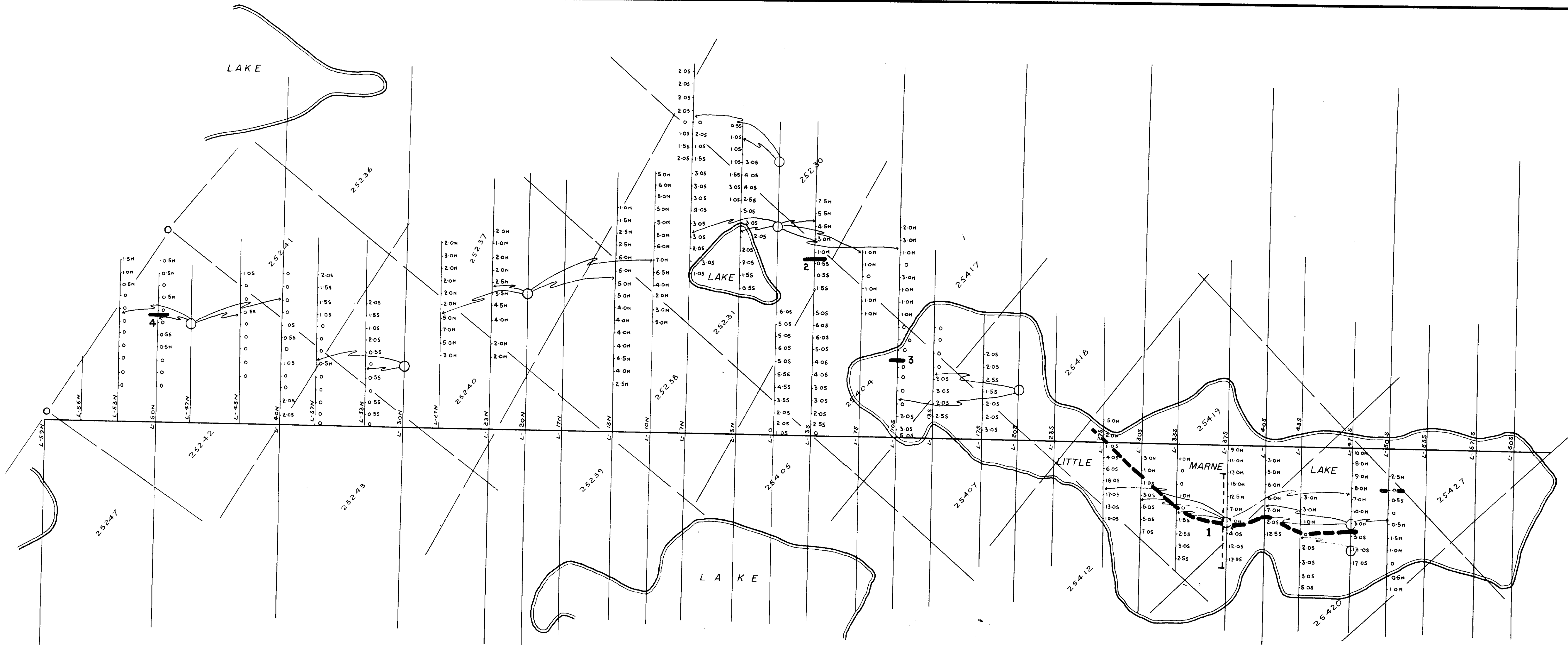


PLATE 1





# PAYMASTER CONSOLIDATED MINES LIMITED

BURROWS & KEMP TWPS.

ONTARIO

## ELECTROMAGNETIC CHECK SURVEY



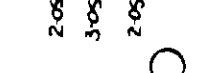
SHARPE GEOPHYSICAL SURVEYS LIMITED

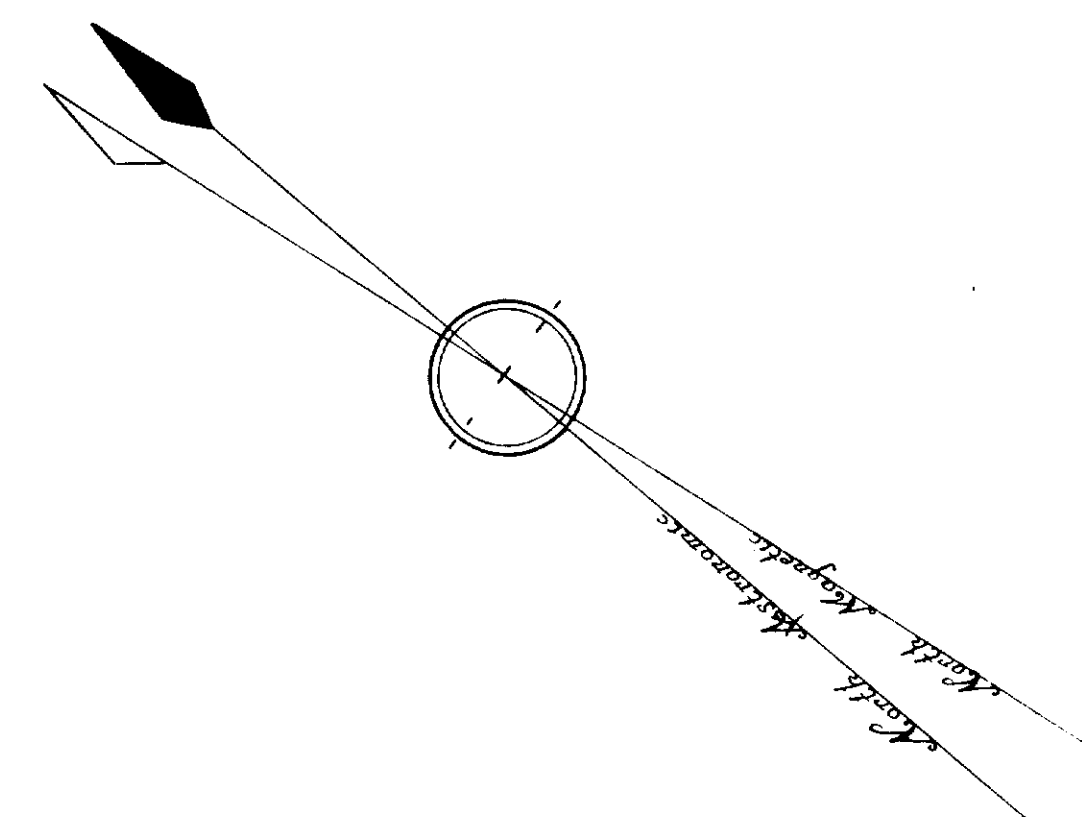
TORONTO

CANADA

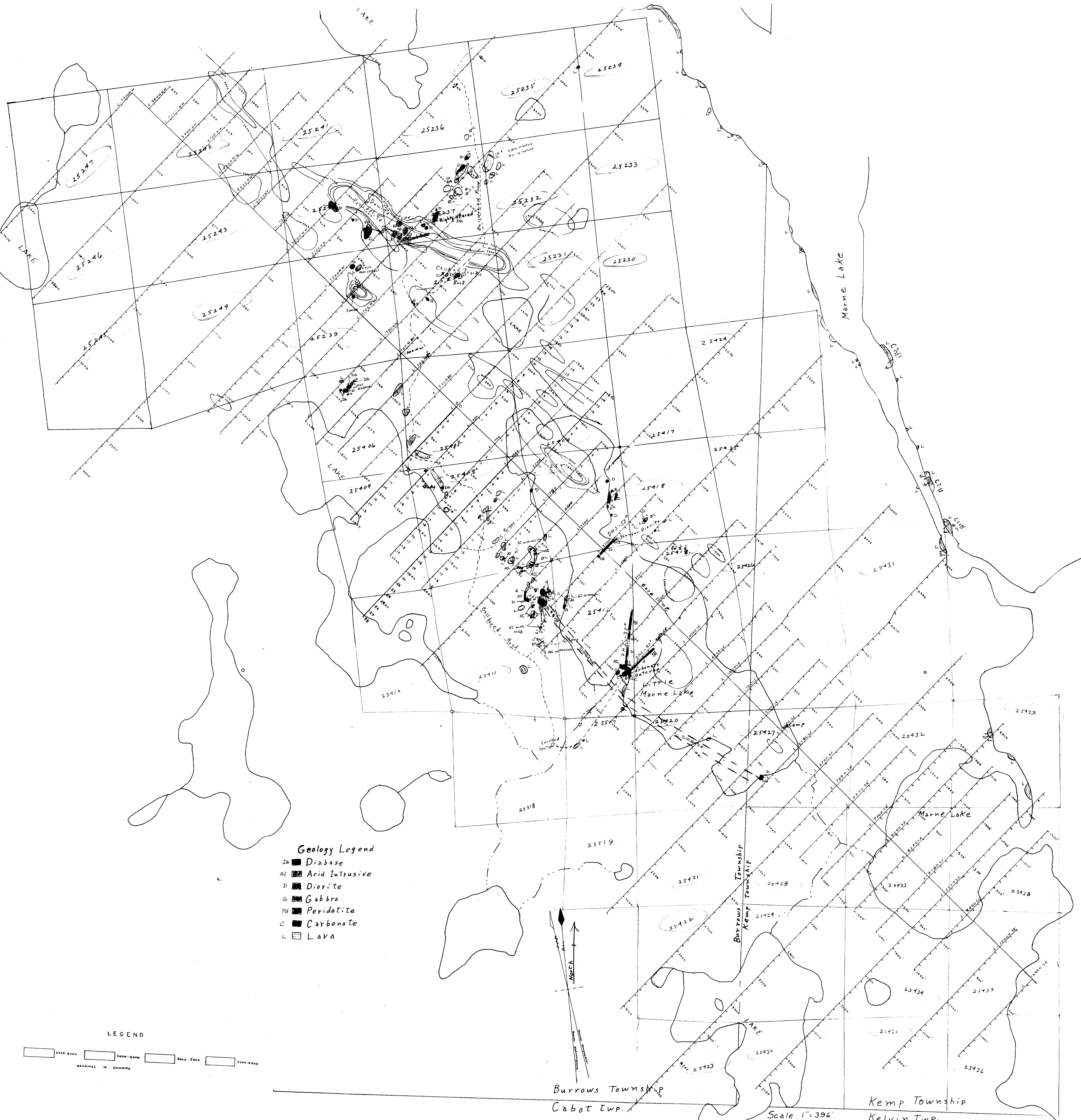
Scale 1" = 400ft

### LEGEND

-  ELECTROMAGNETIC CONDUCTOR
-  ELECTROMAGNETIC DIP - DEGREES.
-  TRANSMITTER SET-UP



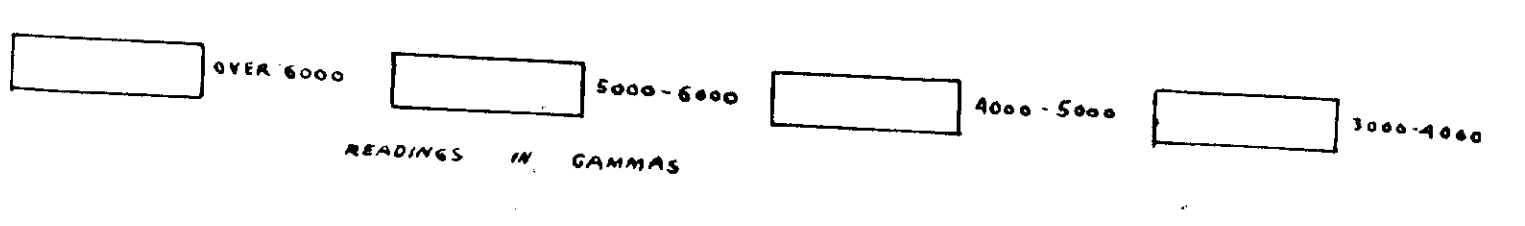




**Geology Legend**

- D<sub>b</sub> ■ Diabase
- AI ■ Acid Intrusive
- D ■ Diorite
- G ■ Gabbro
- Pd ■ Peridotite
- C ■ Carbonate
- L ■ Lava

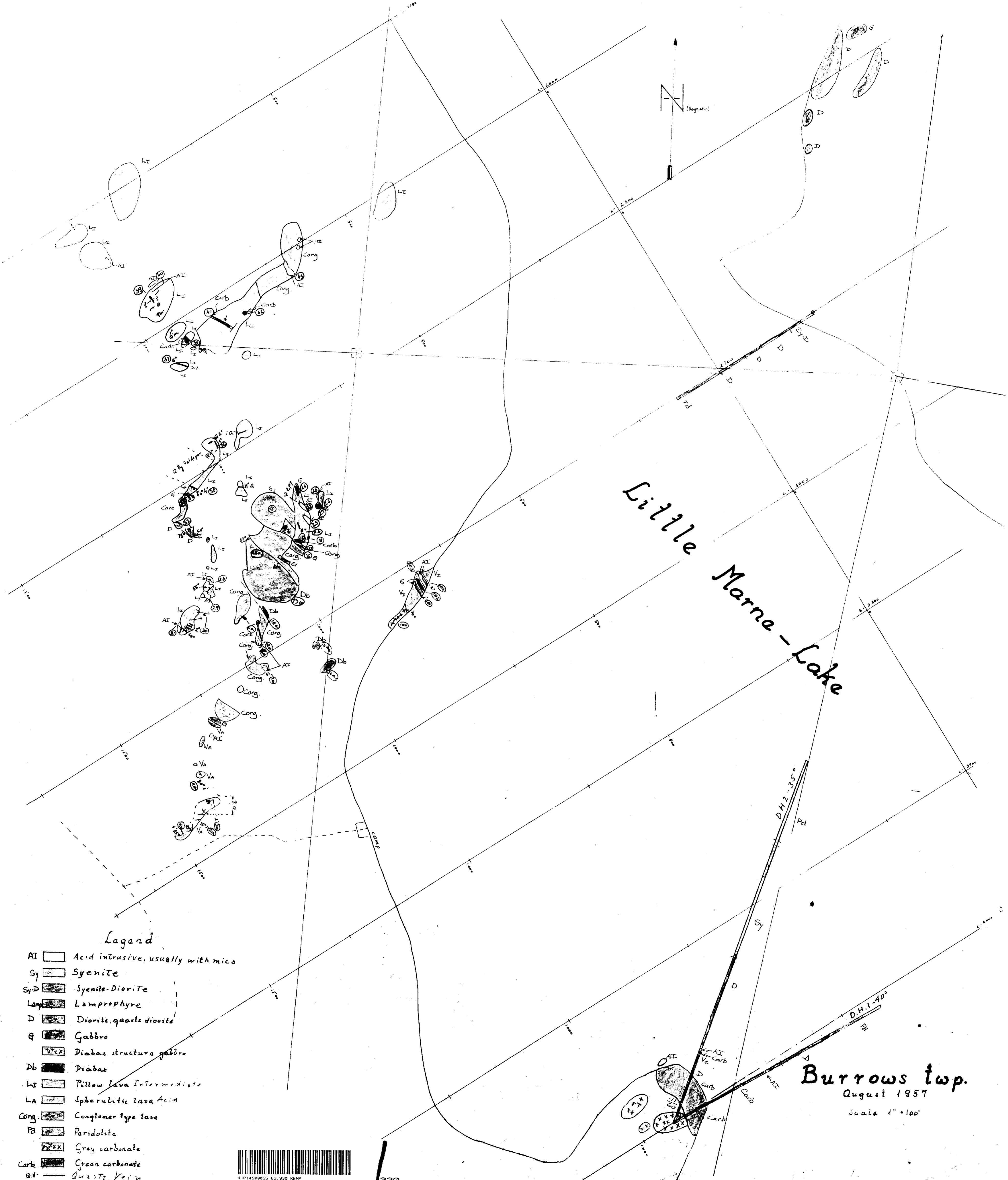
**LEGEND**



Burrows Township  
Cabot Twp.

Scale 1"=396'

Kemp Township  
Kelvin Twp.

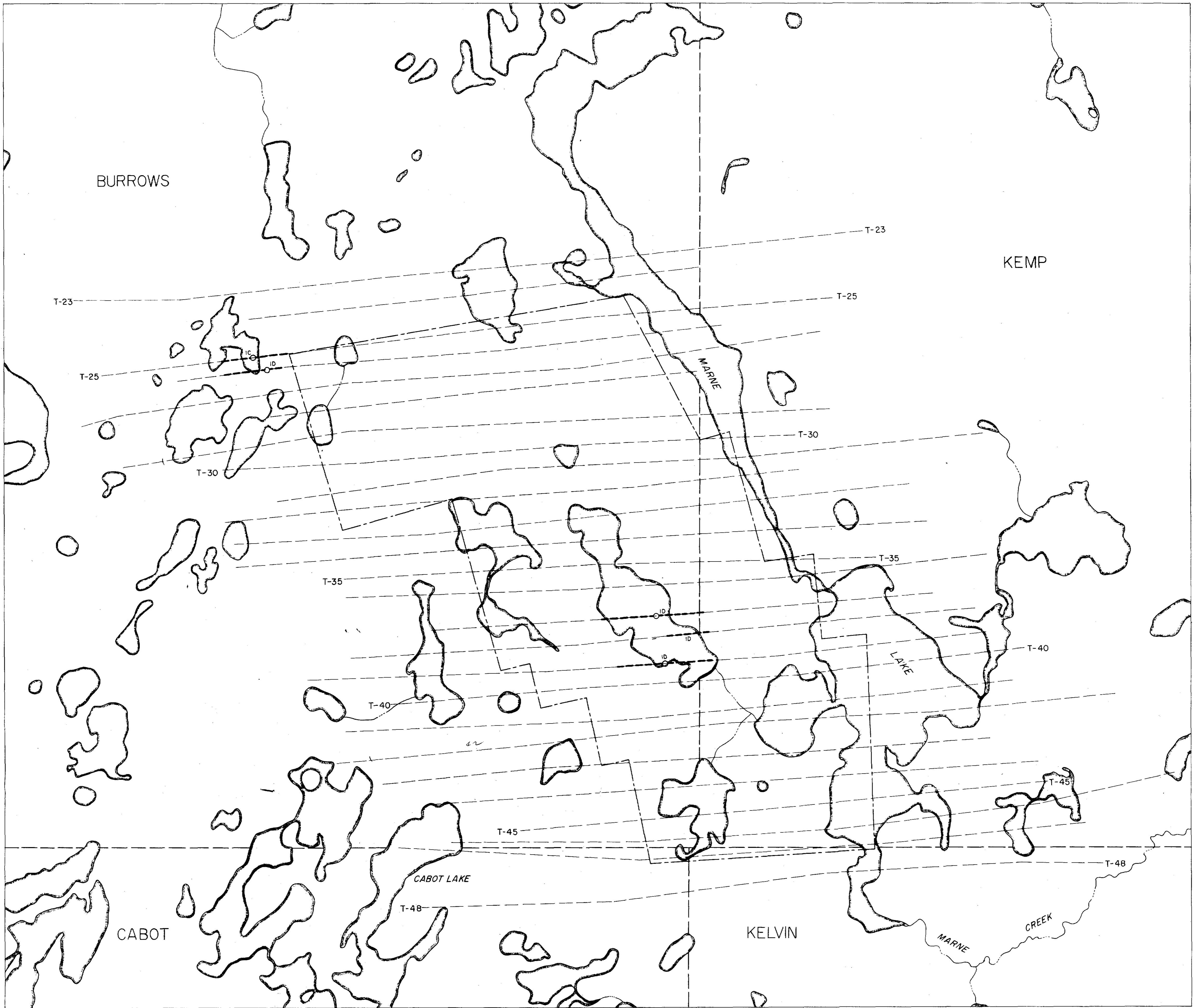


Legend

- AI  Acid intrusive, usually with mica
- Sy  Syenite
- Sy-D  Syenite-Diorite
- Lamp  Lamprophyre
- D  Diorite, quartz diorite
- G  Gabbro
- Diabas structure gabbro
- Db  Diabas
- LI  Pillow lava Intermediate
- LA  Spherulitic lava Acid
- Cong  Conglomer type lava
- Pa  Peridotite
- Gray carbonate
- Carb  Green carbonate
- Q.V.  Quartz Vein



Burrows twp.  
August 1957  
Scale 1" = 100'





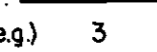
AIRBORNE ELECTROMAGNETOMETER SURVEY

### MARNE LAKE AREA

ONTARIO

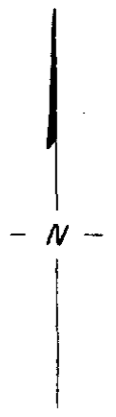
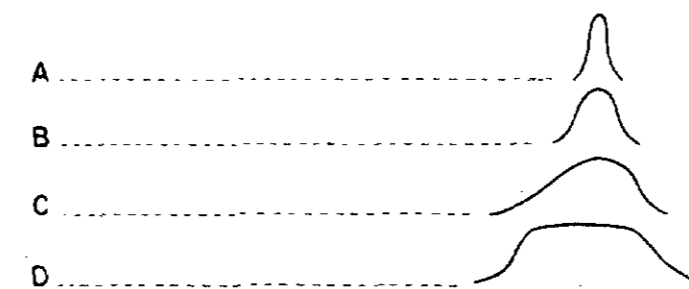
PAYMASTER CONSOLIDATED MINES  
LIMITED

SCALE: 1 INCH TO 1320 FEET (APPROXIMATELY)

LEGEND  
 MEAN TERRAIN CLEARANCE.....500 FEET  
 MEAN TRAVERSE INTERVAL.....1/8 MILE  
 LENGTH AND PEAK OF ANOMALY.....  
 LENGTH AND PEAK OF POSSIBLE ANOMALY.....  
 FLAT RESPONSE.....  
 RELATIVE AMPLITUDE OF RESPONSE.....(eg) 3  
 (10=1% OF PRIMARY FIELD)

HORIZONTAL CONTROL BASED  
ON AN UNCONTROLLED MOSAIC

SHAPE OF RECORDED RESPONSE



AEROPHYSICS OF CANADA LIMITED

