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GEO-INDICATORS FOR GOLD AND GOLD CLASTS WITHIN McGARRY TOWNSHIP, ONTARIO (32D/4)

On behalf of

LEE - CANICO - TG JOINT VENTURE

BY:

Lee Geo-Indicators Limited
Hulbert A. Lee, Ph.D., P.Eng.
July 1975

94 Alexander Street
Box 68
Stittsville, Ontario
KOA 3GO

Tel: (613) 836-1419

SUMMARY

1. Two source areas are recognized for gold within the Joint Venture claims of McGarry Township from basal till sampling. They are both independently determined by gold clasts and by other geo-indicators which include blue-black vein quartz, chlorite clasts, and quartz-carbonate-sulphide clasts. Both anomalies are strong.

2. The northern gold zone is open both to the east and north. It fits, likely, into a downfaulted block near a junction of two shears. Recommendation is made here for additional basal till sampling, line cutting, and staking, and some additional biogeochemical sampling to further limit and ensure that the Joint Venture holds the mineral rights over extensions.

3. The central gold anomaly is open to the east and extends into land held by prospectors Forbes and Leahy. Option arrangement with these prospectors is recommended.

4. Surface rights for the Joint Venture claims are held by the Township of McGarry as part of a Centennial land improvement area. Negotiations are needed to either acquire or option those parts overlying the gold anomalies and their extensions.

5. The biogeochemical results available by the end of July will better define the outlines of the gold zones. Some additional biogeochemical coverage will also be desirable to cover extensions to the gold zones as they become better known.

6. Prospecting is recommended of the low bedrock exposure areas within the indicated source areas for gold. Some backhoe trenching and use of water pumps will assist in the prospecting.

7. Drilling along line 24, both north and south, at a low angle from site D597 should give an intersection across the indicated gold structure.

I N T R O D U C T I O N

Exploration for gold using basal till was carried out in McGarry Township, Ontario, during June of 1975 by Lee Geo-Indicators Limited acting as manager for the Lee-Canico-TG Joint Venture. H. A. Lee and S. A. Scott were on the site from June 1st to July 4th, 1975, and they closely supervised all phases of the work from sampling, gold panning, superpanning, to microscope counts for gold and identification of gold host-rock geo-indicators.

Authority to do this work is given in the Agreement dated March 11, 1975 and signed by representatives of Lee Geo-Indicators Limited, Canadian Nickel Company Limited, and Texasgulf Canada Limited. Work was approved under the Initial Budget dated May 20, 1975.

Two baselines were cut and chained (0 + 00 north, and 39 + 00 north) and two cross-lines were completed (L - 0 east and L - 8 east) before the line-cutters quit. Progress was too slow; two men completed less than 1500 feet a day due to terrain of low outcrop in swamp, very dense undergrowth and blackflies at their worst with daily rains. A decision was made to flag the remaining lines and chain them and these lines are shown dashed on the accompanying maps.

PREVIOUS WORK

Selection of this area in McGarry Township for gold follow-up is an outcome of results from a basal till reconnaissance survey.[1] Two anomalous gold zones showed, one in Otto Township and another, this one, in McGarry and McVittie Townships. The follow-up work reported here and shown on the accompanying maps is in the eastern part of a 4-mile long anomaly within McGarry Township. The reconnaissance work had picked up two localities in McGarry which showed boulders in basal till exposed by dynamited pits about 10 ft. x 10 ft. x 4 ft. deep and in which geo-indicator boulders assayed low gold values. One of these pits was bulk sampled and 2 gold clasts per cubic foot of basal till were recognized.

The expected distribution of gold clasts in basal till is given by an earlier orientation study done over the main Kirkland Lake Break.[2] The orientation study shows clearly that the Pleistocene glaciers clearly sampled the bedrock surface and left this sample on the stoss side of low outcrops. The levels of gold in the samples were measured by Lee (Figure 1) at more than 5 clasts of gold per 1.3 cubic foot of basal till immediately "down-ice" of the bedrock source, then 2 to 5 clasts of gold at a distance of 2000 feet "down-ice" to nil or non-detected at a distance of 5000 feet "down-ice".

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[1] Lee, H.A. (1974): Basal till gold explorations in Larder Lake Mining Region, Ontario, 42 A/1, 32 D/4 on behalf of Lee Geo-Indicators Limited; Company Report.

[2] Lee, H.A. (1963): Glacial fans in till from the Kirkland Lake Fault: A method of gold exploration; Geol. Surv. Canada Paper 63-45.

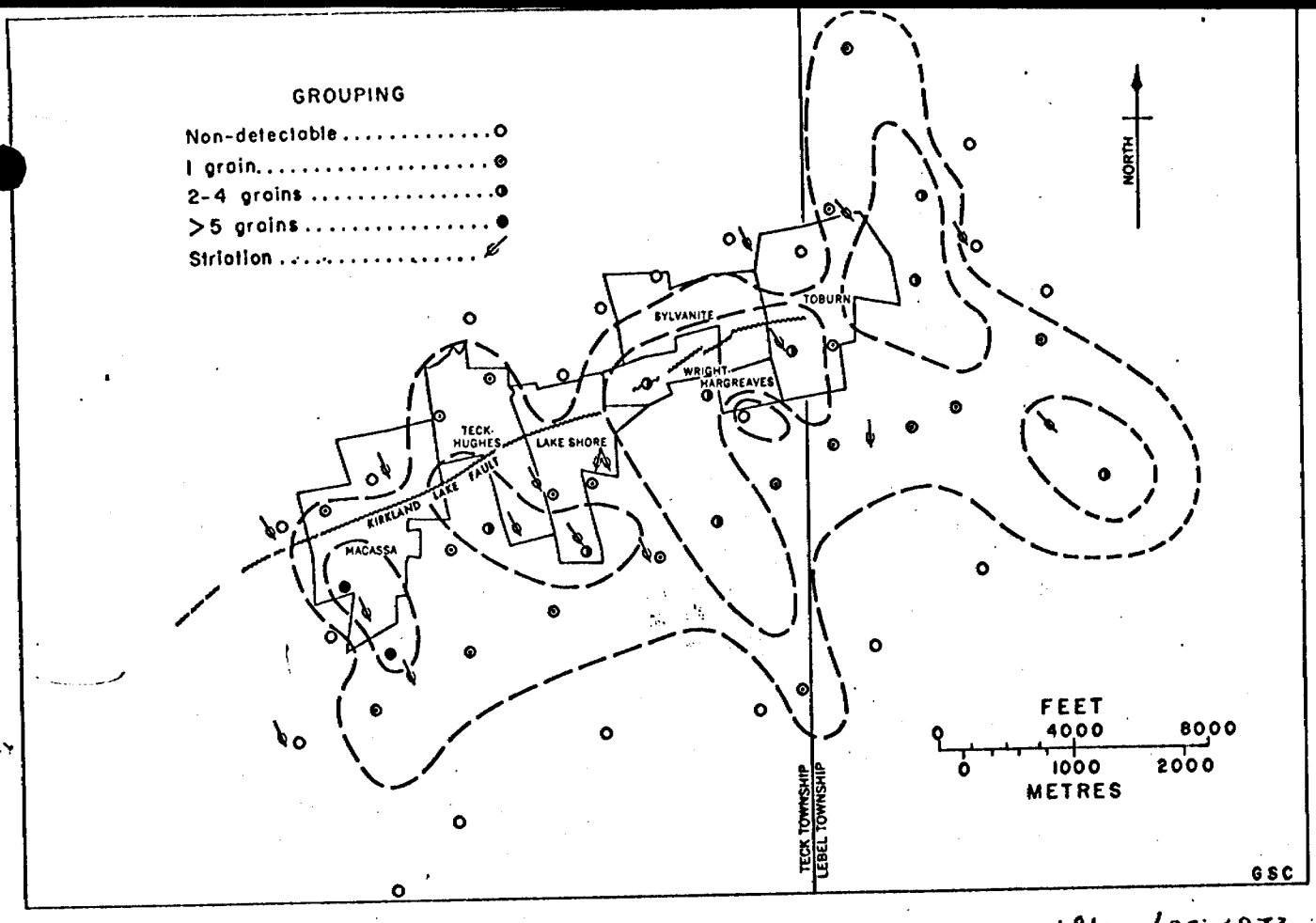

Figure 1 Gold grains visible to unaided eye in riffle concentrate from till. After Lee, 1973

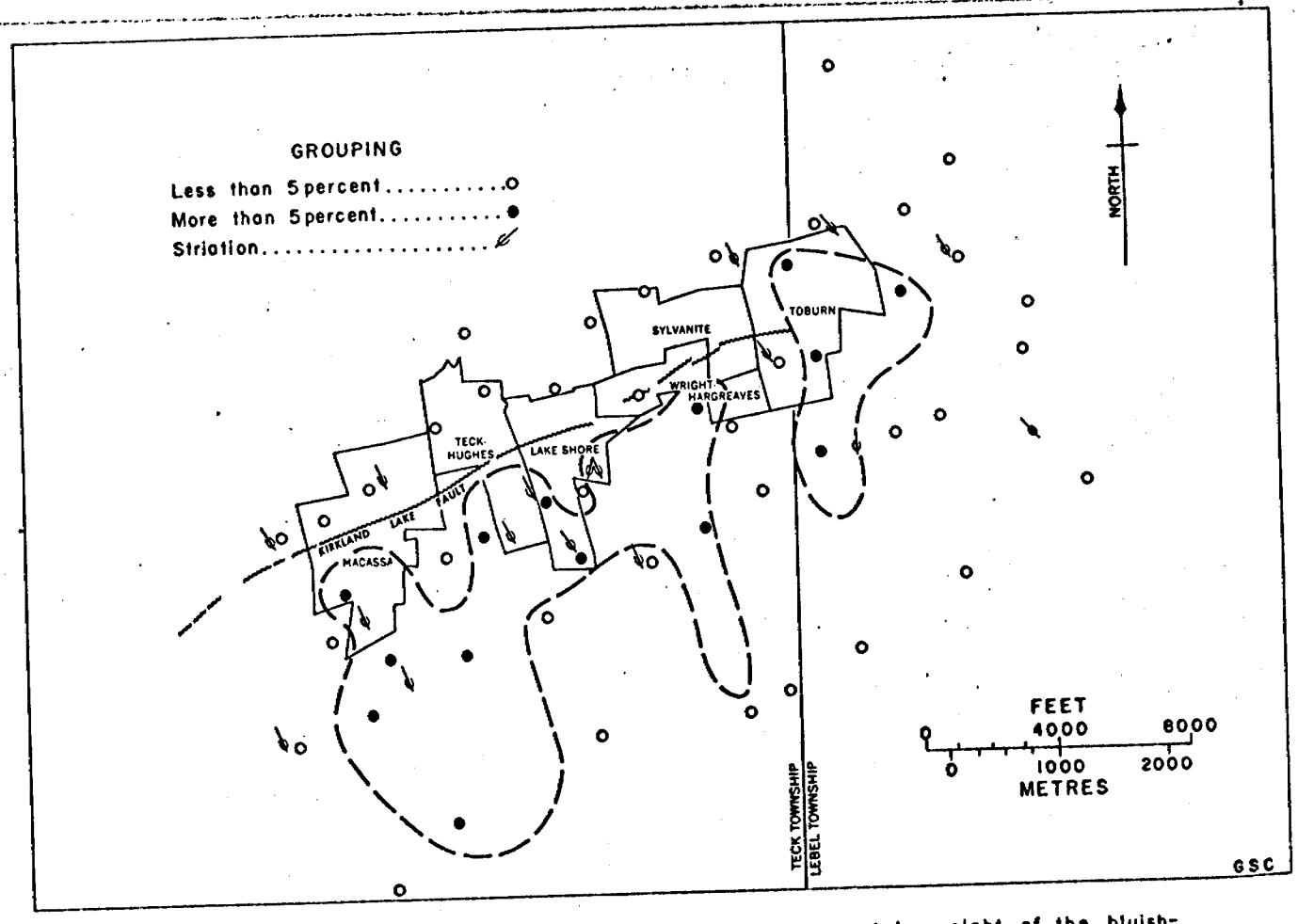

Figure 2 Bluish-black vein quartz in till, size 3.4 mm to 8mm. (percent by weight of the bluish-black vein quartz to the weight of total vein quartz in this size range). After Lee, 1973

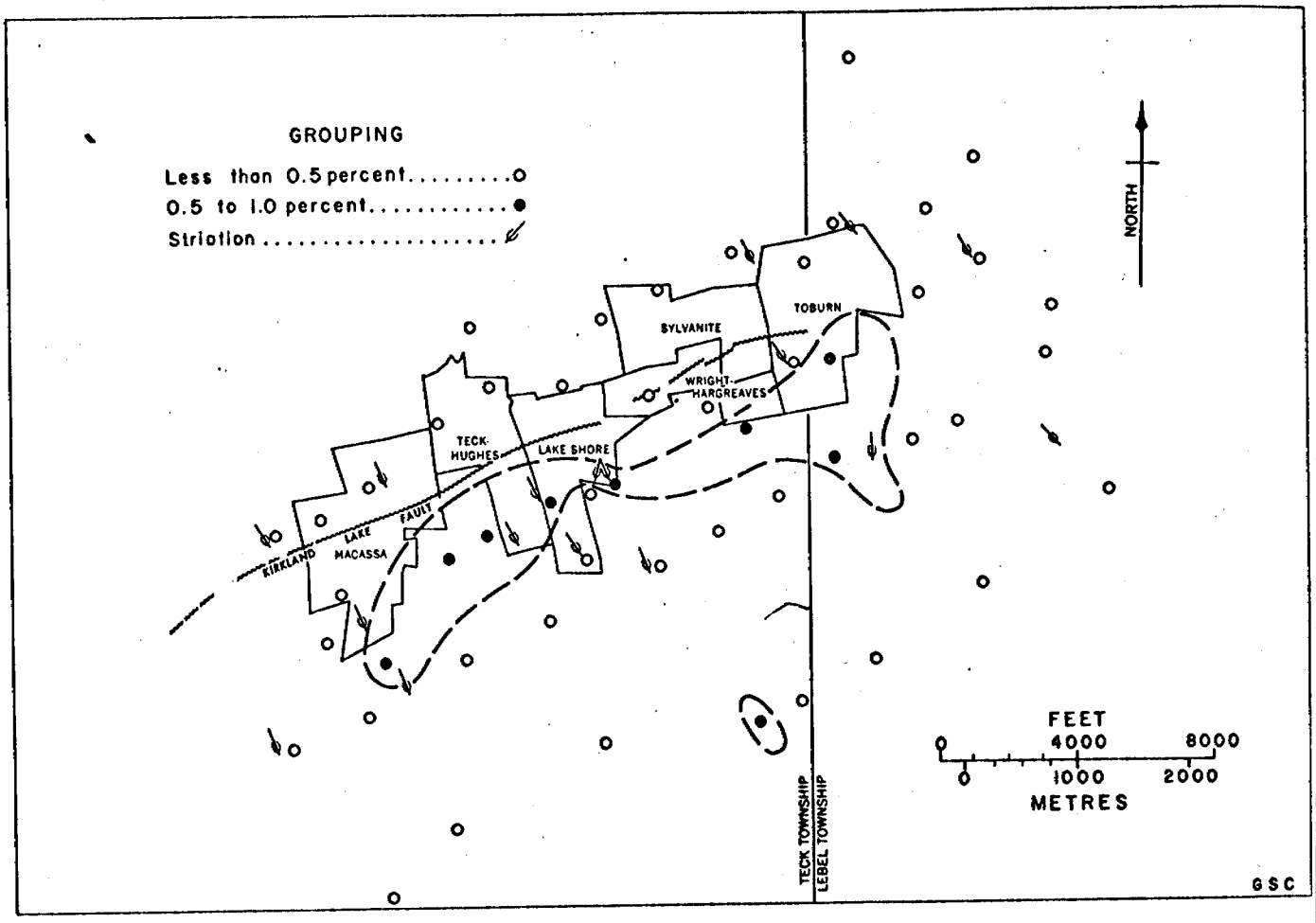

Figure 3.6 Chlorite fragments in till by number percent, 8 to 16 mm sizes. After Lee, 1973

Other geo-indicators besides gold established for the Kirkland Lake, Upper Canada, Beaverhouse, and Kerr Addison mines and directly applicable to McGarry Township are (1) blue-black vein quartz, (2) porcelanic quartz, (3) chlorite, (4) quartz-carbonate-sulphide veins, (5) bleached and otherwise altered rocks. The important gold clasts, blue-black vein quartz, and chlorite distributions established from the orientation study for the Kirkland Lake Break are shown in Figures 1, 2 and 3. These serve as a guide to an interpretation of the present results shown on the accompaying maps for McGarry Township. It is important to recognize that many gold camps in this part of Ontario have two gold populations; one is free gold which is usually coarse and visible to the unassisted eye, the other is gold contained as blebs within pyrite and this is usually microscopic. Most of the ore from Kirkland Lake and Upper Canada Mines occurs as blebs in sulphides, hence microscopic identification is essential for good detection.

Outcrop geology of McGarry Township is given in a report and map at a scale of 1 inch to 1000 feet by Thompson.[3] The rocks are chiefly Temiskaming sediments occurring as conglomerate, greywacke and arkose; and Keewatin volcanics as trachyte and andesite. There is minor syenite porphyry.

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[3]Thompson, Jas. E. (1941): Township of McGarry, Ontario Department of Mines, Annual Report 1941.

SAMPLING AND ANALYTICAL METHODS

Sampling was done using an 800-foot grid oriented along former ice-flow with an azimuth of 165 degrees. The basal till was searched out, dug for, pronounced on, and sampled. The one-cubic foot bulk sample was either carried on a back-pack to a central zone for panning, or panned at the nearest pond. Volume of the sample was reduced by panning to about 5 pounds. A dispersing and wetting agent, calgon, was used to prevent loss of very fine gold during panning. Concentrates from the panning were further treated at the central field laboratory by super-panning. A long, narrow tail was obtained with one grain thickness, of chiefly magnetite and gold. Identification of the gold clasts was then made directly over the superpanner using a binocular microscope. All gold clasts were scanned, identified and counted as either coarse clasts or fine clasts, and recorded. The heavy mineral concentrate was then stored for possible further geochemical analysis for additional elements.

The technique for a person to pan very fine grained gold requires one to four weeks of training. The graduate prospector on this job, Bryan McKenzie, had one week of solid, continuous training at Haileybury School of Mines and a second week at McGarry Township before proceeding with the samples from the present area. His work is of good quality and production ranges from 2 to 3 samples (each a cubic foot) per day, depending on the amount of cementation in the samples. Mr. McKenzie picked out the geo-indicators for gold and set them aside for further examination by a geologist. A suite of the rock types from each sample site was set aside for examination if needed when an anomaly showed up.

Special geology experience, which takes from two months to several years to attain, is needed to "feel basal till under one's feet" at a depth of two to six feet where pits will then be dug and pronouncements made on the material when encountered. Basal till in McGarry Township stratigraphically underlies (1) a cover of organic roots, (2) gravels and sands of glacial lake wave action, and (3) varved clays and silts. The basal till rests directly on a shaped, polished bedrock surface. Topographically the basal till is best found on the stoss side of a glacially shaped bedrock ramp and within twenty feet of the outcrop. Any further distance usually means that the basal till is down too deep to reach by hand pitting. An experienced geologist with a knowledge of till and glacier mechanics can, with the help of an assistant, obtain as many as five bulk samples per day, whereas a geologist inexperienced with till, along with an assistant, is found to average less than one sample per day.

RESULTS

The accompanying map of "Geo-Indicators for Gold in Basal Till" outlines three zones of host rock anomalies. The important geo-indicator of blue-black vein quartz which successfully outlines the gold source over the known Kirkland Lake Break (Figure 2) is present in all of the three new indicated source areas in McGarry Township. The coarse pieces of blue-black vein quartz remain in place, hence define source locations well, even when the till was partly reworked by glacial lake wave action.

The geo-indicator of porcelanic quartz, which was found to be useful at the Upper Canada Mine, is extensively distributed over most of the

McGarry area and is not sufficiently discriminating to be useful in the present study, hence no plot of it is given here.

Chlorite is an excellent geo-indicator for the Kirkland Lake Main Break (Figure 3) and in McGarry it shows as a strong anomaly stretched "down-ice" along lines 16 and 24.

Vein type material composed of combined quartz, carbonate (ankerite, dolomite, calcite) and oxidized sulphides (reddish goethite after pyrite) show strong "down-ice" stretching in the central gold source zone, and is present in a part of the northern gold zone.

The accompanying map of "Gold Clasts in Basal Till" shows four gold source anomalies. Three of these match and support the geo-indicator anomalies. In the central zone along lines 24, 32, 40 and 48 the contour of over 5 gold clasts outlines values of 6 to 15 gold clasts per cubic foot of basal till. This is a strong gold zone. Many of the gold clasts are fine-grained but there are also coarse clasts in samples from along lines 24 and 48. It needs to be mentioned here that gold must be present in the till to show up, but because it is not always possible to find basal till that has not undergone some wave washing there is always the possibility of some concentration due to downfiltering of gold into the till next to bedrock. Therefore counts of, say, 15 gold clasts per cubic foot may not be more important than, say, counts of 9. Accordingly, a 5-count contour is used on the maps.

The characteristics of those gold clasts alone line 56 east differ both in shape and size from those observed elsewhere within the claim block. These, along line 56, are very fine grained and three-dimensional in contrast to saucer shapes of those from other parts. This three-

dimensional shape means likely that the gold weathered in the till from pyrite and did not undergo flattening against pebbles.

CONCLUSIONS AND RECOMMENDATIONS

The reconnaissance basal till sampling which showed low gold assays on geo-indicator rocks has successfully directed the follow-up to where gold anomalies were found in the present study. Combined plots of geo-indicators and gold clasts in basal till, shown on the accompanying maps, outline two strong gold zones. The strength and distribution of (a) the gold, (b) blue-black vein quartz, (c) chlorite, and (d) quartz-sulphide-carbonate compares favourably with results of the orientation study over the main Kirkland Lake Break, an important structure which has given rise to a long successful history of gold production. This is most encouraging.

The source areas outlined for gold in bedrock have been drawn on the accompanying maps to lie just "up-ice" from the greater than 5 gold contour and the northern limit is placed about 1000 feet "up-ice" to accommodate the assumed faults shown on the Ontario Department of Mines geology maps. The indicated northern gold source and the indicated central gold zone are distinguished by different characteristics of the gold.

Some additional basal till sampling is needed south of the railway (BL 39 + 00 N) along cross lines 24 to 32 east so as to obtain a northern cut off for the Central zone. However, a main control for the mineralized structure will come from the biogeochemical sampling which has been completed but results are not available at the time of this re-

port. The biogeochemical work was done across the position of the assumed faults. It is an area of sphagnum moss swamp with a spruce tree cover. No outcrop nor inorganic soil is known within 5 feet of the surface, but there are some encouraging signs of colloidal limonitic springs.

The northern indicated gold zone has a source which coincides with a likely down faulted block lying between two intersecting shears. All 2 bulk samples of till "down-ice" from this block are strongly anomalous in gold and a fourth sample which had some problems during panning may also be added.

More basal till sampling and analysis is needed to control the limits to the north and east. This will lead to additional staking. More biogeochemical work will be needed to cover these gold extensions. Line cutting and chaining is also recommended for both the existing flagged lines over the anomalies and over the extensions to the anomaly.

The gold anomaly in the central zone is open to the east where it extends into land held by prospectors Forbes and Leahy. Recommendation is made here to obtain an option on the 4 claims held by the prospectors and to extend the basal till sampling across these claims. Some additional line cutting will be required.

It may be desirable to initiate drilling along line 24 from an outcrop near site 597 with a low angle hole southwards along the grid for 800 feet, and another hole northwards along the grid for 800 feet. The area between sample sites 597 and 596 to the south has a series of blue-black quartz veins across a zone 25 feet wide and one chip sample across a single vein shows trace gold. Biogeochemical results will assist in defining the gold source. Prospecting of the indicated source area has not been done and this is recommended. Estimates of overburden thickness

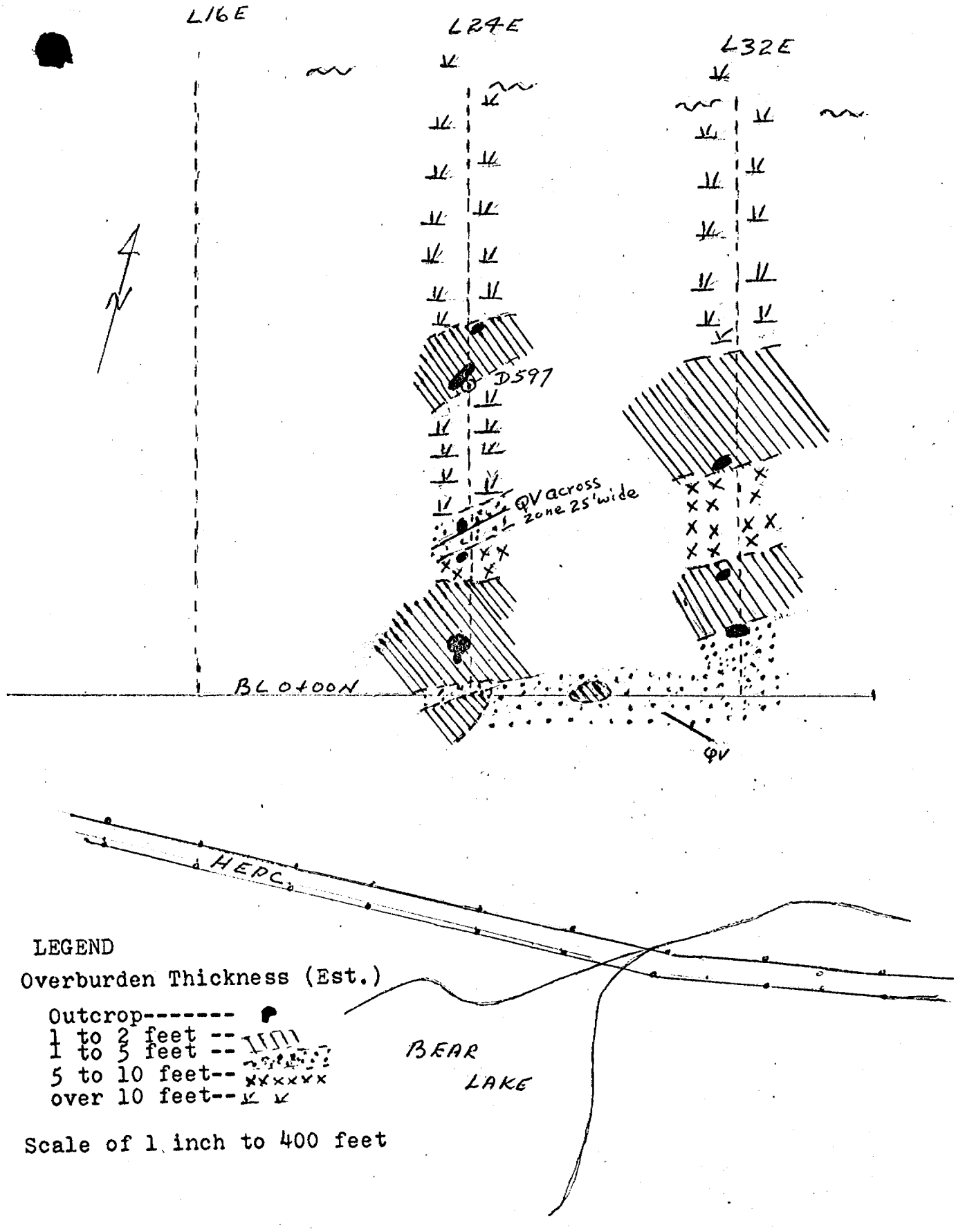

FIGURE 4. THICKNESS OF OVERBURDEN ALONG CROSS LINES 24east and 32 east, McGARRY TOWNSHIP, ONTARIO

are given in Figure 4. It is possible with a backhoe and water pumps to prospect a considerable amount of bedrock across the indicated source area.

Land titles over the Joint Venture claims are separated from the mineral rights. It is recommended here that negotiations be opened with McGarry Township, holder of the surface rights, for either purchase or option of the land rights over the anomalous gold zones and their extensions.

Lee Geo-Indicators Limited

Hulbert A. Lee * Qualification: 2.1625 6 also on this file
PhD., P.Eng.
July 1975

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BIOGEOCHEMICAL SURVEY OVER SHEAR ZONES

McGARRY TOWNSHIP, ONTARIO (32 D/4)

On behalf of

LEE-CANICO - TG JOINT VENTURE

By:

Lee Geo-Indicators Limited
Susan A. Scott, B.Sc., M.Sc.
August 1975

94 Alexander Street
Box 68
Stittsville, Ontario
K0A 3G0

Tel: (613) 836-1419

CONTENTS

SUMMARY

1. Two gold source areas are interpreted from basal till sampling by H.A. Lee in his report "Geo-Indicators for Gold and Gold Clasts within McGarry Township". This biogeochemical survey gives evidence for strong shear zones which cross Lee's indicated "northern" and "central" source areas.

2. The biogeochemical survey consists of a) the sampling of vegetation at 50-foot intervals along selected lines within the property, b) the analysis of these samples for seven different elements (Cu, Pb, Zn, Ag, Cr, As and Au), and c) the production of a series of graphs or profiles showing the variation of these elements along the lines. Shear zones are interpreted at points where four or more elements show locally high values.

3. The biogeochemical anomalies are strong to moderate where they coincide with a gold source zone indicated by basal till sampling. Conversely the anomalies are weak to moderate outside a gold source zone. It appears that greater metalliferous activity in a shear zone is associated with the introduction of gold, and this situation is displayed in the vegetation.

4. Very strong biogeochemical anomalies show on the accompanying profiles where they cross a known accumulation of sulphide-rich rock, that is railway ballast from a Cu-Zn-Ag producing mine.

5. A total of 11 diamond drill holes is here recommended, to a maximum of 300 feet each, to test shear zones within the northern and central gold source areas.

6. Biogeochemical work is recommended to produce drill targets within the southern gold source zone.

7. Additional till sampling on lines 32E and 24E south of the railway tracks is recommended to give a westerly limit to the northern gold zone, and to give a northern cut-off to the central gold zone.

8. Additional claims have been acquired to cover the projection of the northern and central zones to the north and east. More line cutting will be needed across this new ground.

9. Till sampling and biogeochemical profiling is here recommended to explore the newly acquired ground.

10. The gold source areas should be prospected and geologically mapped either before or as a follow-up to drilling, in order to gain knowledge of the geological situation, possibly to extend known zones and produce additional drill targets.

INTRODUCTION

A biogeochemical survey was done during June of 1975 by S.A. Scott of Lee Geo-Indicators Limited. The purpose of the biogeochemical survey was to combine results with those of a basal till survey (Lee, 1975) to pinpoint drill targets.

Lee, H.A. (1975): Geo-Indicators for gold and gold clasts within McGarry Township; Lee-Canico-TG J.V. Report.

An orientation survey over the Kirkland Lake Main Break has demonstrated that the sampling of vegetation and analysis for Cu, Pb, Zn, Ag, Cr, and As will produce profiles showing an anomaly over such a mineralized fault or shear zone.

The area being explored in McGarry Township shows many similarities to the producing areas of the Kirkland Lake Main Break, or fault zone. It is expected that gold known to be present in McGarry will also be associated with fault zones.

Biogeochemical sampling was carried out over selected areas of an 800-foot grid situated north of Bear Lake and Highway 66 and near the west boundary of McGarry Township. The claims are held by Lee Geo-Indicators Limited, In Trust. The profile lengths were selected to cover the approximate location of faults shown on the 1-inch to 1,000-foot ODM map #50 a(Thompson, 1941).

Thompson, J.E. (1941): Township of McGarry, Ontario Dept. Mines, Annual Report.)

Sampling was carried out between June 21 and June 26, 1975, and the last analyses were received from Technical Service Laboratories in Toronto on July 24, 1975.

SAMPLING AND ANALYTICAL METHODS

The sampling was carried out by S.A. Scott, project geologist for Lee Geo-Indicators Limited. The position of each profile was chosen to best cover the assumed position of faults as shown on the ODM map and taking into account topographic control and other terrain patterns.

Samples were taken at 50-foot intervals where possible. The presence of the Ontario Northland Railway (ONR-NCR) right-of-way and railway track along the approximate location of the inferred faults, while a convenience regarding bush travel, was an inconvenience regarding sampling procedure. In most cases it was necessary to leave a 100- to 150-foot gap in sampling where the tracks crossed the profile, due to unavailability of sample material.

The actual material samples and the technique of sampling is an industrial secret and will not be divulged. What is important are the graphs which show local increases in the levels of most elements as the faults are crossed.

The samples were analyzed for Cu, Pb, Zn, Ag, Cr, As, and Au by Technical Service Laboratories of Toronto under the supervision of Dr. A.H. Debnam. The following procedures were used: 5 grams of sample are ashed slowly at 400° C in a porcelain dish to get rid of the organic material. The ash is dissolved in 50% HCl. Arsenic is analyzed directly on an aliquot by the usual Gutzeit chromatographic procedure. Gold is determined with another aliquot by atomic absorption after extraction into methyl iso-butyl ketone. Copper, lead, zinc and silver are determined by atomic absorption using the normal air-acetylene flame. A separate ashing of sample is dissolved in dilute aqua regia. This solution is then analyzed for chromium by atomic absorption using a nitrous oxide-acetylene flame.

RESULTS

A series of profiles at 1 inch to 100 feet (horizontal scale) is given in Appendix A. The accompanying map entitled "Biogeochemical Survey over shear zones, McGarry Township, Ontario", shows locations of the samples profiles and anomalies.

Two types of samples were taken, depending on availability. These shall be designated type I and type II. It was generally found that metal values were higher and variations greater in type I profiles, conversely type II profiles tended to be flatter and lower. This may be seen especially on line 8E (26N-37N) and line 48E (3S-9W).

A problem arose because of the railway track in the area. The track runs across the claim group within a low, flat, generally straight swampy area mapped by Thompson as a fault zone and it was this fault zone, among others, that the present survey was intended to locate. Unfortunately, the track is ballasted with waste rock visibly high in sulphides from the Kidd Creek Mine at Timmins, Ontario. This condition is thought to be responsible for 150- to 200-foot wide off-scale anomalies in Cu, Zn, and Ag, and for distinct high anomalies in Pb, As, and Cr over most of the profiles that include the railway track. The only profiles that do not display extremely high anomalies over the track are L40E, L72E, and L80E, and in these the anomalies are still strong. Possibly the ballast in these localities contains somewhat less sulphide. In any case, the high and off-scale anomalies immediately over the tracks have been discounted in the interpretation.

Another probable effect of the sulphide-rich railway ballast is to raise the background level of metal in groundwater over the entire low area, thus to some extent masking other anomalies that might occur over the actual fault zone. Therefore, the criteria for the selection and classification ~~for~~ of

anomalies are:

1. Local increase of a metal value over background level.
2. Simultaneous local increase in most or all of the elements analyzed.
3. Presence of the anomalous values in more than one sample type.

The source areas for gold interpreted from both gold clasts in basal till and from geo-indicators in basal till by Lee are shown on the accompanying map. Taking these source areas into account, the following biogeochemical anomalies are thought to be significant.

Northern Fault Zone

Anomaly "Z": Line 80E, 1 + 75 S, strong, indicating strongly sheared zone distinct from railway track. No till sample was taken down-ice of this location; therefore, no gold source area could be interpreted.

Anomaly "Y": Line 80E, 6 + 25 N, strong, indicating strongly sheared zone, within source area interpreted by gold clasts in till from till samples D619, 700 feet down-ice.

Anomaly "X": Line 72 E, 1 + 50 N, strong, indicating strongly sheared zone, within source area interpreted by gold clasts in till. No till sample was taken down-ice from this locality.

Anomaly "U": Line 56E, 2 + 00 N, weak, indicating weak shear zone, within gold source areas interpreted both from geo-indicators and from gold clasts in till. Lies 600 feet up-ice from till sample containing 17 pieces of gold, blue-black vein quartz, and quartz-carbonate-limonite clasts.

Anomaly "R": Line 48E, 5 + 50 N, strong, indicating strong shear within source areas for gold interpreted by both gold clasts and geo-indicators in till.

Anomaly "P": Line 40 E, 2 + 50 S, strong, indicating strong shear within source areas for gold interpreted by both gold clasts and geo-indicators in till. Lies 150 feet up-ice of till sample D610 containing 8 pieces of gold, blue-black vein quartz and abundant sheared clasts.

The extension of a northeast striking fault zone picked up by anomaly "P" on line 48E probably lies off the north end of the profile on line 40E, which was not carried as far north as it might have been. Metal values for 5 of 6 elements are rising at the north end of this profile.

No strong shears, except the track anomaly, were picked up west of line 40E. All anomalies to the west are moderate to weak and do not fall within gold source areas indicated by till sampling methods.

Central Fault Zone

Anomaly "T": Line 48E, 17 + 00 S, strong, indicating strongly sheared zone within gold source areas interpreted by both till methods. Lies 100 feet south of abundant colloidal limonite in swamp water, and 550 feet up-ice from till sample D 614 containing 15 pieces of gold, blue-black vein quartz and abundant sheared clasts.

Anomaly "Q": Line 40E, 20 + 25 S, moderate, indicating moderately sheared zone within gold source areas interpreted by both till methods. Lies 450 feet up-ice from till sample D607 containing 6 pieces of gold, blue-black vein quartz and abundant sheared clasts.

Anomaly "O": Line 32E, 18 + 50 N, strong, indicating strongly sheared zone within gold source area interpreted from geo-indicators, on northern edge of source area interpreted from gold clasts. Lies 1,100 feet up-ice from sample D 602 containing 2 pieces of gold, blue-black vein quartz, quartz-carbonate-limonite clasts and abundant sheared clasts.

Anomaly "J": Line 24E, 18 + 25 N, strong, indicating strongly sheared zone within gold source area interpreted from geo-indicators. Lies 300 feet up-ice from till sample D598 containing 2 pieces of gold, and blue-black vein quartz.

Anomaly "F": Line 16E, 13 + 50 N, strong, indicating strongly sheared zone which does not fall within gold source areas. Lies 300 feet up-ice from till sample D592 which contains blue-black vein quartz, quartz-carbonate, limonite clasts, and sheared clasts but no gold.

Anomaly "D": Line 8E, 15 + 00 N, moderate, indicating moderate shearing, does not fall within interpreted gold source areas. Lies 800 feet up-ice from sample D586 which contanins no geo-indicators but 1 piece of gold. It is possible that this shear zone could be the source of gold in till samples D586, D579, and D591.

Gold Anomaly: Although gold was analyzed for in all the biogeochemical samples, it was picked up in only one profile, and there in both sample types. Three single point "kicks" and one 3-point anomaly are shown on the northern profile of line 48E.

CONCLUSIONS AND RECOMMENDATIONS

This method of biogeochemical sampling and analysis has, in an orientation study, successfully relocated mineralized fault zones which contained economic gold deposits. When this method is combined with basal till sampling to locate source areas for gold and for mineralogy associated with gold in similar environments, it is possible to come up with drill targets that have not one but several pieces of evidence to support them.

The approximate location of faults mapped by Thompson was useful to have, but not essential, since the source areas for gold interpreted from till sampling are not unreasonably large for profiling. The direction of profiles, preferably at right angles to the presumed source structures, can usually be arrived at approximately using surface lineaments and other topographic control, even in areas completely covered by overburden.

Local increases in metalliferous content of the rocks is transmitted to ground water and hence to vegetation. This is established by the strong anomalies of the railway ballast in the northern part of the area surveyed. While being an inconvenience in terms of background values and resolution of the natural anomalies being sought, these spectacular track anomalies demonstrate proof behind this type of biogeochemical survey.

It was found that the biogeochemical anomalies that were independently classified as strong to moderate, generally fell within the gold source areas indicated by basal till sampling. Where biogeochemical anomalies were independently classified as weak to moderate, they were found generally to lie outside gold source areas. By this method it would then seem possible not only to determine the position of faults or shear zones, but also to add weight to the evidence for gold mineralization in the zones.

On the basis of biogeochemical results combined with till sampling, the following drill targets are recommended:

1. Line 80E; 6 + 25N (step-out 100 ft. N, drill 45°S).
2. Line 72E; 1 + 50N (step-out 100 ft. S, drill 45°N).
3. Line 56E; 2 + 00N (step-out 100 ft. S, drill 45°N).
4. Line 48E, 5 + 50N and 7 + 00N (step-out 100 ft. S, drill 45°N).
5. Line 48E; 1 + 50N (step-out 100 ft. N, drill 45°S).
6. Line 48E; 1 + 00S and 2 + 00S (step-out 50 ft. N, drill 45°S).

7. Line 40E; 2 + 50S (step-out 100 ft. N, drill 45°S).

8. Line 48E, 17 + 00S (step-out 100 ft. S, drill 45°N).

9. Line 40E; 20 + 25S (step-out 100 ft. S, drill 45°N).

10. Line 32E, 18 + 50N (step-out 100 ft. N, drill 45°S).

11. Line 24E, 18 + 25N (step-out 100 ft. N, drill 45°S).

It must be noted that the methods used to explore the McGarry property sample the surface of the bedrock, therefore the drilling targets should be initially explored at this same shallow depth.

It is recommended that additional till sampling be carried out south of the south end of line 80E to explore the shear zone at 1 + 75S. Till should be sampled south of the tracks on lines 24E and 32E in an effort to find a northern limit to the central gold source area, and to explore the western end of the northern source area.

Additional biogeochemical profiling is recommended for the southern gold source areas outlined in the report by Lee, in order to produce drill targets.

Additional line-cutting, till sampling and biogeochemical profiling should be carried out on newly acquired claims to the east and northeast of the property to test extensions of both the northern and central zones.

Some prospecting and more detailed geological mapping of the areas of interest would give a better understanding of the geological situation, and possibly reveal more drill targets. The geological map available at present, ODM-50 a at 1 inch to 1,000 feet is neither accurate nor detailed enough for the future development of this project.

LEE GEO-INDICATORS LIMITED

Susan A. Scott
B.Sc., M.Sc.
August, 1975

CERTIFICATE

I, Susan A. Scott, of the City of Ottawa, Province of Ontario, do hereby certify that:

1. I am a geologist, residing at 15 Carola Street, Ottawa, Ontario, K2G 0X9.
2. I am a graduate of the University of Toronto (BSc. Geol. 1965) and of McGill University (M.Sc. Geol. 1969).
3. I am an associate member of the Geological Association of Canada.
4. I have practiced my profession for a total of three years, excluding academic studies, with the following organizations:
   University of Toronto, Division of Geophysics
   Geological Survey of Canada
   Gepphysical Engineering and Surveys Limited
   McGill University , Department of Geology
   Lee Geo-Indicators Limited.
5. The statements made in this report are based on biogeochemical data obtained by the author in the field, and with reference to ODM report on the geology of McGarry Township.

Ottawa, Ontario
October 9, 1975

S.A. Scott, B.Sc.,M.Sc.

STATEMENT OF EXPENDITURES

The cost of the biogeochemical survey carried out during June, July, and August 1975 on the McGarry property, McGarry Township, Ontario on behalf of Lee-Canico-TG Joint Venture, Lee Geo-Indicators Limited as managers amounted to:

Salaries & 15% fringe benefits	$2,600.00
Travel, board and lodgings	450.00
Line-cutting ($230 + $545)	775.00
Geochemical analyses	3,464.25
Total	$7,289.25

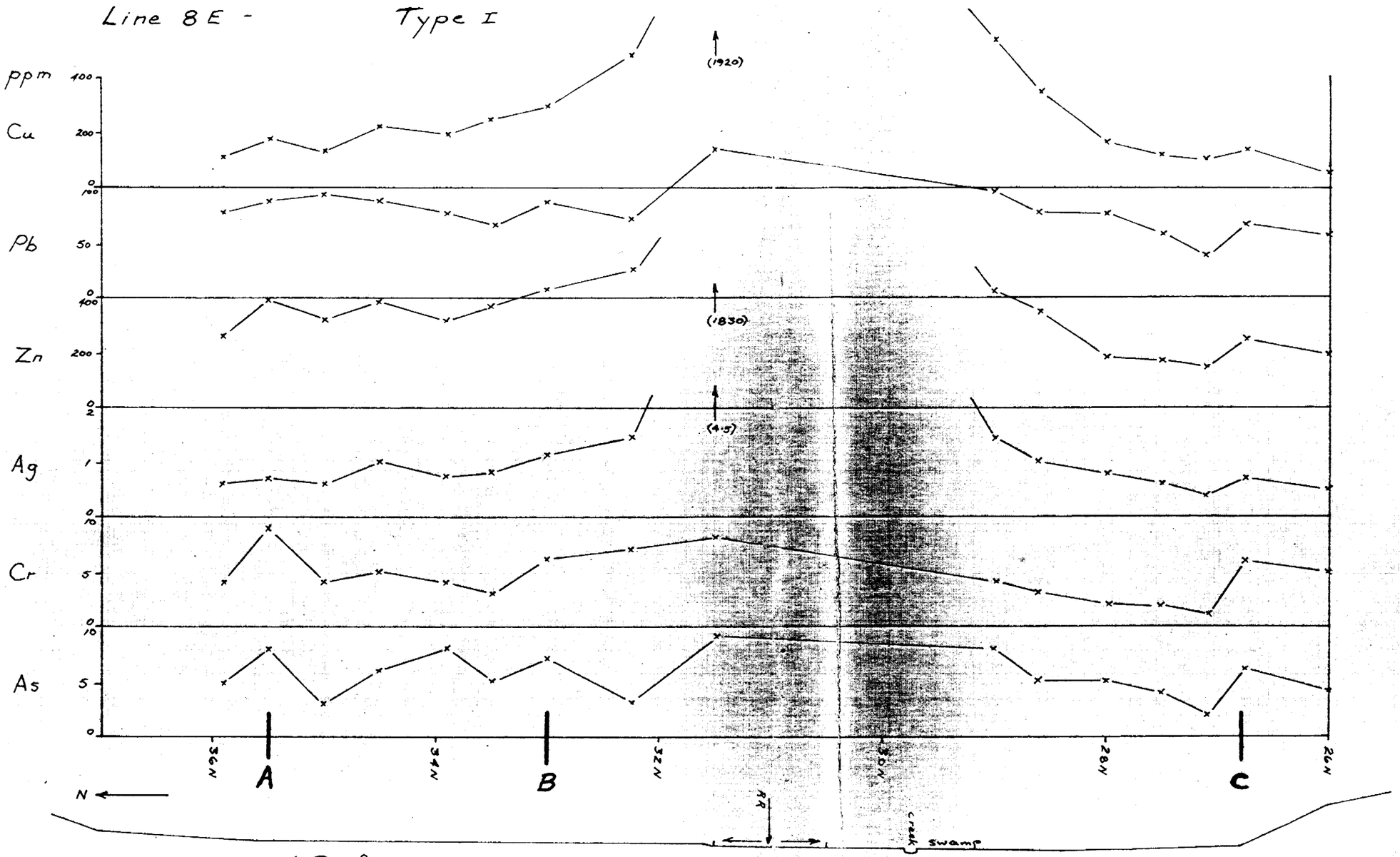
Note: Special equipment for taking samples and sample bags are not included; nor is the travel cost of Dr. H.A. Lee consultant who set up the sampling procedure.

Lee Geo-Indicators Limited
94 Alexander St., Box 68,
Stittsville, Ontario K0A 3G0
October 7, 1975
Katherine A. Lee Sec.-Treas.

APPENDIX I

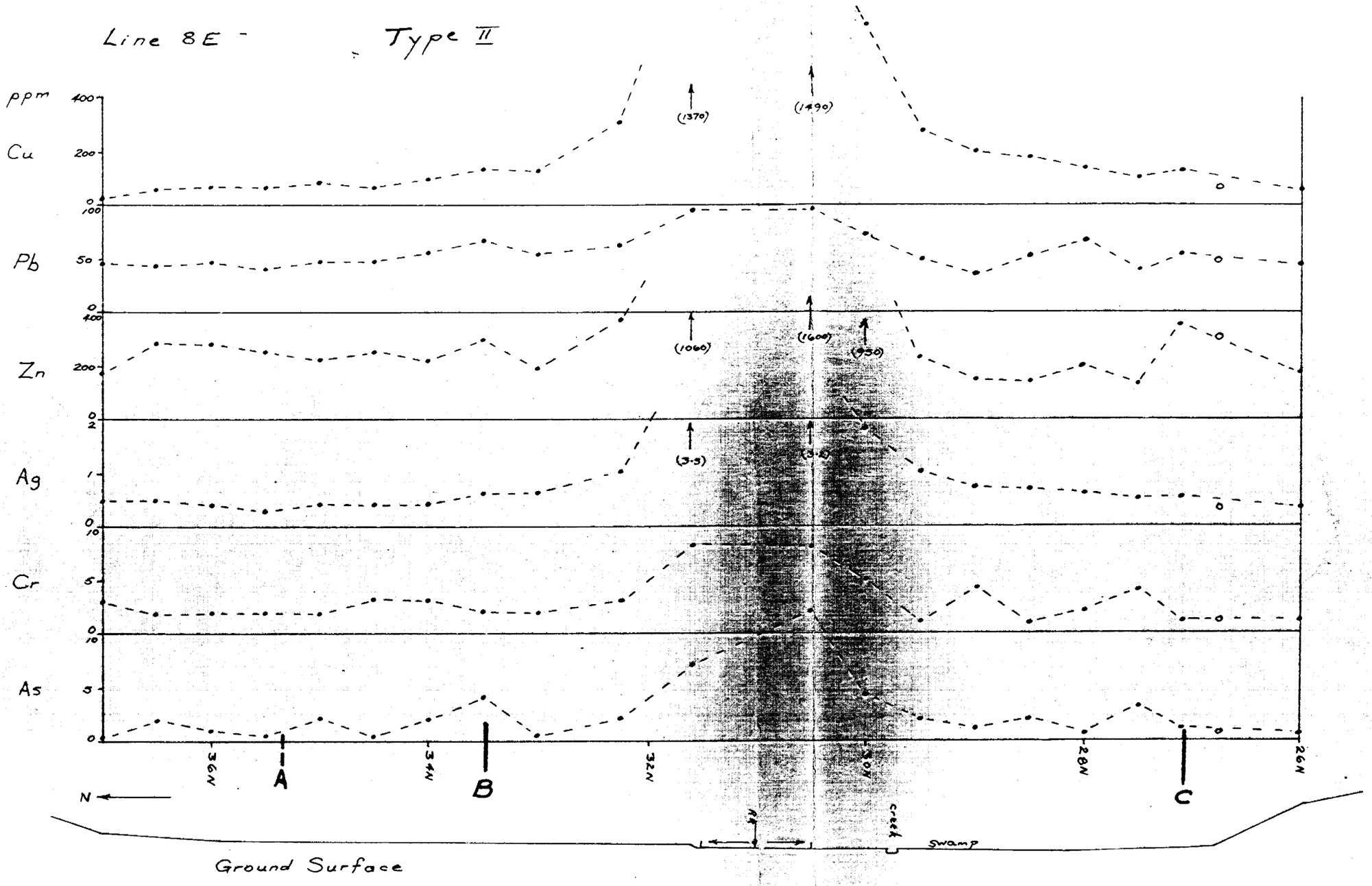
Graphs showing variations in vegetation along lines for Cu, Pb, Zn, Ag, As, Cr, Au

Line 8E - Type I

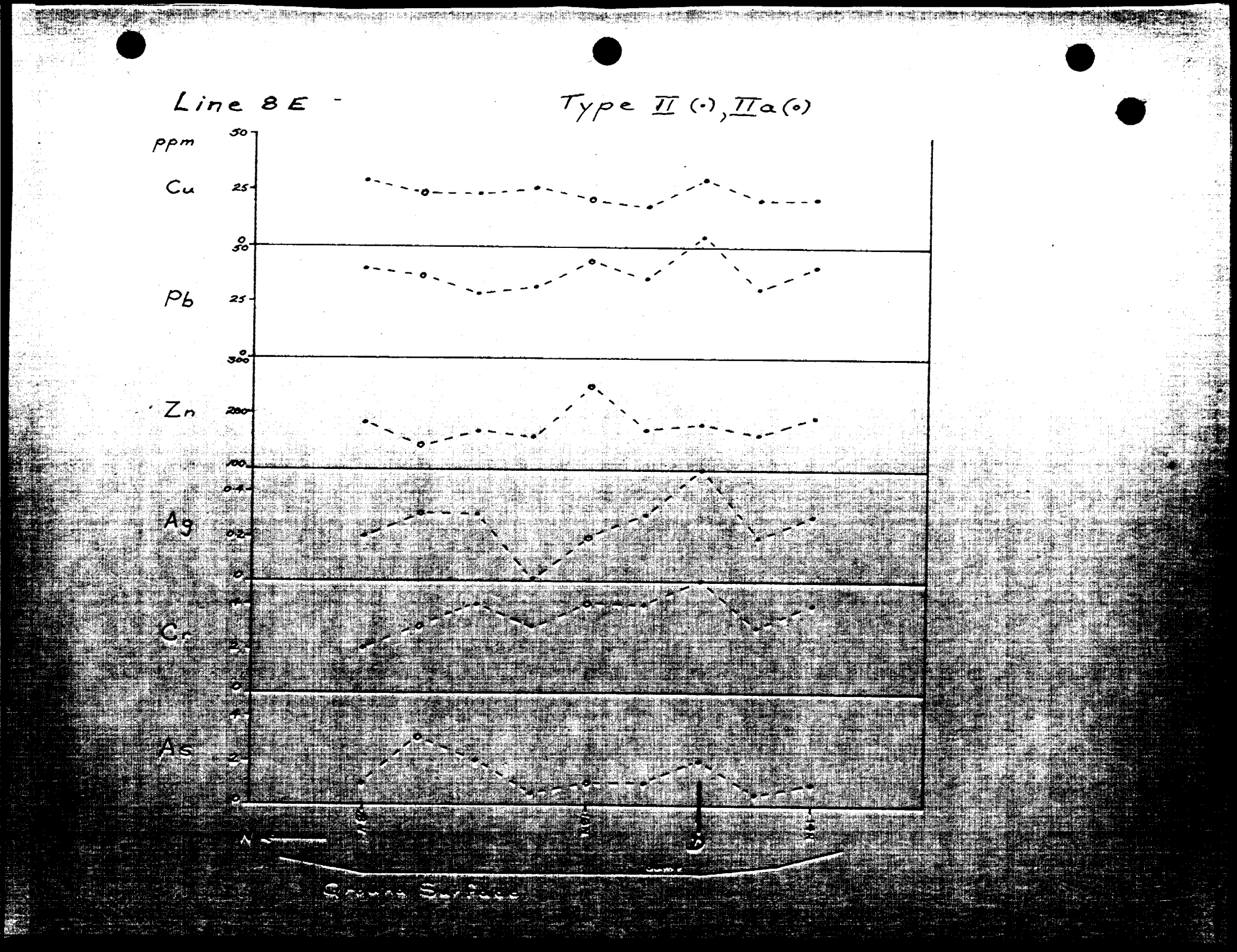


Ground Surface

Line 8E - Type II

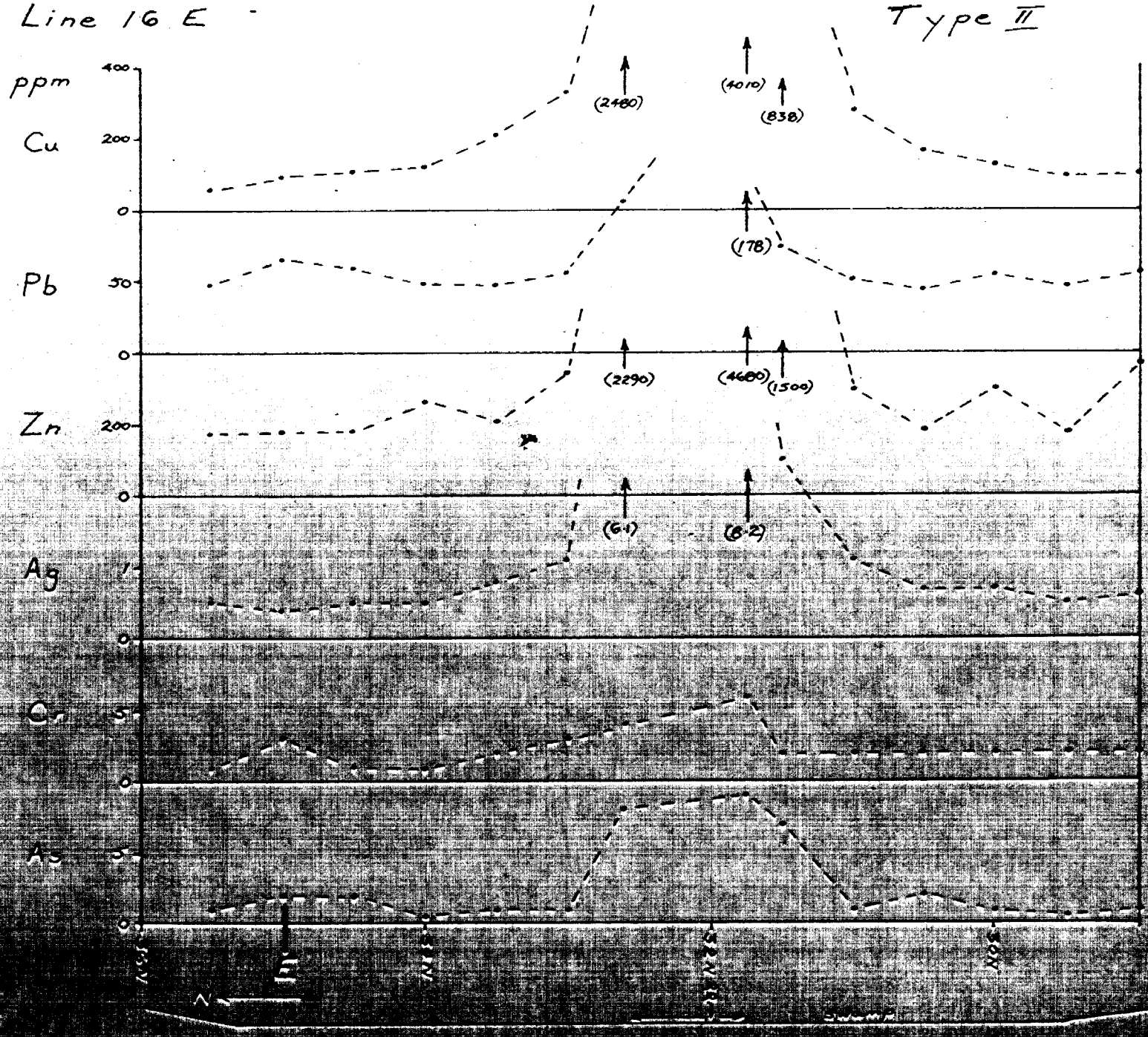


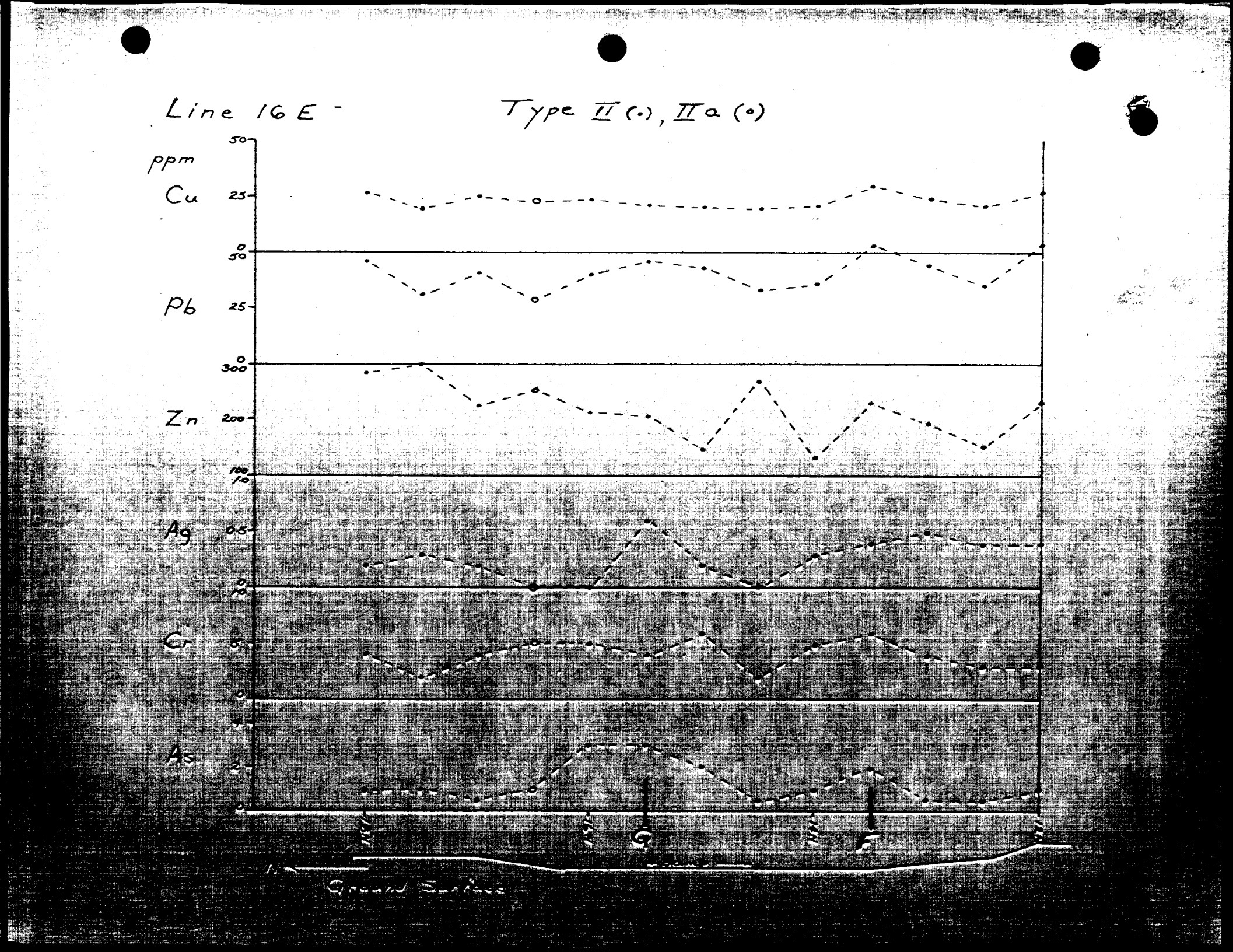
Ground Surface

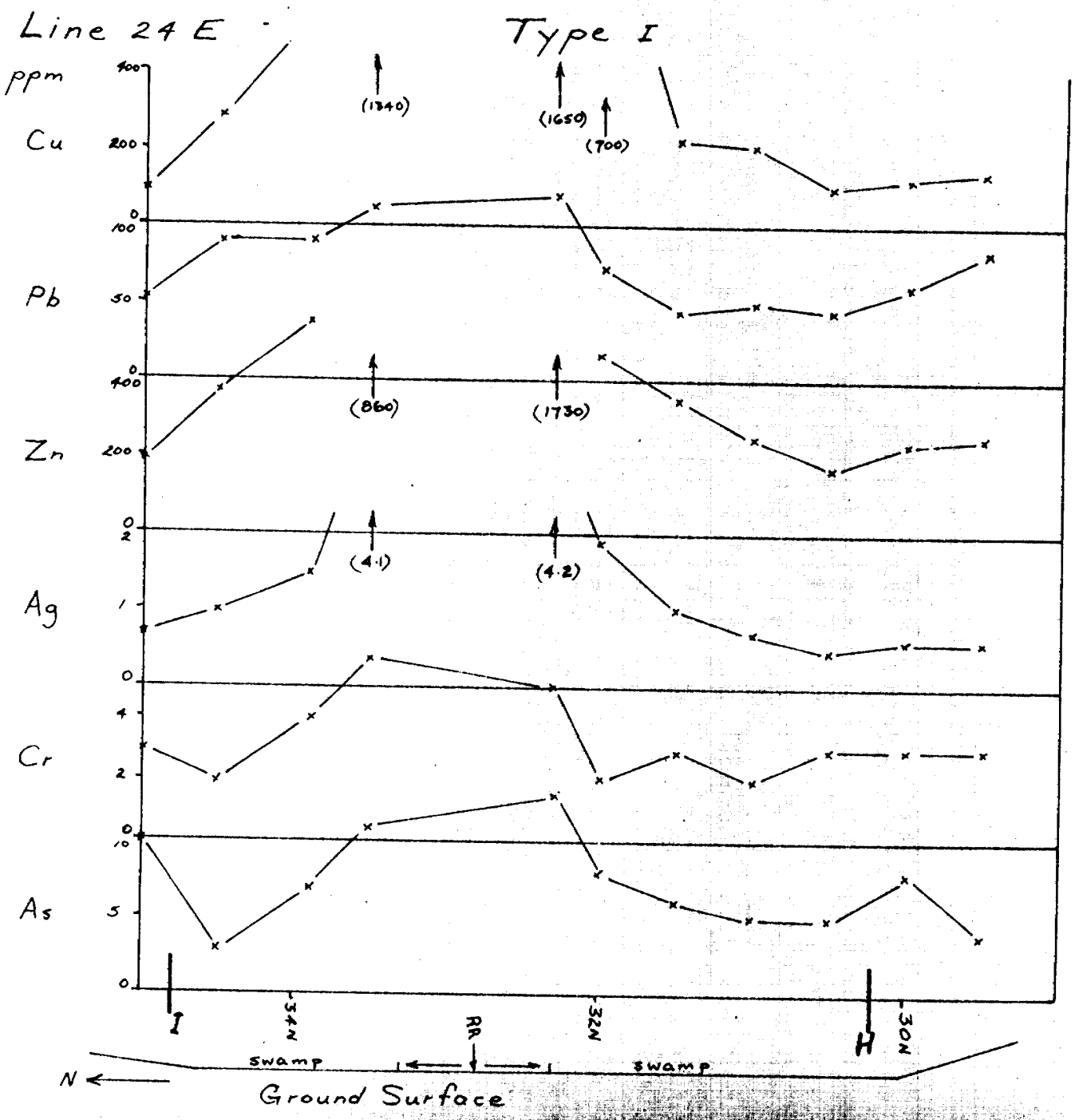

Line 8E
Type II (·), IIa (o)
ppm
Cu
Pb
Zn
Ag
Cr
As
50
25
0
50
25
0
300
200
100
0.4
0.2
0
1.4
2.4
0
4
2
0
Ground Surface

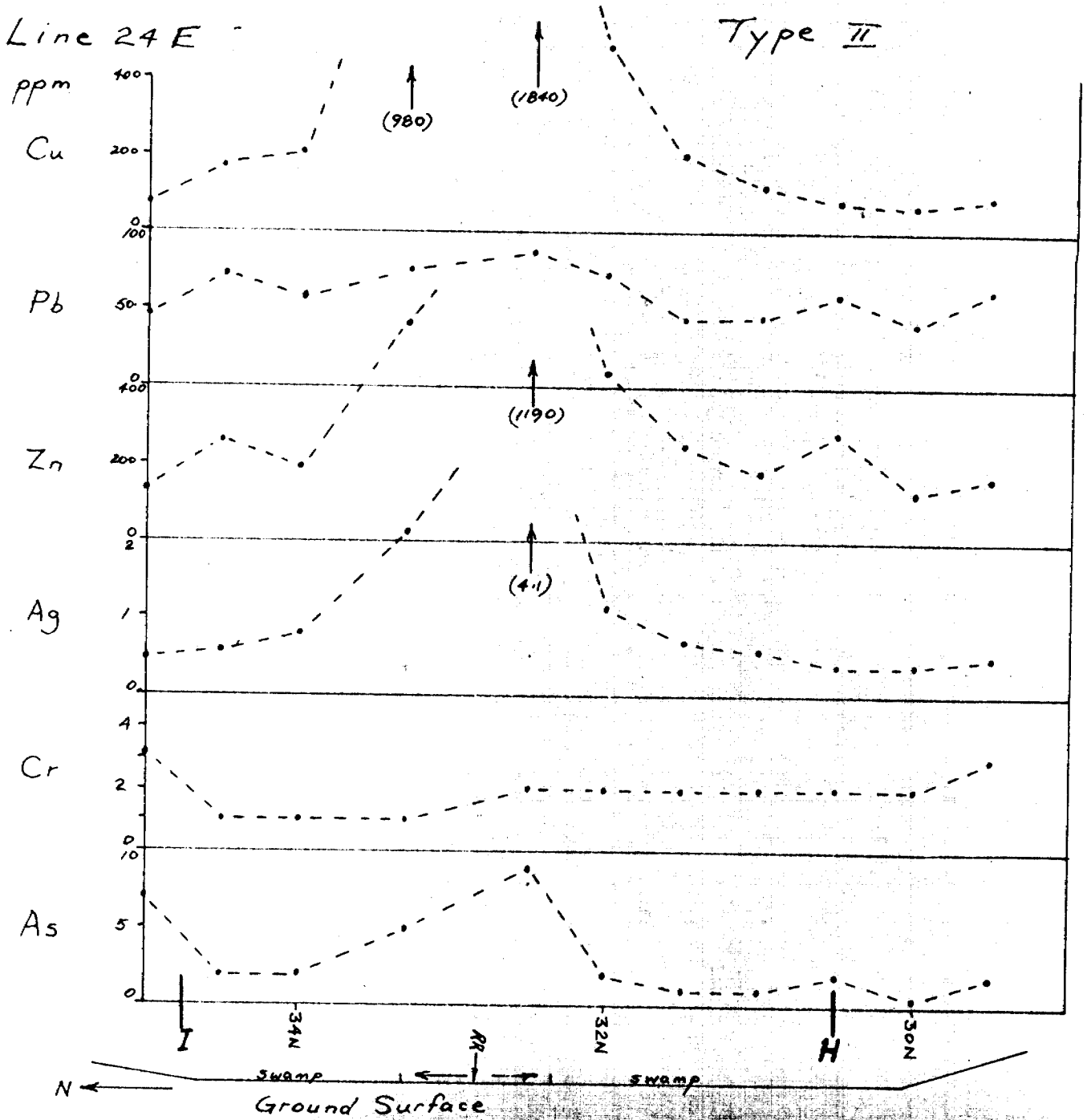
Line 16 E

Type II

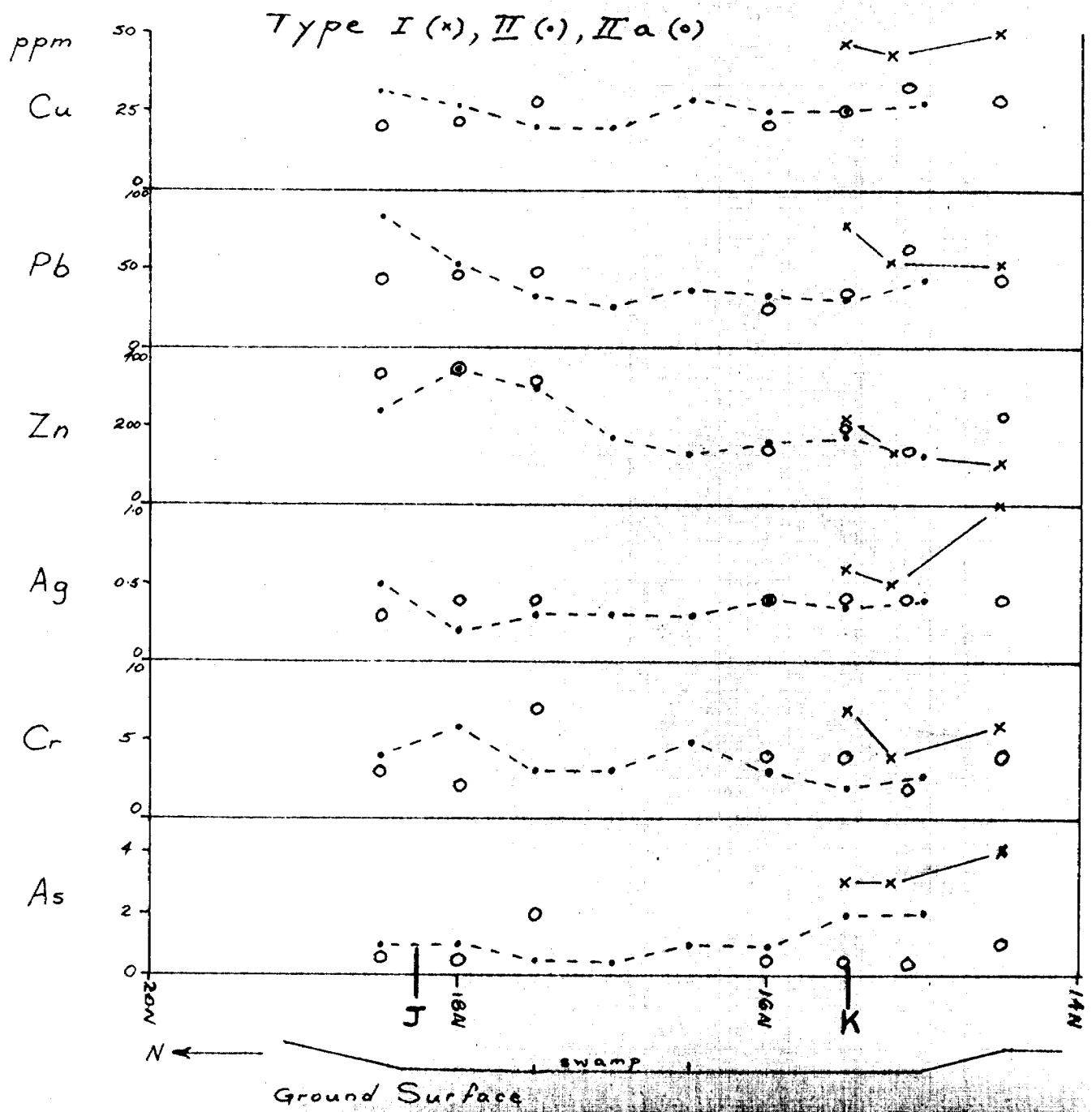


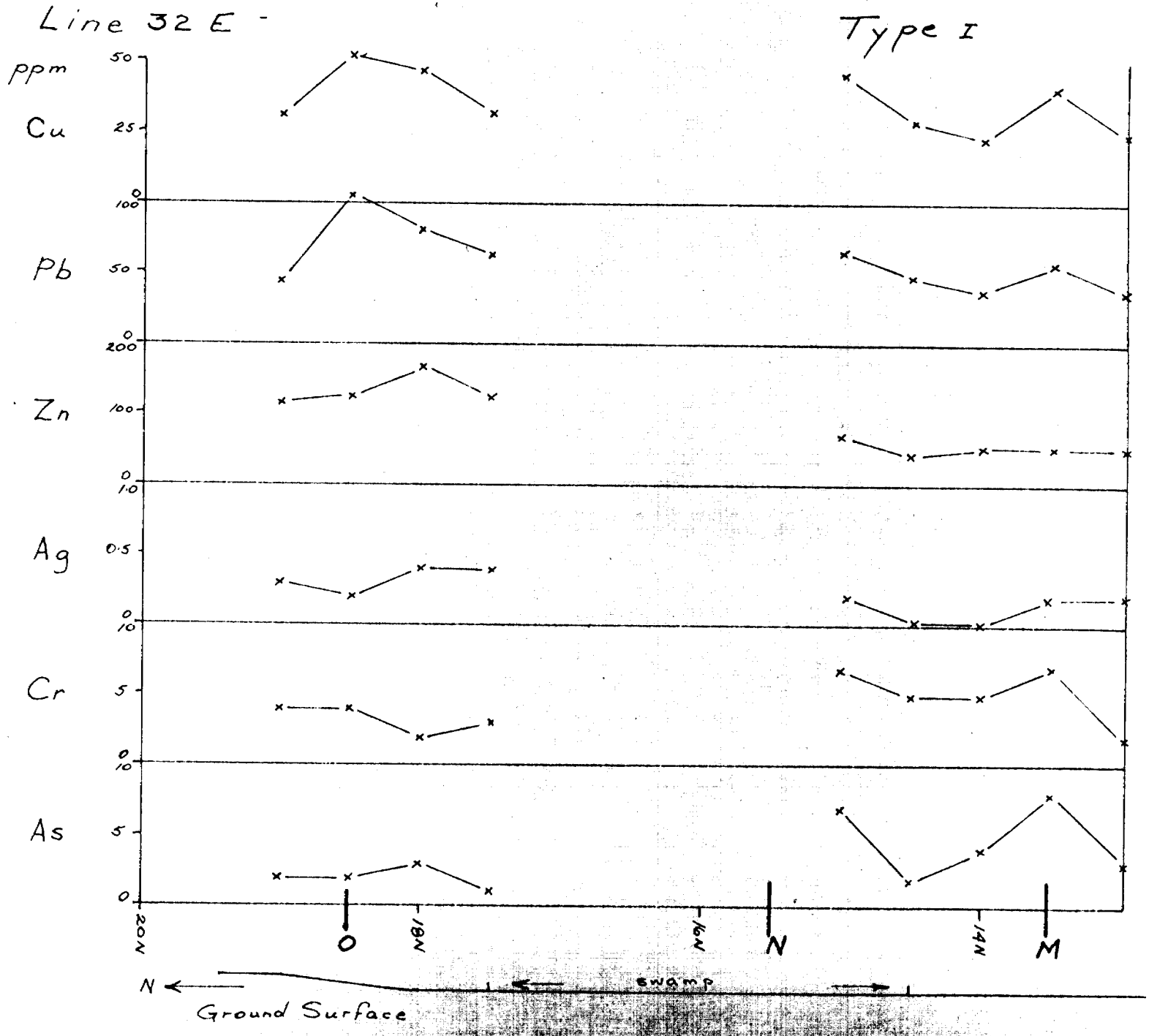

Line 16E
Type II (·), II a (·)
ppm
Cu
50
25
0
50
Pb
25
0
300
Zn
200
100
10
Ag
0.5
0
10
Cr
5
0
4
As
2
0
Ground Surface


Line 24 E
Type I
ppm
Cu
400
200
0
(1340)
(1650)
(700)
Pb
100
50
0
Zn
400
200
0
(860)
(1730)
Ag
2
1
0
(4.1)
(4.2)
Cr
4
2
0
As
10
5
0
I
34N
RR
32N
H
30N
swamp
swamp
N
Ground Surface

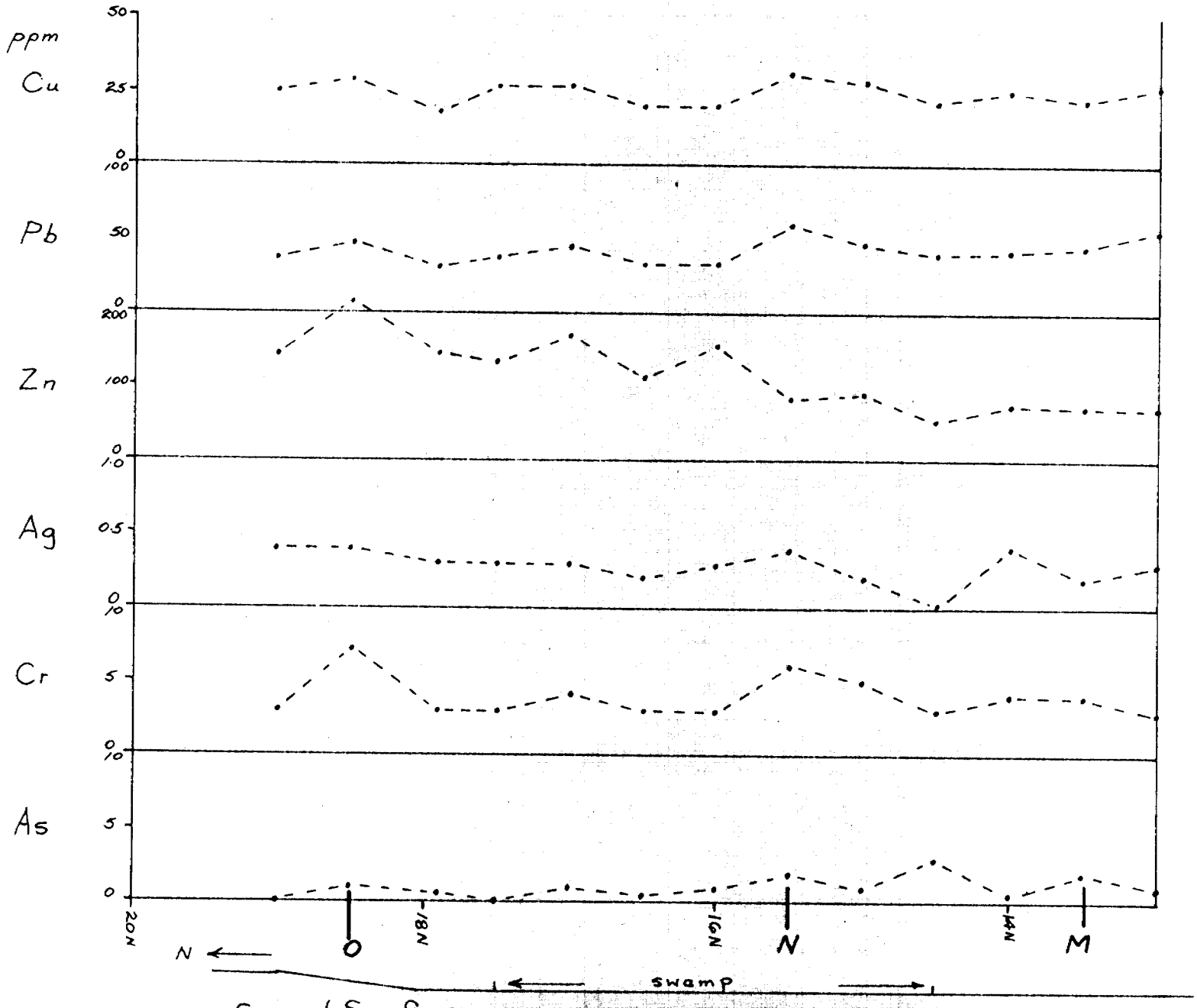

Line 24E
Type II
ppm
Cu
400
200
0
(980)
(1840)
100
Pb
50
0
400
(1190)
Zn
200
0
2
(4.1)
Ag
1
0
4
Cr
2
0
10
As
5
0
I
34N
RR
32N
H
30N
swamp
swamp
N
Ground Surface

Line 24 E

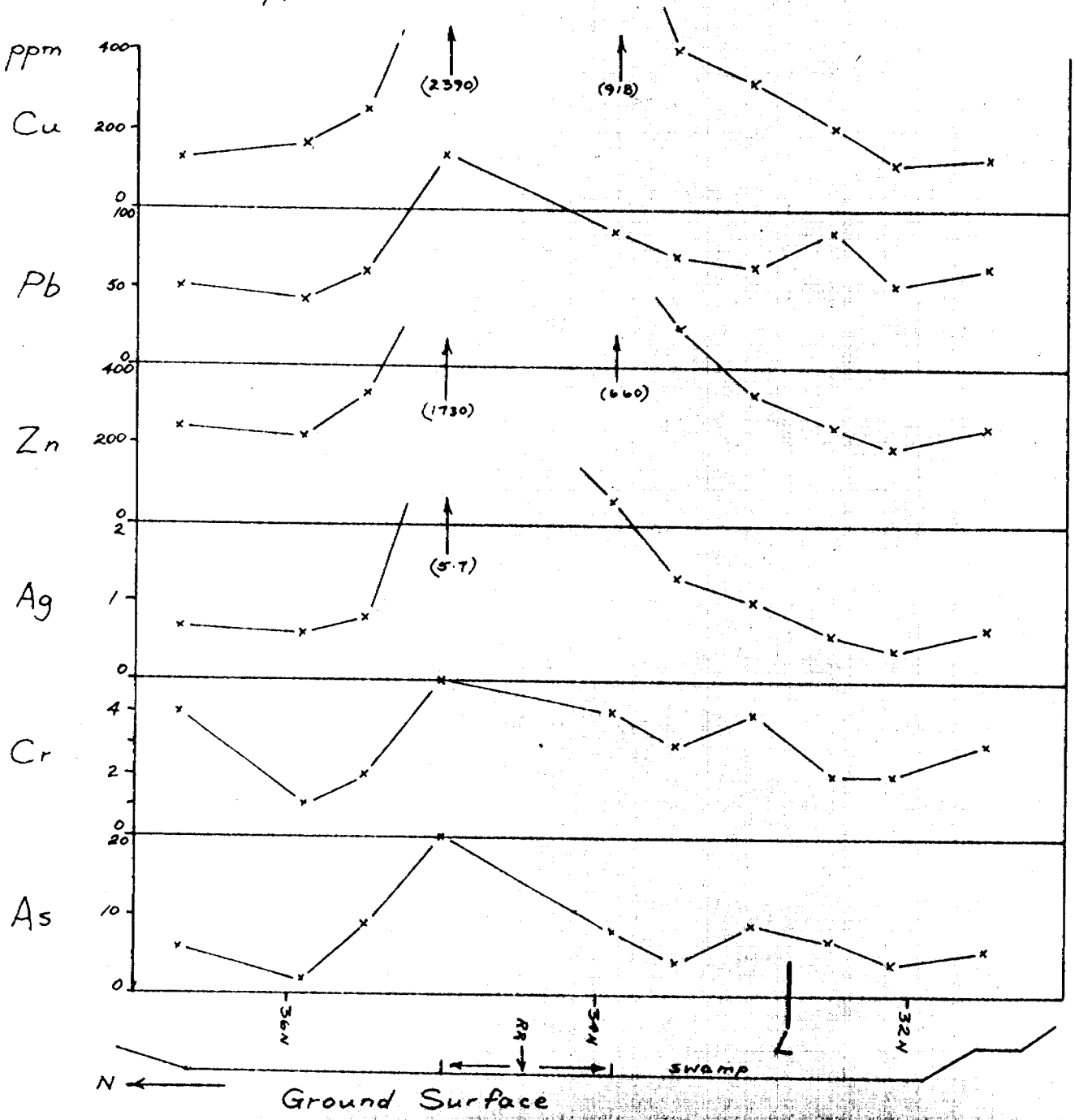

Type I (x), II (•), IIa (o)
ppm
Cu
50
25
0
Pb
100
50
0
Zn
400
200
0
Ag
1.0
0.5
0
Cr
10
5
0
As
4
2
0
20N
18N
16N
14N
J
K
N
swamp
Ground Surface

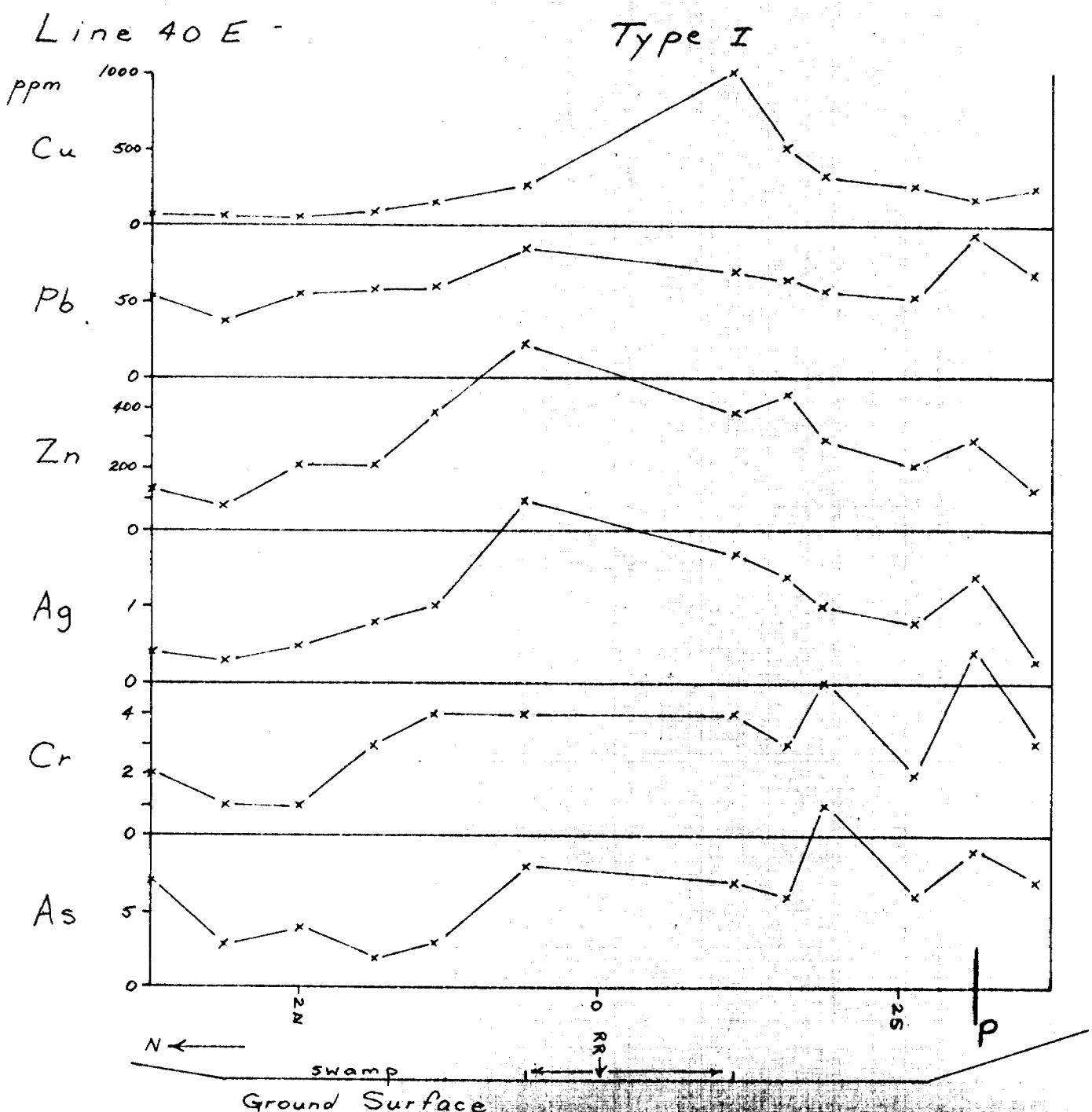

Line 32 E
Type I
ppm
Cu
50
25
0
Pb
100
50
0
Zn
200
100
0
Ag
1.0
0.5
0
Cr
10
5
0
As
10
5
0
20N
0
18N
16N
N
14N
M
N
Swamp
Ground Surface

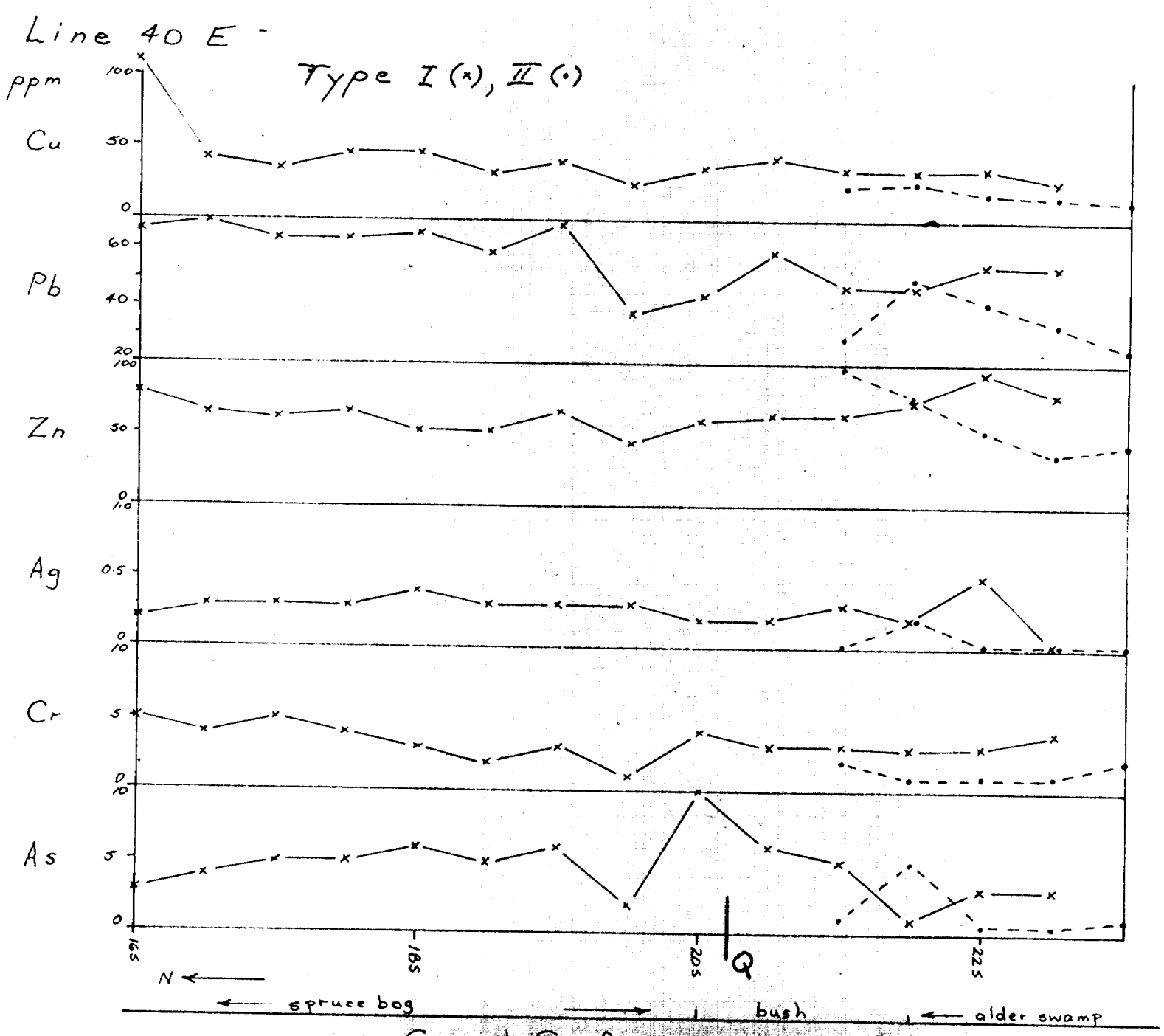
Line 32 E - Type II



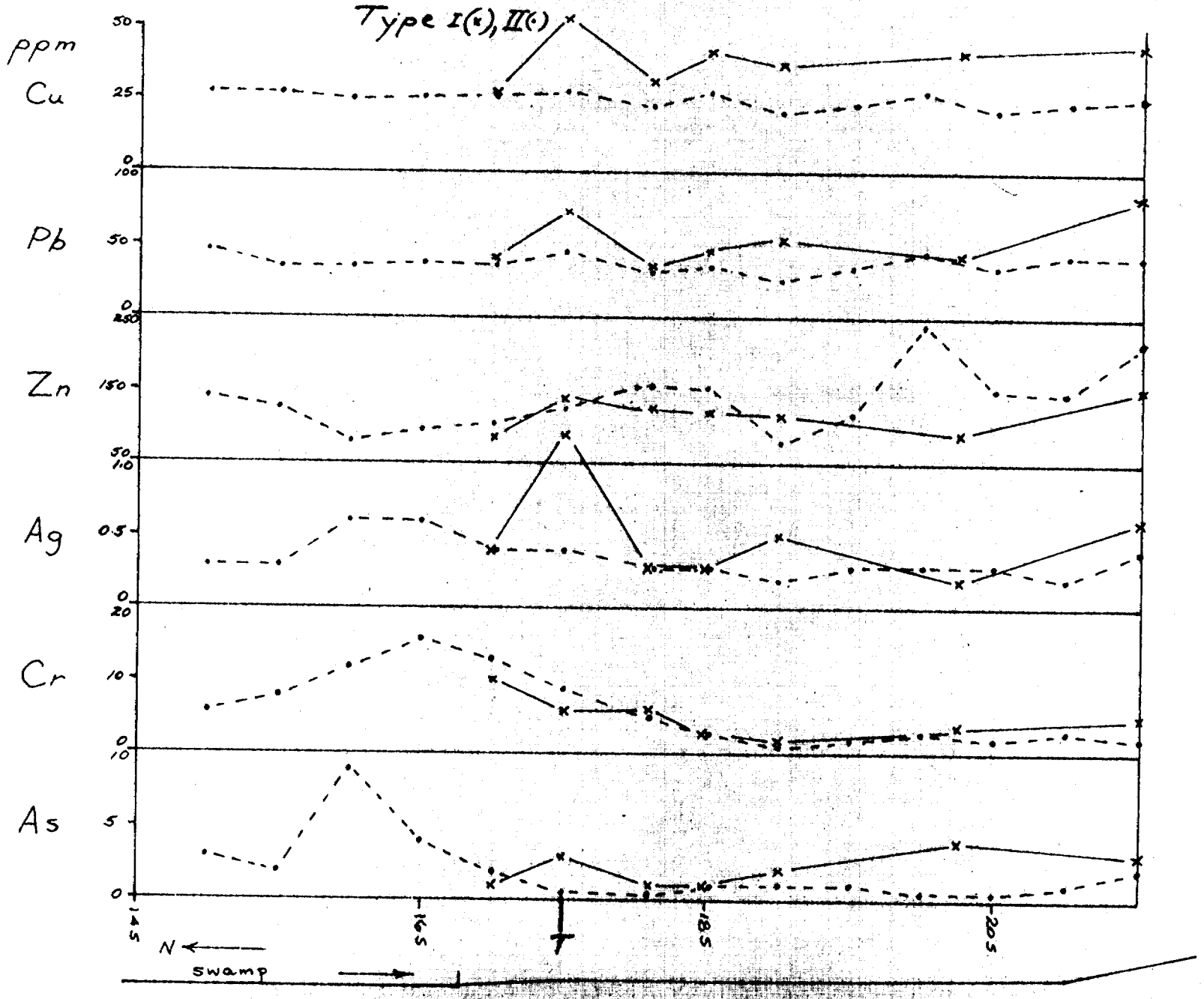
Line 32 E - Type I




Line 40 E -
Type I
ppm
Cu
1000
500
0
Pb
50
0
Zn
400
200
0
Ag
1
0
Cr
4
2
0
As
5
0
2N
0
2S
P
N
RR
swamp
Ground Surface

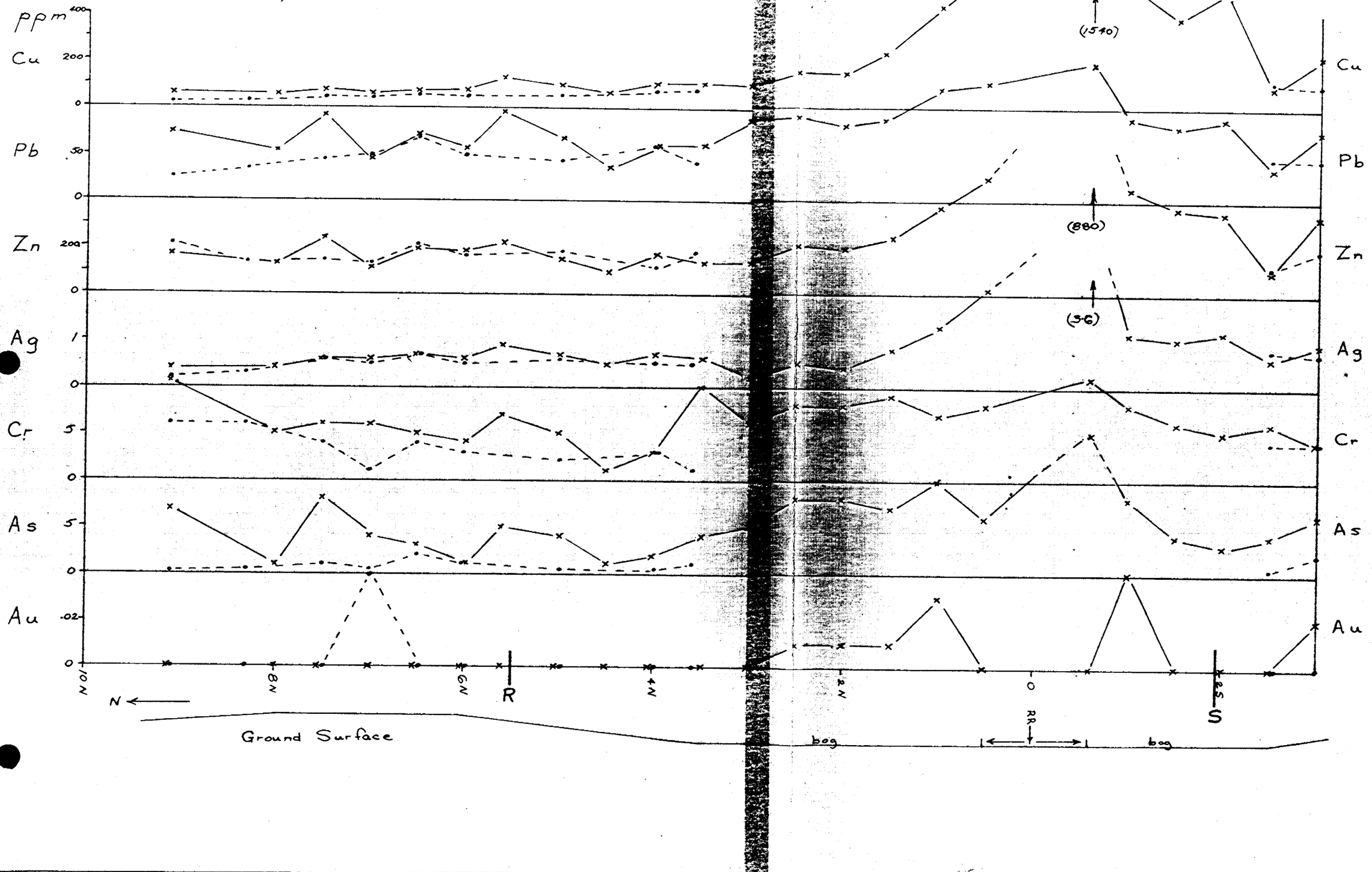

Line 40 E
Type I (x), II (•)
ppm
Cu
100
50
0
Pb
60
40
20
Zn
100
50
0
Ag
1.0
0.5
0
Cr
10
5
0
As
10
5
0
16S
18S
20S
22S
Q
N
spruce bog
bush
alder swamp
Ground Surface

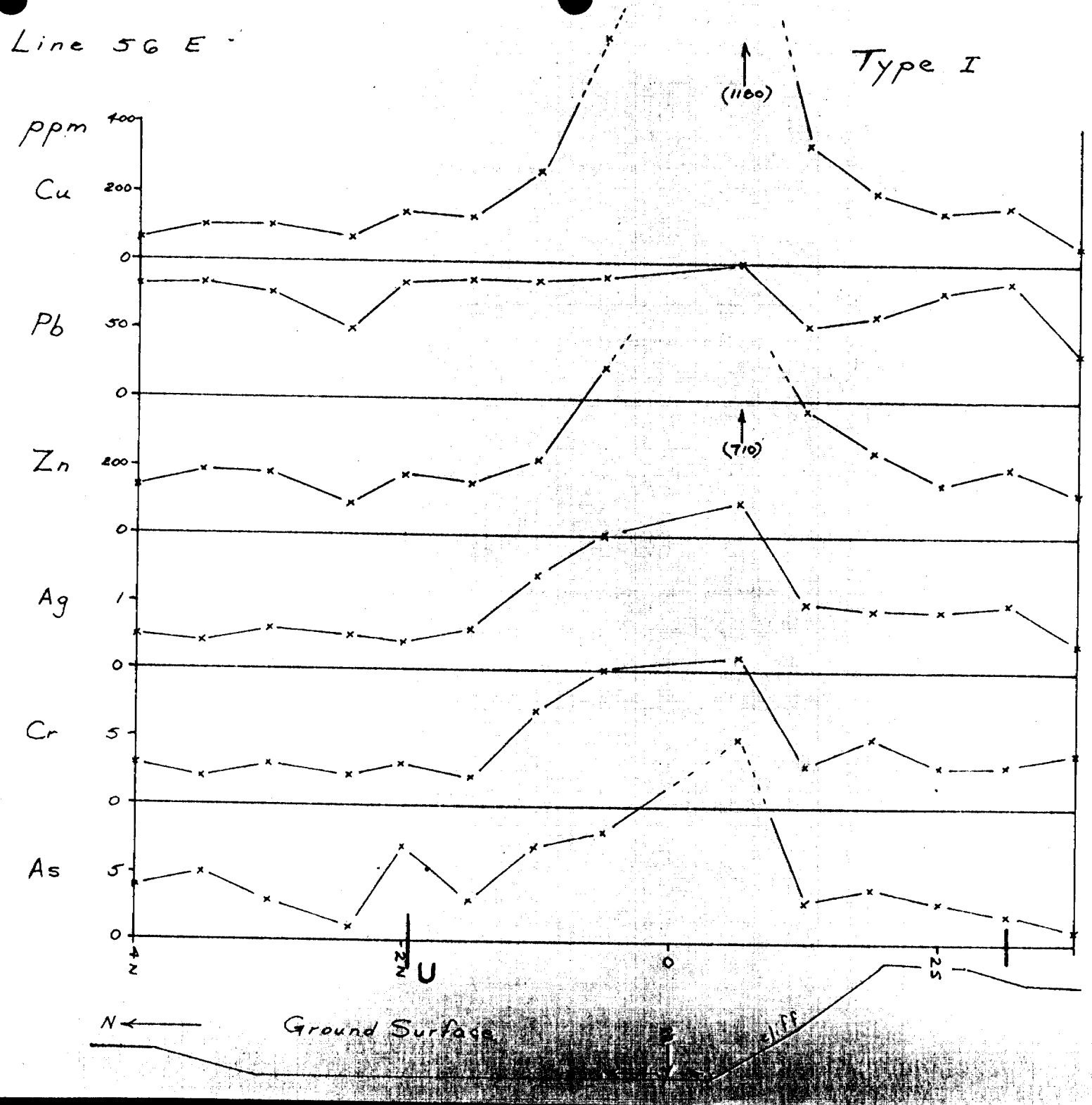
Line 48 E -


Type I(x), II(·)
ppm
Cu
50
25
0
Pb
100
50
0
Zn
250
150
50
Ag
1.0
0.5
0
Cr
20
10
0
As
10
5
0
14S
16S
18S
20S
N
swamp
Ground Surface

Line 48 E

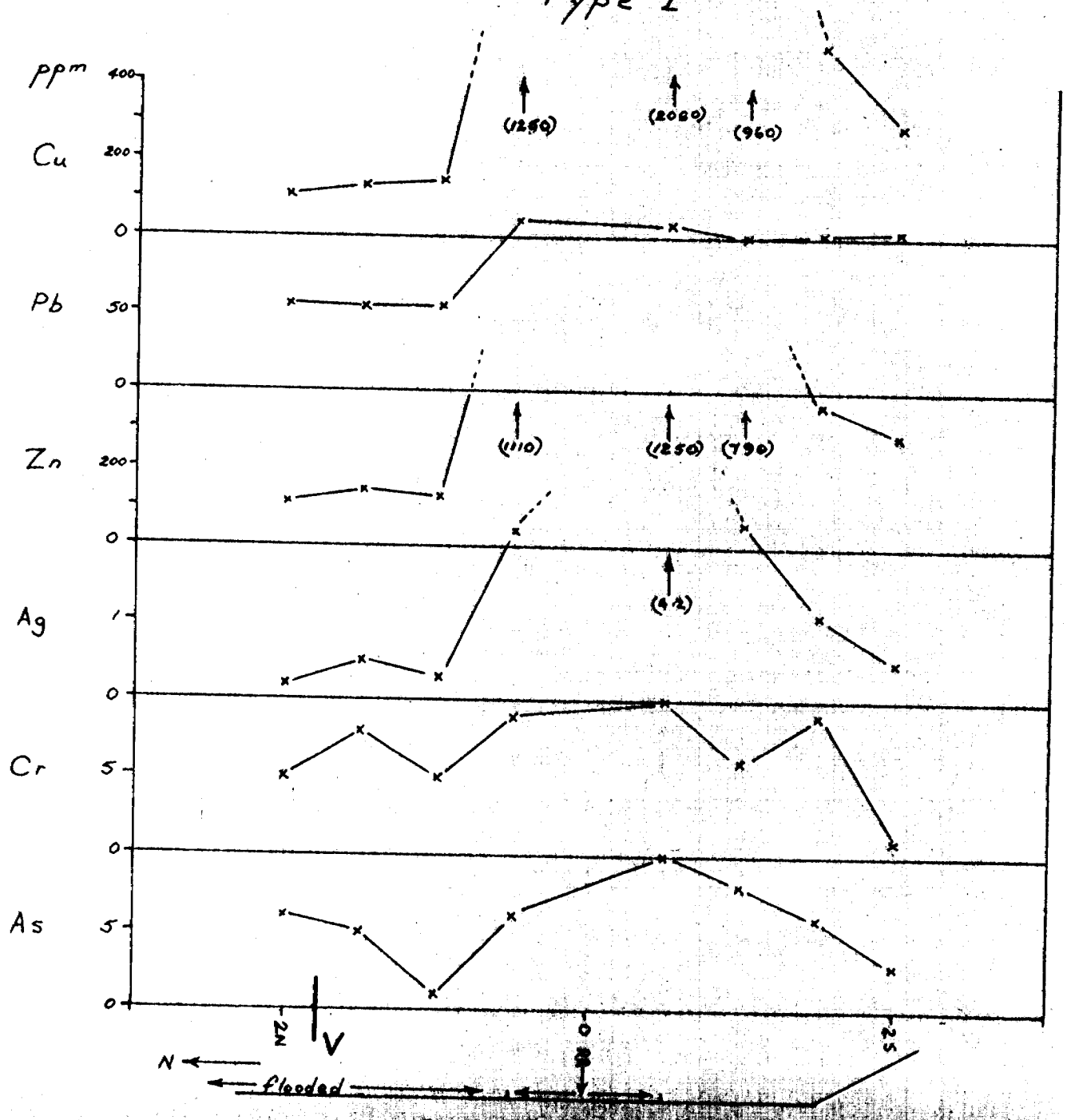
Type I (x), II (·)

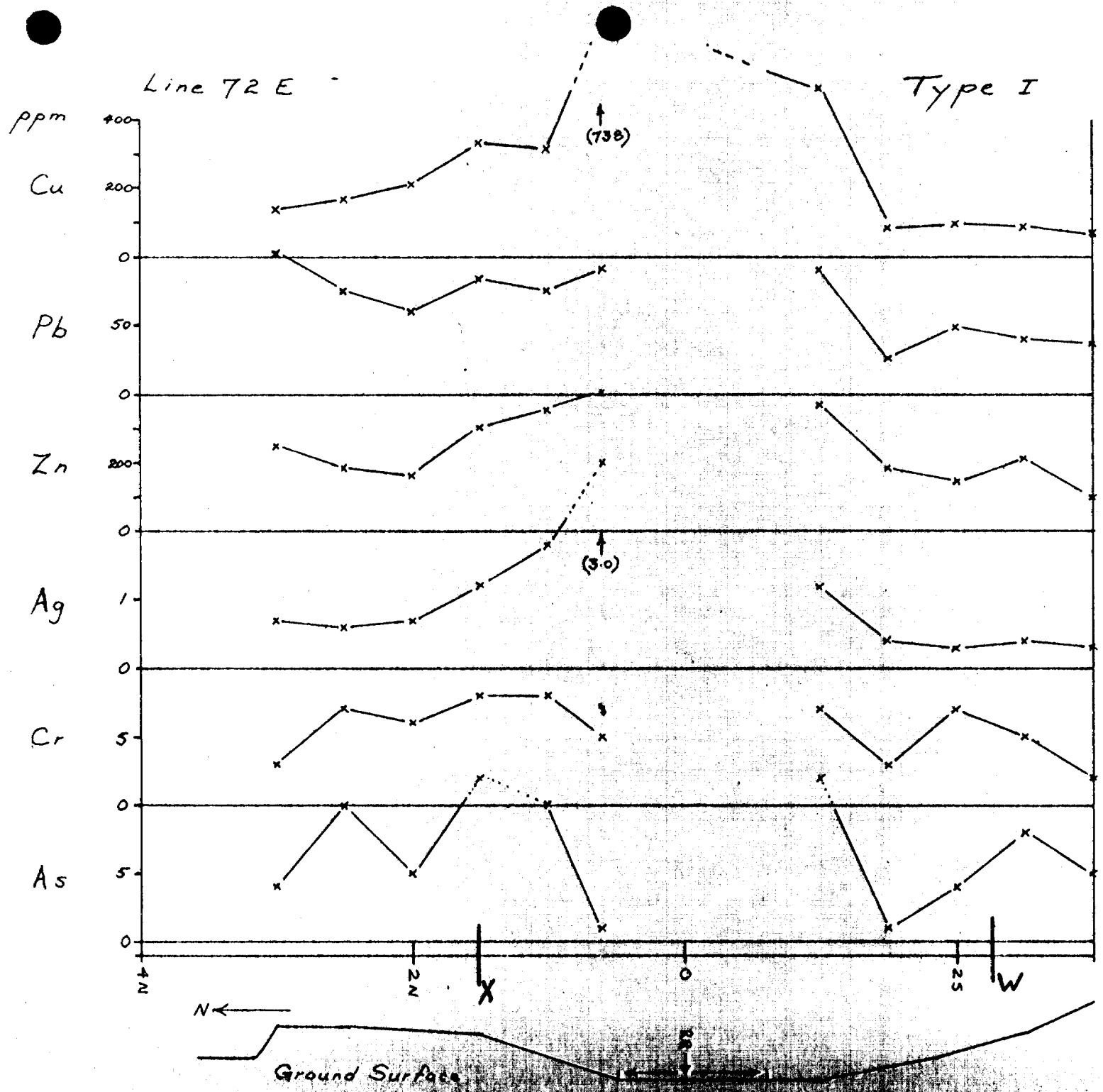



Line 56 E
Type I
(1180)
(710)
ppm
Cu
Pb
Zn
Ag
Cr
As
400
200
0
50
0
200
0
1
0
5
0
5
0
4N
2N
U
0
2S
N
Ground Surface
cliff

Line 64 E

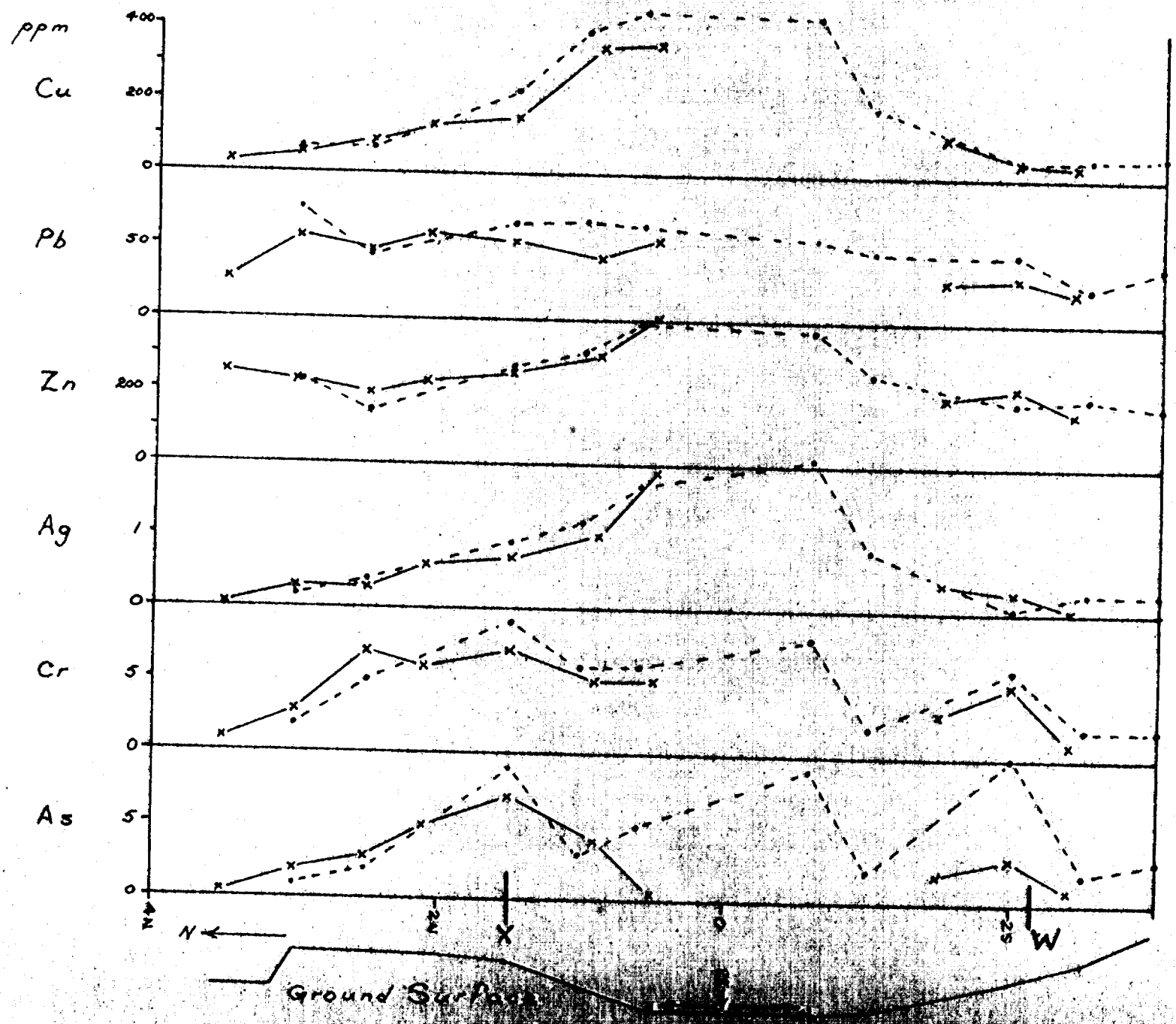
Type I




Line 72 E
Type I
ppm
Cu
400
200
0
(738)
Pb
50
0
Zn
200
0
(3.0)
Ag
1
0
Cr
5
0
As
5
0
4N
2N
X
0
2S
W
N
Ground Surface

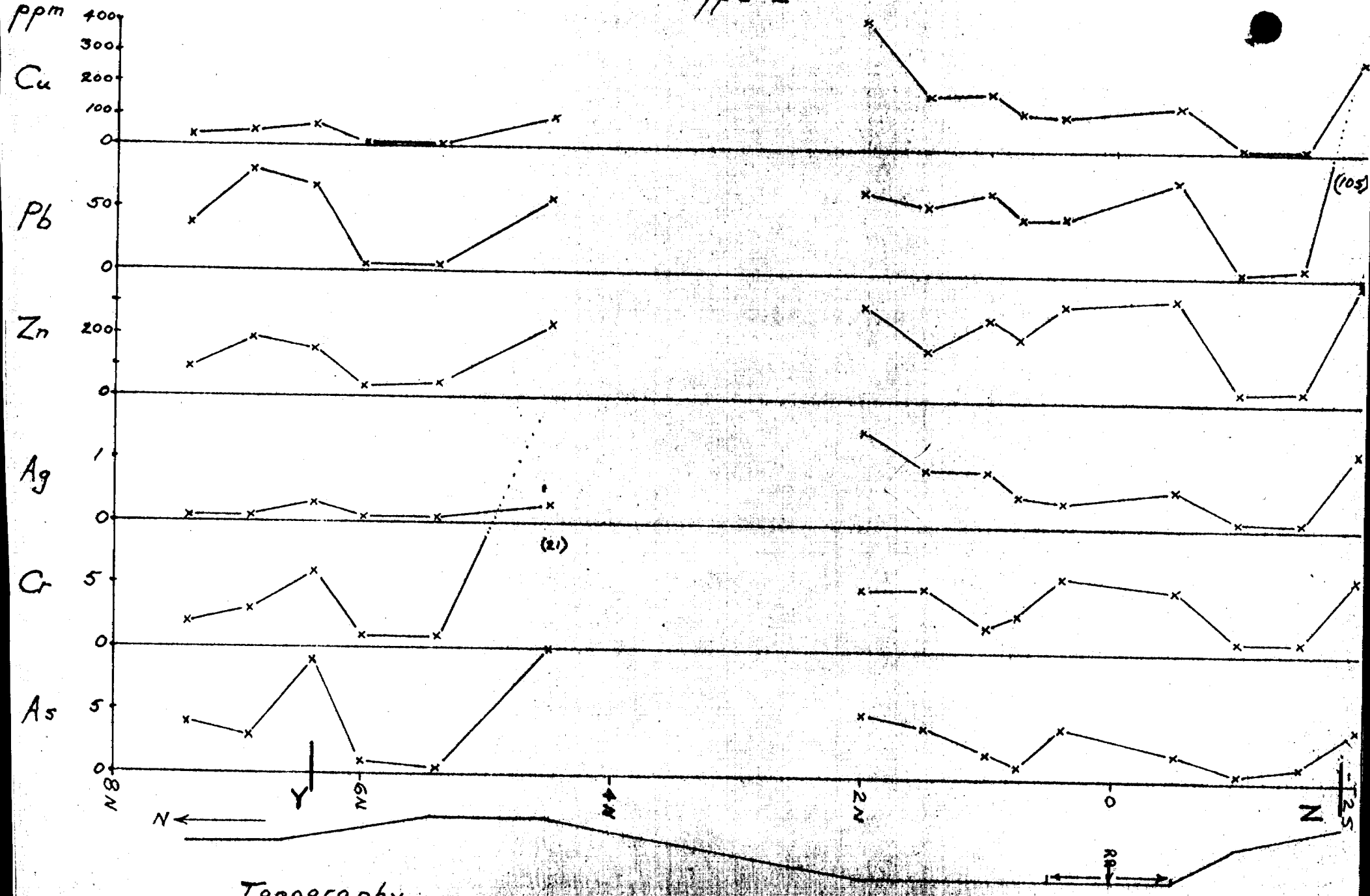
Line 72 E

Type II (·), IIa (×)



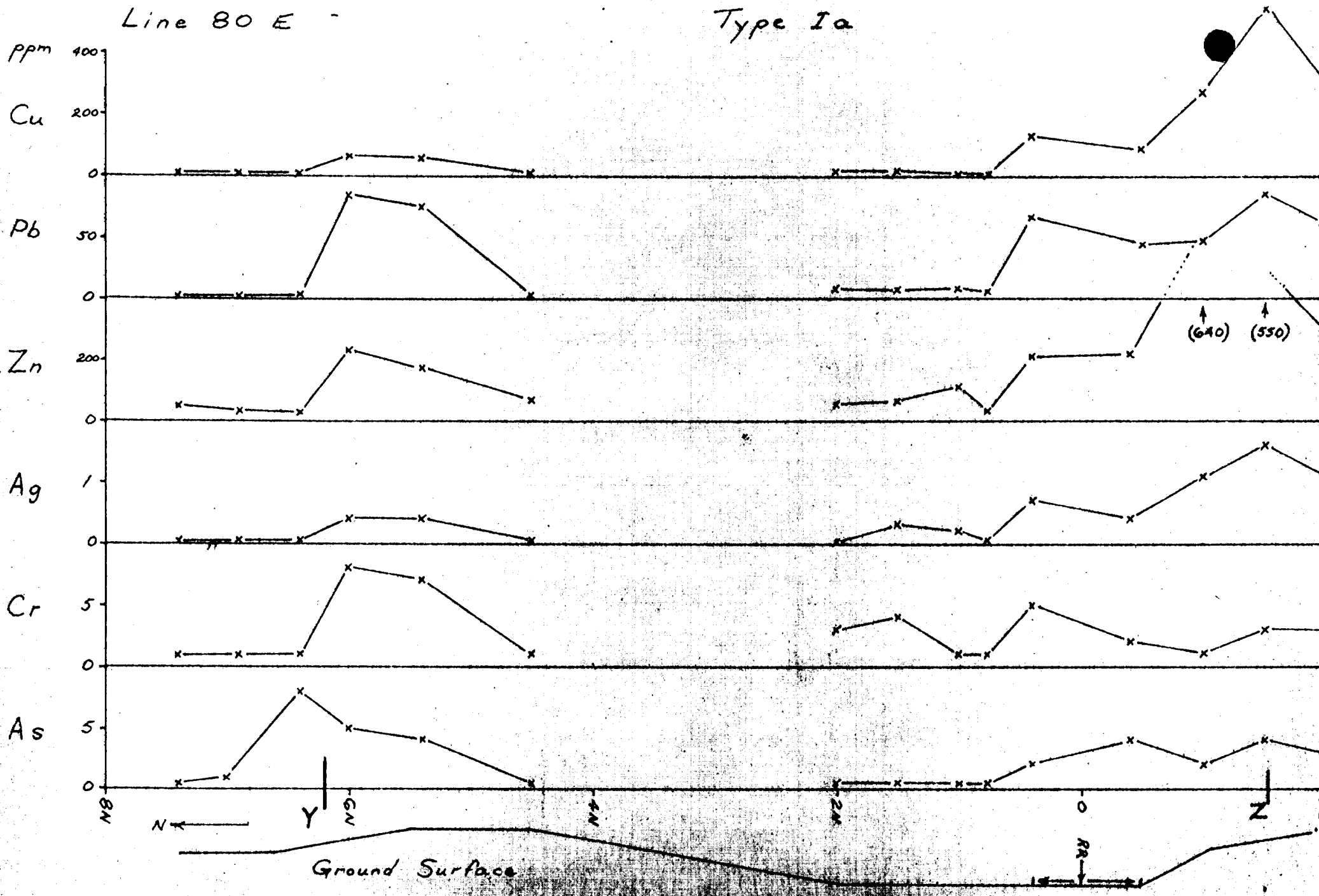
Line 80 E

Type I

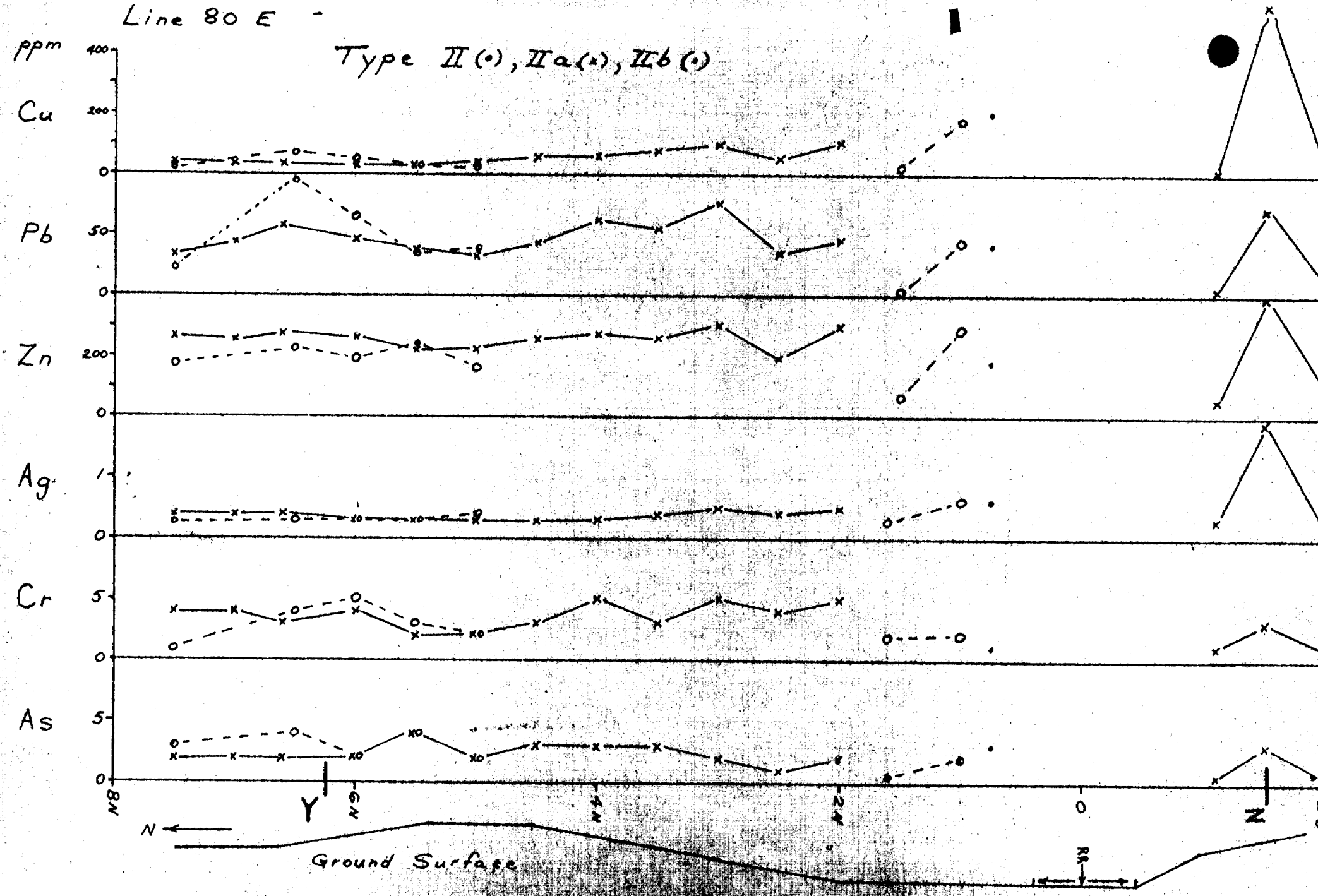


Line 80 E

Type Ia



Line 80 E


ppm
Type II (•), IIa (x), IIb (•)
Cu
400
200
0
Pb
50
0
Zn
200
0
Ag
1
0
Cr
5
0
As
5
0
8N
6N
4N
2N
0
2N
Y
N
Ground Surface

APPENDIX II

Analytical Results- Technical Service Laboratories

TSL

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Lee-Geo Indicators Ltd.,
c/o General Delivery,
Tarzwell, Ontario.

SAMPLE(S) OF Attn. Susan A. Scott

REPORT NO. T9553-1

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	As	Au
1	L80E 126 2+00S	287	105	380	1.2		6	4	<.01
2	127 2+00S	34	8	72	.2		1	.5	"
3	128 1+50S	550	70	398	1.9		3	3	"
4	129 1+50S	10	8	39	<.2		1	1	"
5	130 1+00S	7	2	35	<.2		1	.5	"
6	131 1+10S	8	4	52	.3		1	.5	"
7	132 2+00S	296	61	303	1.1		3	3	"
8	133 1+50S	550	84	550	1.6		3	4	"
9	134 1+00S	269	48	640	1.1		1	2	"
10	135 0+50S	141	76	223	.6		5	2	"
11	136 0+50S	82	43	219	.4		2	4	"
12	137 0+40N	114	46	305	.4		6	4	"
13	138 0+40N	127	66	209	.7		5	2	"
14	139 0+75N	121	45	201	.5		3	1	"
15	140 0+75N	6	5	39	<.2		1	.5	"
16	141 0+75N	196	40	176	.6		1	3	"
17	142 1+00N	180	66	260	.9		2	2	"
18	143 1+00N	6	8	108	.2		1	.5	"
19	144 1+00N	173	44	284	.6		2	2	"
20	145 1+50N	170	54	160	.9		5	4	<.01
21									
22									
23									
24									

DATE July 11-75 SIGNED [signature]

CTA

SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9553-2

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	MoS	As	Au
1	L80E 146 1+50N	17	7	62	.3		4	.5	<.01
2	147 1+50N	21	3	64	.3		2	.5	"
3	148 2+00N	410	64	298	1.5		5	5	"
4	149 2+00N	16	8	56	<.2		3	.5	"
5	150 2+00N	104	46	300	.5		5	2	"
6	151 2+50N	46	35	198	.4		4	1	"
7	152 3+00N	94	76	302	.5		5	2	"
8	153 3+50N	69	54	260	.4		3	3	"
9	154 4+00N	55	61	270	.3		5	3	"
10	155 4+50N	92	58	232	.3		21	10	"
11	156 4+50N	6	2	64	<.2		1	.5	"
12	157 4+50N	51	42	252	.3		3	3	"
13	158 5+00N	39	32	218	.3		2	2	"
14	159 5+00N	35	38	160	.4		2	2	"
15	160 5+50N	30	38	223	.3		2	4	"
16	161 5+50N	29	36	238	.3		3	4	"
17	162 5+40N	4	5	44	<.2		1	.5	"
18	163 5+40N	57	74	171	.4		7	4	"
19	164 6+00N	28	47	261	.3		4	2	"
20	165 6+00N	42	64	194	.3		5	2	<.01
21									
22									
23									
24									

DATE July 11 - 75 SIGNED Intal Thurl

CTA

SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

TSL

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9553-3

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No		Cu	Pb	Zn	Ag	Ni	~~Mo~~ Cr	As	Au
1	L80E 166	6+00N	6	6	39	<.2		1	1	<.01
2	67	6+00N	61	84	233	.4		8	5	"
3	68	6+50N	65	95	227	.3		4	4	"
4	69	6+60N	37	58	279	.4		3	2	"
5	70	6+40N	63	68	156	.3		6	9	"
6	71	6+40N	6	3	29	<.2		1	8	"
7	72	7+00N	35	43	252	.4		4	2	"
8	73	6+90N	44	80	186	<.2		3	3	"
9	74	6+90N	5	3	36	<.2		1	1	"
10	175	7+50N	24	21	173	.3		1	3	"
11	76	7+50N	33	34	262	.4		4	2	"
12	77	7+40N	35	38	89	<.2		2	4	"
13	78	7+40N	5	2	42	<.2		1	.5	"
14	L72E 79	3+00S	75	37	94	.3		2	5	"
15	80	3+00S	61	38	164	.3		2	3	"
16	81	2+50S	83	40	209	.4		5	8	"
17	82	2+50S	52	25	194	.3		2	2	"
18	83	2+40S	38	20	147	<.2		1	1	"
19	84	2+00S	98	49	145	.3		7	4	"
20	185	2+00S	44	47	179	<.2		6	10	<.01
21										
22										
23										
24										

DATE July 11-75

SIGNED Inta Furst

CTA

SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9553-4

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo Cu	As	Au
1	L72E 186 2+00S	42	30	220	.3		5	3	<.01
2	87 1+50S	80	26	186	.4		3	1	"
3	88 1+50S	107	28	182	.4		3	2	"
4	89 1+00S	493	90	370	1.2		7	12	"
5	190 1+00S	182	48	243	.8		2	2	"
6	91 0+60S	430	57	367	2.1		8	9	"
7	92 0+50N	350	53	402	1.9		5	.5	"
8	93 0+60N	738	91	411	3.0		5	1	"
9	94 0+60N	440	64	390	1.7		6	5	"
10	95 1+00N	310	76	359	1.8		8	10	"
11	96 1+00N	384	68	309	1.2		6	3	"
12	97 0+90N	346	41	300	1.0		5	4	"
13	98 1+50N	330	83	303	1.2		8	12	"
14	99 1+50N	158	52	257	.7		7	7	"
15	200 1+50N	224	67	264	.9		9	9	"
16	325 2+00N	208	60	160	.7		6	5	"
17	26 2+10N	130	58	230	.6		6	5	"
18	27 2+50N	164	74	185	.6		7	10	"
19	28 2+50N	85	47	195	.3		7	3	"
20	329 2+50N	69	44	153	.4		5	2	<.01
21									
22									
23									
24									

DATE July 11-75 SIGNED Inta Turo

CTA

SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9593-5

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	MoCu	As	Au
1	L72E 330 3+00N	140	102	244	.7		3	4	<.01
2	31 3+00N	67	58	231	.3		3	2	"
3	32 3+00N	74	77	233	.2		2	1	"
4	33 3+50N	34	27	255	<.2		1	.5	"
5	L64E 34 2+00S	285	103	285	.5		1	3	"
6	35 1+50S	506	102	364	1.1		9	6	"
7	36 1+00S	960	100	790	2.3		6	8	"
8	37 0+50S	2060	108	1250	4.2		10	10	"
9	38 0+50N	1250	110	1110	2.2		9	6	"
10	39 1+00N	146	54	126	.3		5	1	"
11	340 1+50N	133	55	140	.5		8	5	"
12	41 2+00N	105	56	113	.2		5	6	"
13	L56E 42 3+00S	54	35	122	.4		4	1	"
14	43 2+50S	174	87	200	1.0		3	2	"
15	44 2+00S	152	80	156	.9		3	3	"
16	45 1+50S	201	61	242	.9		5	4	"
17	46 1+00S	352	54	366	1.0		3	3	"
18	47 0+50S	1180	100	710	2.5		11	15	"
19	48 0+50N	660	90	485	2.0		10	8	"
20	349 1+00N	268	86	220	.7		7	7	<.01
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DATE July 11-75

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SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

T S L

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4246 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T 9593-6

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	~~Mo~~ Cr	As	Au
1	L56E 350 1+50N	132	86	148	.6		2	8	<.01
2	51 2+00 N	144	85	176	.4		3	7	"
3	52 2+40 N	73	50	86	.5		2	1	"
4	53 3+00 N	107	77	180	.6		3	3	"
5	54 3+50 N	104	84	183	.4		2	5	"
6	55 4+00 N	66	82	140	.5		3	4	"
7	56 3+00 S	218	73	332	.9		4	6	.02
8	57 3+00 S	83	43	185	.7		4	2	<.01
9	58 2+50 S	83	34	101	.6		6	4	"
10	59 2+50 S	117	45	113	.8		4	.5	"
11	360 2+00 S	505	89	346	1.2		5	3	"
12	61 1+50 S	384	80	369	1.0		6	4	"
13	62 1+00 S	537	89	448	1.1		8	8	.04
14	63 0+60 S	1540	149	880	3.6		11	15	<.01
15	64 0+50 N	592	127	496	2.1		8	6	<.01
16	65 1+00 N	438	120	374	1.3		7	10	.03
17	66 1+60 N	235	87	240	.8		9	7	.01
18	67 2+00 N	148	80	197	.4		8	8	.01
19	68 2+50 N	146	90	202	.5		8	8	.01
20	369 3+00 N	93	87	136	.2		6	5	<.01
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DATE July 14-75 SIGNED Intal Paul

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SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

TSL

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9593-7

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	As	Au
1	L48E 370 3+50N	102	59	134	.6		10	4	<.01
2	71 3+60N	76	40	167	.5		1	1	"
3	72 4+00N	101	58	163	.7		3	2	"
4	73 4+00N	69	58	114	.5		3	.5	"
5	74 4+50N	61	35	94	.5		1	1	"
6	75 5+00N	94	67	153	.7		5	4	"
7	76 5+00N	49	42	183	.6		2	.5	"
8	77 5+00N	123	97	218	.9		7	5	"
9	78 6+00N	68	57	178	.6		4	1	"
10	79 6+00N	45	49	161	.5		3	1	"
11	380 6+50N	68	70	190	.7		5	3	"
12	81 6+50N	51	68	207	.7		4	2	"
13	82 7+00N	52	45	118	.6		6	4	"
14	83 7+00N	40	48	130	.5		1	.5	.04
15	84 7+50N	75	91	240	.6		6	8	<.01
16	85 7+50N	40	43	147	.6		4	1	"
17	86 8+00N	54	53	126	.4		5	1	"
18	87 8+30N	27	32	136	.3		6	.5	"
19	88 8+50N	60	72	174	.4		11	7	"
20	389 9+10N	24	25	215	.2		6	<.5	<.01
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DATE July 14

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SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

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TECHNICAL SERVICE LABORATORIES
DIVISION OF SUDBURY TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9593-8

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	As	Au
1	L8E 390 · 26+00 N	76	55	178	.5		5	4	<.01
2	91 26+00 N	47	41	175	.3		1	.5	"
3	92 26+75 N	138	67	249	.7		6	6	"
4	93 26+75 N	61	47	297	.3		1	.5	"
5	94 27+10 N	118	39	150	.4		1	2	"
6	95 27+10 N	123	52	349	.5		1	1	"
7	396 27+50 N	115	56	165	.6		2	4	"
8	H01 27+50 N	96	38	133	.5		4	3	"
9	02 28+00 N	160	76	194	.8		2	5	"
10	03 28+00 N	134	65	201	.6		2	.5	"
11	04 28+50 N	169	50	140	.7		1	2	"
12	05 28+60 N	351	76	344	1.0		3	5	"
13	06 29+00 N	536	98	428	1.4		4	8	"
14	07 29+00 N	197	33	149	.7		4	1	"
15	408 29+50 N	267	48	254	1.0		1	2	"
16	423 30+00 N	674	72	950	1.8		5	4	"
17	24 30+50 N	1490	94	1600	3.2		8	12	"
18	25 31+50 N	1920	134	1830	4.5		8	9	"
19	26 31+60 N	1370	95	1060	3.8		8	7	"
20	H27 32+25 N	480	70	495	1.4		7	3	<.01
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DATE July 14- 75 SIGNED Inta Puml

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SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

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TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9593-9

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No		Cu	Pb	Zn	Ag	Ni	Mo	As	Au
1	L8E	H28 32+25N	299	61	366	1.0		3	2	<.01
2		29 33+00N	295	84	432	1.1		6	7	"
3		430 33+00N	121	52	185	.6		2	.5	"
4		31 33+50N	240	64	367	.8		3	5	"
5		32 33+50N	134	64	297	.6		2	4	"
6		33 34+00N	89	55	217	.4		3	2	"
7		34 33+90N	192	75	315	.7		4	8	"
8		35 34+50N	221	89	385	1.0		5	6	"
9		36 34+50N	64	48	256	.4		3	.5	"
10		37 35+00N	131	95	319	.6		4	3	"
11		38 35+00N	82	48	219	.4		2	2	"
12		39 35+50N	175	87	391	.7		9	8	"
13		H40 35+50N	65	40	253	.3		2	.5	"
14		41 36+00N	68	49	285	.4		2	1	"
15		42 35+90N	113	77	261	.6		4	5	"
16		43 36+50N	58	43	282	.5		2	2	"
17		44 37+00N	37	47	179	.5		3	.5	"
18	L16E	45 29+00N	101	55	379	.6		2	1	"
19		46 29+50N	94	47	175	.5		2	.5	"
20		447 30+00N	127	54	300	.7		2	1	<.01
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SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

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TECHNICAL SERVICE LABORATORIES
DIVISION OF BURSENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9593-10

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	MoCu	As	Au
1	L16E 448 30+50N	162	43	183	.7		2	2	<.01
2	49 31+00N	280	50	292	1.1		2	1	"
3	450 31+50N	888	73	1500	2.5		2	7	"
4	51 31+75N	4010	178	4680	8.2		6	9	"
5	52 32+60N	2480	106	2290	6.1		4	8	"
6	53 33+00N	332	57	346	1.1		3	1	"
7	54 33+50N	207	48	207	.8		2	1	"
8	55 34+00N	122	49	267	.5		1	.5	"
9	56 34+50N	109	60	183	.5		1	2	"
10	57 35+00N	93	66	177	.4		3	2	"
11	58 35+50N	65	48	168	.5		1	1	"
12	L24E 59 29+50N	140	84	247	.6		3	4	"
13	460 29+50N	89	64	161	.5		3	2	"
14	61 30+00N	122	62	236	.6		3	8	"
15	62 30+00N	68	40	124	.4		2	.5	"
16	63 30+50N	102	45	167	.5		3	5	"
17	64 30+50N	81	60	280	.4		2	2	"
18	65 31+00N	201	50	251	.7		2	5	"
19	66 31+00N	122	45	180	.6		2	1	"
20	467 31+50N	226	45	345	1.0		3	6	<.01
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DATE July 14-75

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SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9583-11

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	~~Mo~~	As	Au
1	L24E 468 31+50N	197	44	245	.7		2	1	<.01
2	469 32+00N	700	72	468	1.9		2	8	"
3	70 32+00N	480	72	435	1.2		2	2	"
4	71 32+30N	1650	121	1730	4.2		5	13	"
5	72 32+50N	1840	85	1190	4.1		2	9	"
6	73 33+30N	980	74	565	2.2		1	5	"
7	74 33+50N	1340	111	860	4.1		6	11	"
8	75 33+90N	550	91	553	1.5		4	7	"
9	76 34+00N	209	59	198	.8		1	2	"
10	77 34+50N	284	90	370	1.0		2	3	"
11	78 34+50N	172	71	260	.6		1	2	"
12	79 35+00N	100	52	190	.7		3	10	"
13	480 35+00N	79	47	137	.5		3	7	"
14	L32E 81 31+50N	136	64	241	.7		3	6	"
15	82 32+10N	121	51	198	.4		2	4	"
16	83 32+50N	211	88	250	.6		2	7	"
17	84 33+00N	326	65	333	1.0		4	9	"
18	85 33+50N	404	70	500	1.3		3	4	"
19	86 33+90N	918	87	660	2.3		4	8	"
20	87 35+00N	2390	134	1730	5.7		5	20	<.01
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DATE July 18-75 SIGNED Inta Turk

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SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

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TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9553-12

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	~~Mo~~ Cr	As	Au
1	L32E H88 35+50N	254	60	335	.8		2	9	<.01
2	89 35+90N	163	42	222	.6		1	2	"
3	H90 36+70N	132	50	250	.7		4	6	"
4	L40E 91 3+00N	83	53	136	.4		2	7	"
5	92 2+50N	81	38	85	.3		1	3	"
6	93 2+00N	58	56	213	.5		1	4	"
7	94 1+50N	100	59	216	.8		3	2	"
8	95 1+10N	154	60	390	1.0		4	3	"
9	96 0+50N	282	85	615	2.4		4	8	"
10	97 0+90S	1002	70	397	1.7		4	7	"
11	98 1+25S	514	66	448	1.4		3	6	"
12	99 1+50S	339	59	299	1.0		5	12	"
13	500 2+10S	287	53	210	.8		2	6	"
14	503 2+50S	190	94	300	1.4		6	9	"
15	2H 2+90S	253	69	130	.3		3	7	"
16	L40E 25 16+00S	110	66	79	.2		5	3	"
17	26 16+50S	42	69	63	.3		4	4	"
18	27 17+00S	36	63	61	.3		5	5	"
19	28 17+50S	46	63	66	.3		4	5	"
20	529 18+00S	47	65	51	.4		3	6	<.01
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DATE July 18-75 SIGNED

CTA

SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

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TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9553-18

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	As	Au
1	L40E 530 18+50S	32	58	51	.3		2	5	<.01
2	31 19+00S	40	68	66	.3		3	6	"
3	32 19+50S	25	37	43	.3		1	2	"
4	33 20+00S	37	43	60	.2		4	10	"
5	34 20+50S	42	58	62	.2		3	6	"
6	35 21+00S	35	47	63	.3		3	5	"
7	36 21+00S	23	29	99	<.2		2	1	"
8	37 21+50S	32	46	72	.2		3	1	"
9	38 21+50S	26	50	75	.2		1	5	"
10	39 22+00S	36	55	92	.5		3	3	"
11	540 22+00S	19	41	51	<.2		1	.5	"
12	41 22+50S	28	54	78	<.2		4	3	"
13	42 22+50S	17	33	37	<.2		1	.5	"
14	43 23+00S	14	25	42	<.2		2	1	"
15	L48E 44 14+50S	27	47	143	.3		6	3	"
16	45 15+00S	27	36	129	.3		8	2	"
17	46 15+50S	25	36	82	.6		12	9	"
18	47 16+00S	26	39	94	.6		16	4	"
19	48 16+50S	27	38	108	.4		13	2	"
20	549 16+50S	28	41	87	.4		10	1	<.01
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DATE July 18-75 SIGNED

CTA

SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

TSL

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9553-14

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo/Cu	As	Au
1	L48E 550 17+00S	28	45	125	.4		9	.5	<.01
2	51 17+00S	53	72	139	1.2		6	3	"
3	52 17+60S	23	30	156	.3		5	.5	"
4	53 17+60S	31	34	125	.3		6	1	"
5	54 18+00S	28	36	152	.3		3	2	"
6	55 18+00S	42	47	119	.3		3	2	"
7	56 18+50S	21	27	82	.2		1	1	"
8	57 18+50S	38	54	113	.5		2	2	"
9	58 19+00S	24	35	116	.3		2	1	"
10	59 19+50S	28	45	238	.3		3	.5	"
11	560 19+75S	42	42	91	.2		4	4	"
12	61 20+00S	22	35	150	.3		2	.5	"
13	62 20+50S	24	41	147	.2		3	1	"
14	63 21+00S	25	41	217	.4		2	2	"
15	64 21+00S	44	83	150	.6		5	3	"
16	L24E 65 14+50N	50	51	113	1.0		6	4	"
17	66 14+50N	29	42	234	.4		4	1	"
18	67 15+00N	28	43	125	.4		3	2	"
19	68 15+10N	33	62	141	.4		2	.5	"
20	569 15+20N	44	52	128	.5		4	3	<.01
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DATE July 18-75 SIGNED Inta Ruud

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SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

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TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9553-15

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo/Cu	As	Au
1	L24E 570 15+50N	20	31	179	.3		2	2	<.01
2	71 15+50N	20	33	210	.4		4	.5	<.01
3	72 15+50N	46	78	215	.6		7	3	"
4	73 16+00N	25	33	166	.4		3	1	"
5	74 16+00N	21	26	153	.4		4	.5	"
6	75 16+50N	28	39	128	.3		5	1	"
7	76 17+00N	20	27	169	.3		3	.5	"
8	77 17+50N	20	31	301	.3		3	.5	"
9	78 17+50N	28	48	310	.4		7	2	"
10	79 18+00N	26	52	349	.2		6	1	"
11	580 18+00N	21	48	348	.4		2	.5	"
12	81 18+50N	32	82	240	.5		4	1	"
13	82 18+50N	20	42	338	.3		3	.5	"
14	L32E 83 19+00N	31	44	116	.3		4	2	"
15	84 19+00N	25	38	144	.4		3	<.5	"
16	85 18+50N	52	105	126	.2		4	2	"
17	86 18+50N	29	47	212	.4		7	1	"
18	87 18+00N	47	80	165	.4		2	3	"
19	88 17+90N	18	30	141	.3		3	.5	"
20	589 17+50N	32	61	128	.4		3	1	<.01
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DATE July 18-75 SIGNED Inta Puro

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SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

TSL

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9553-16

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo Cu	As	Au
1	L-32E 590 17+50N	26	38	133	.3		3	<.5	<.01
2	91 17+00N	26	43	168	.3		4	1	"
3	92 16+50N	20	31	114	.2		3	.5	"
4	93 16+00N	20	32	158	.3		3	1	"
5	94 15+50N	31	60	84	.4		6	2	"
6	95 15+00N	28	47	91	.2		5	1	"
7	96 15+00N	46	67	71	.2		7	7	"
8	97 14+50N	21	40	57	<.2		3	3	"
9	98 14+50N	29	48	44	<.2		5	2	"
10	99 14+00N	24	41	75	.4		4	.5	"
11	600 14+00N	23	38	67	<.2		5	4	"
12	01 13+50N	22	45	76	.2		4	2	"
13	02 13+50N	41	59	52	.2		7	8	"
14	03 13+00N	26	55	72	.3		3	1	"
15	04 13+00N	24	39	50	.2		2	3	"
16	05 14+00N	22	41	198	.3		4	1	"
17	06 14+50N	21	32	162	.2		3	.5	"
18	07 15+00N	30	55	181	.5		5	2	"
19	08 15+50N	18	36	173	.3		4	1	"
20	609 16+00N	21	43	250	.2		4	1	<.01
21									
22									
23									
24									

DATE July 18-75 SIGNED

CTA

SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.

TECHNICAL SERVICE LABORATORIES
DIVISION OF SURGENER TECHNICAL ENTERPRISES LIMITED
355 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 — AREA 416

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

REPORT NO. T9553-17

SAMPLE(S) OF

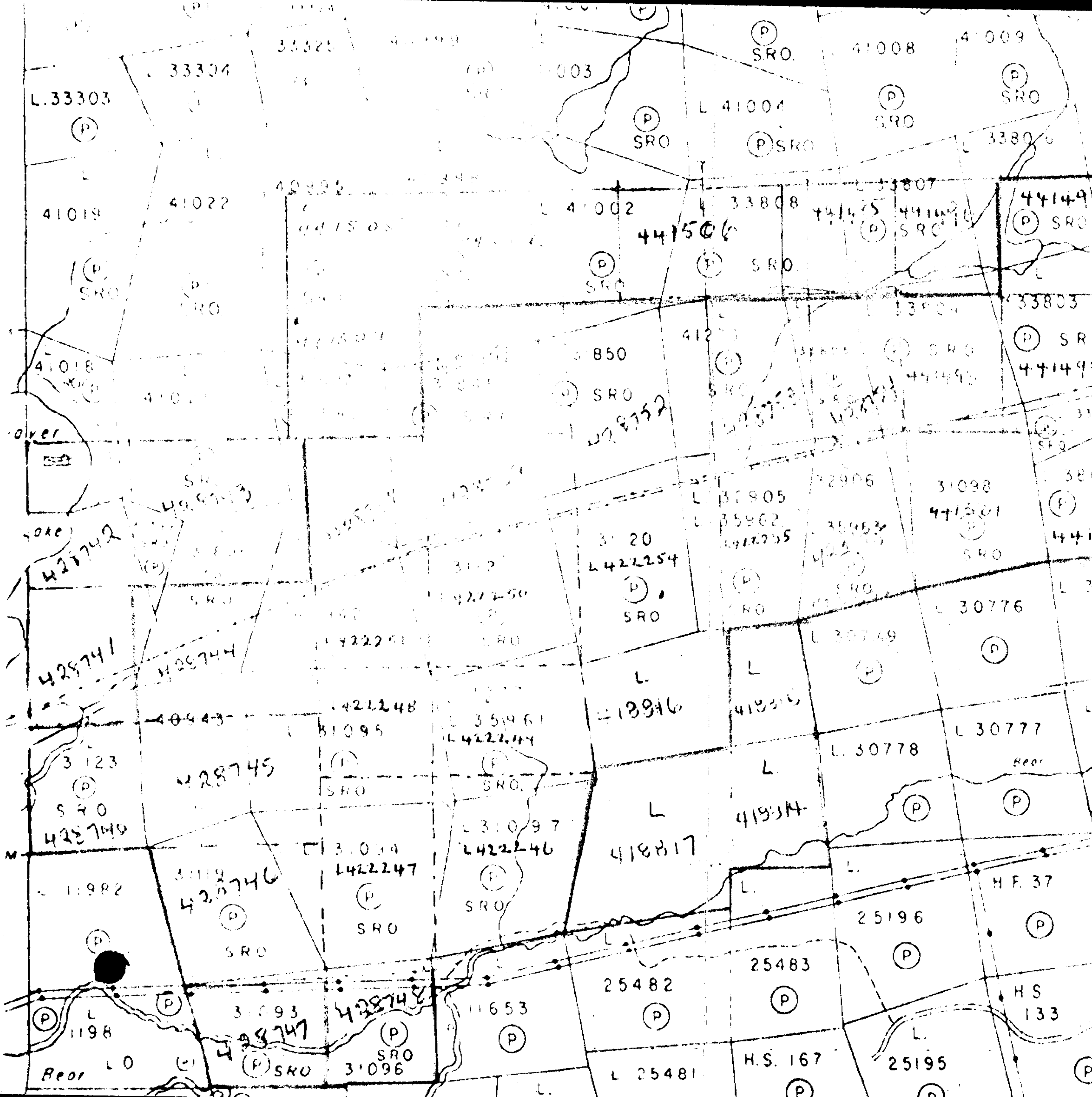
RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo/Cu	As	Au
1	L 8E 610 16+50N	26	32	160	<.2		3	.5	<.01
2	611 17+00N	24	29	171	.3		4	2	
3	12 17+50N	24	37	141	.3		3	3	
4	13 18+00N	30	40	185	.2		2	1	
5	L 16E 14 18+00N	26	46	286	.2		4	1	
6	15 17+50N	20	31	300	.3		2	1	
7	16 17+00N	25	41	225	.2		4	.5	
8	17 16+50N	23	29	257	<.2		5	1	
9	18 16+00N	24	40	216	<.2		5	3	
10	19 15+50N	22	46	205	.6		4	3	
11	620 15+00N	21	43	149	.2		6	2	
12	21 14+50N	20	33	270	<.2		2	.5	
13	22 14+00N	21	36	137	.3		5	1	
14	23 13+50N	30	53	233	.4		6	2	
15	24 13+00N	24	45	196	.5		4	.5	
16	25 12+50N	21	36	156	.4		3	.5	
17	626 12+00N	27	54	232	.4		3	1	
18									
19									
20									
21									
22									
23									
24									

DATE July 18-75 SIGNED Ints Prin

CTA

SAMPLES DISCARDED AFTER TWO MONTHS UNLESS STORAGE INSTRUCTIONS ARE SUPPLIED BY CLIENT.


L.33303
33304
41008
41009
SRO
L 41004
41019
41022
L 41002
33808
441506
33807
44149
33803
41018
3850
31098
441501
L 37905
L 35962
32906
L422254
L 30776
L 30777
L 30778
428742
428741
428744
428745
3123
428749
428746
L422247
L 31097
L422246
L 418817
L 419314
L 418916
422248
31095
L 35961
L 422244
HE 37
25196
25483
25482
11653
HS 133
L 1198
31093
428747
428748
31096
H.S. 167
L 25481
25195
Bear

Ontario

Ministry of Natural Resources

File 2.1943

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPE
FACTS SHOWN HERE NEED N
TECHNICAL REPORT MUST CONTAIN

Type of Survey(s) Biogeochemical

Township or Area McGarry Township

Claim Holder(s) Lee Geo-Indicators Limited, In trust

Survey Company Lee Geo-Indicators Limited

Author of Report S.A. Scott

Address of Author c/o Lee Geo-Indicators Limited Box 68, Stittsville, Ont. K0A 3G0

Covering Dates of Survey June 2, 1975- Aug. 30, 1975 (linecutting to office)

Total Miles of Line Cut 7.5 (3.3 cut&chained; 4.2 flagged & chained)

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	
–Magnetometer	
–Radiometric	
–Other	
Geological	
Geochemical	

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

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

DATE: Oct. 7/75 SIGNATURE: Hubert A Lee. Author of Report or Agent

2.1625 & also

Res. Geol. _____ Qualifications On this file

Previous Surveys

File No.	Type	Date	Claim Holder
No previous work filed.			

LD

900

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
	L418816
L	422251
	L422246
	L422247
	L422248
	L422249
	L422250
	L422254
	L422255
	L428741
	L428743
	L428744
	L428745
	L428749
	L428750
	L428752
	L428753
	L428754
	L428775
	L441498
	L441501

TOTAL CLAIMS 21

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

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

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken McGarry- L418816,L422251,L422246, L422247, L422248, L422249,L422250, L422254, L422255; L428741,L428743,L428744,L428745, L428749, L428750, L428752, L428753, L428754, L428775; L441498, L441501

Total Number of Samples 337

Type of Sample vegetation
(Nature of Material)

Average Sample Weight 50 grams

Method of Collection not disclosed

Soil Horizon Sampled not disclosed

Horizon Development NA

Sample Depth NA

Terrain muskeg changing to steep slopes at ends of profiles

Drainage Development poor

Estimated Range of Overburden Thickness 1 to 80 feet

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis all

General Sample pelletized, pulverized and 5 grams ashed slowly at 400° C. to get rid of organic

ANALYTICAL METHODS

Values expressed in: per cent ☐ p. p. m. ☒ p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others Cr, Au

Field Analysis (NA tests)

Extraction Method

Analytical Method

Reagents Used

Field Laboratory Analysis

No. (NA tests)

Extraction Method

Analytical Method

Reagents Used

Commercial Laboratory (all tests)

Name of Laboratory Technical Services Labs

Extraction Method see below

Analytical Method see below

Reagents Used HCL, Aqua Regia

General 50% HCl to rid organic. Gold extr. methyl iso-butyl ketone then AA. As by Gutzeit chromatographic. Cu,Pb,Zn,Ag by AA air-acetylene flame. Cr by ash with aqua regia dilute then AA using nitrous oxide-acetylene flame

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

Katrine Tp. (M. 357)

MUNICIPALITY OF LARDER LAKE — IMPROVEMENT DISTRICT OF MC GARRY

Gauthier Tp. (M. 350)

McGarry Tp. (M. 369)

Hearst Tp. (M. 354)

Gem Lake
Beaverhouse Lake 950
Gold Lake
Lemieux L.
Sourdough L.
Coate L.
Spectacle Lakes
Grosby Lake
Beaver Lake
Monocle L.
Moosehead Lake
Malone Lake
Bear Lake
Binney Lake
Marjorie L.
Pancake L.
Diamond Lake
Larder Lake
Blackwell Lake
Tournene L.
Leroy Bay
Pearl Beach
Northeast Arm
Northwest Bay
LARDER LAKE
Town of Larder Lake
Misamo River
Fork L.
Monocle Creek
NORTHLAND
ONTARIO
H.E.P.C.
RWY. No. 66
H.E.P.C. L.O. 2386 & L.O. 1596
L.O. 6165
L.O. 5847
L.O. 6162

THE TOWNSHIP OF

2·1943

McVITTIE

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH - 40 CHAINS

LEGEND

PATENTED LAND	● or (P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.
PATENTED S.R.O.	

NOTES

400' SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS.

Staking of mg. claims within the area shown thus ▨ Town of Larder Lake - Subject to Sec.37(b) of the Mining Act (R.S.O. 1970)

DATE OF ISSUE
MAR 24 1976
SURVEYS AND MAPPING BRANCH

PLAN NO. M.370

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

32D04NE0100 2.1943 MCVITTIE

OSSIAN TWP. M-378

McVITTIE TWP. M-370

PROVINCE OF QUEBEC

McFADDEN TWP. M-368

THE TOWNSHIP OF

2.1943

Mc GARRY

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1 INCH = 20 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

NOTES

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

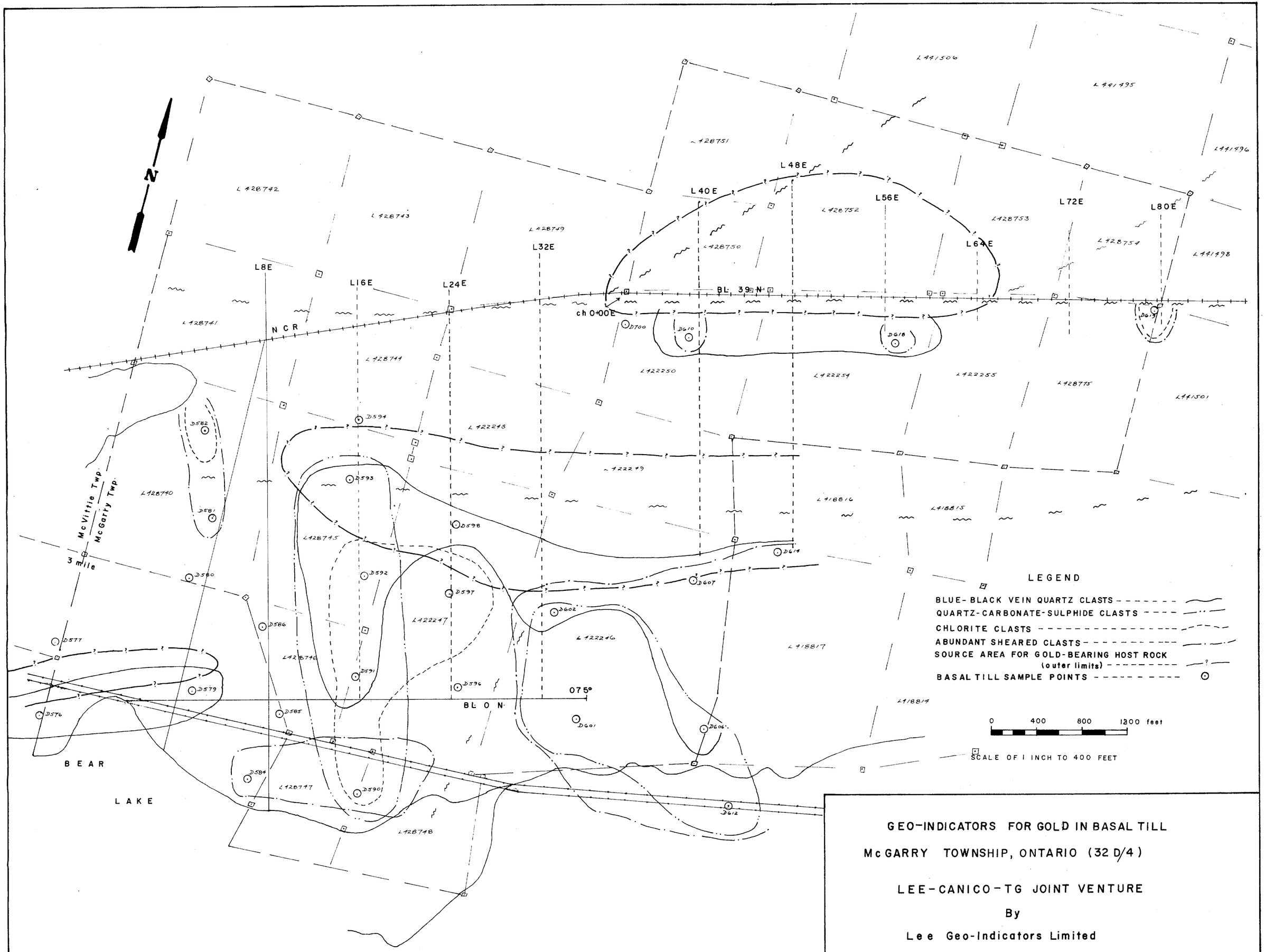
* Geochemical and Assaying of Samples

PLAN No. M-369

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH



LEGEND

- BLUE-BLACK VEIN QUARTZ CLASTS
- QUARTZ-CARBONATE-SULPHIDE CLASTS
- CHLORITE CLASTS
- ABUNDANT SHEARED CLASTS
- SOURCE AREA FOR GOLD-BEARING HOST ROCK (outer limits)
- BASAL TILL SAMPLE POINTS

0 400 800 1200 feet

SCALE OF 1 INCH TO 400 FEET

GEO-INDICATORS FOR GOLD IN BASAL TILL

McGARRY TOWNSHIP, ONTARIO (32 D/4)

LEE-CANICO-TG JOINT VENTURE

By

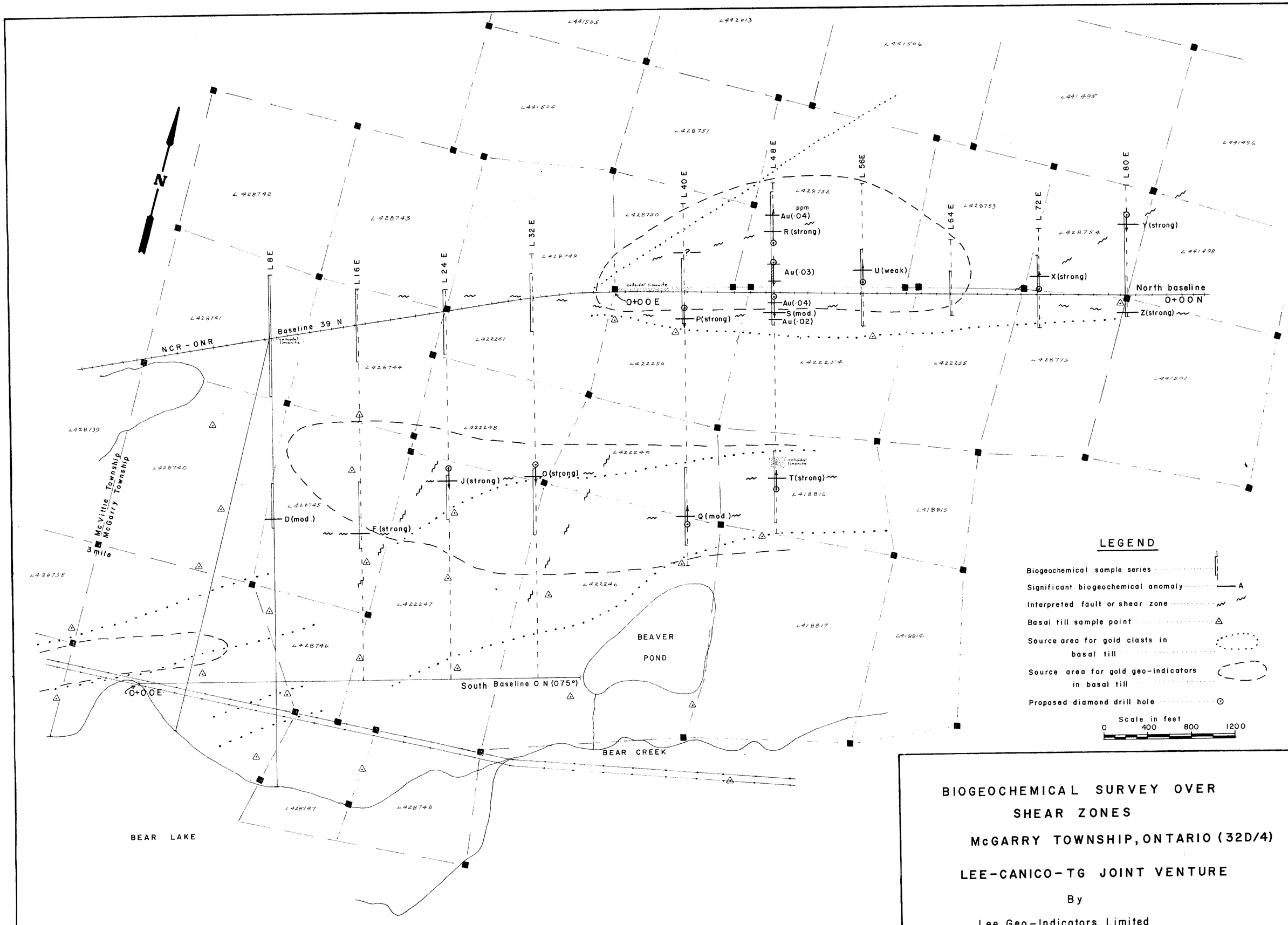
Lee Geo-Indicators Limited

Hulbert A. Lee — July, 1975

Hulbert A. Lee

230

2.1943



LEGEND

- Biogeochemical sample series
- Significant biogeochemical anomaly — A
- Interpreted fault or shear zone
- Basal till sample point
- Source area for gold clasts in basal till
- Source area for gold geo-indicators in basal till
- Proposed diamond drill hole

Scale in feet
0 400 800 1200

BIOGEOCHEMICAL SURVEY OVER SHEAR ZONES

McGARRY TOWNSHIP, ONTARIO (32D/4)

LEE-CANICO-TG JOINT VENTURE

By

Lee Geo-Indicators Limited

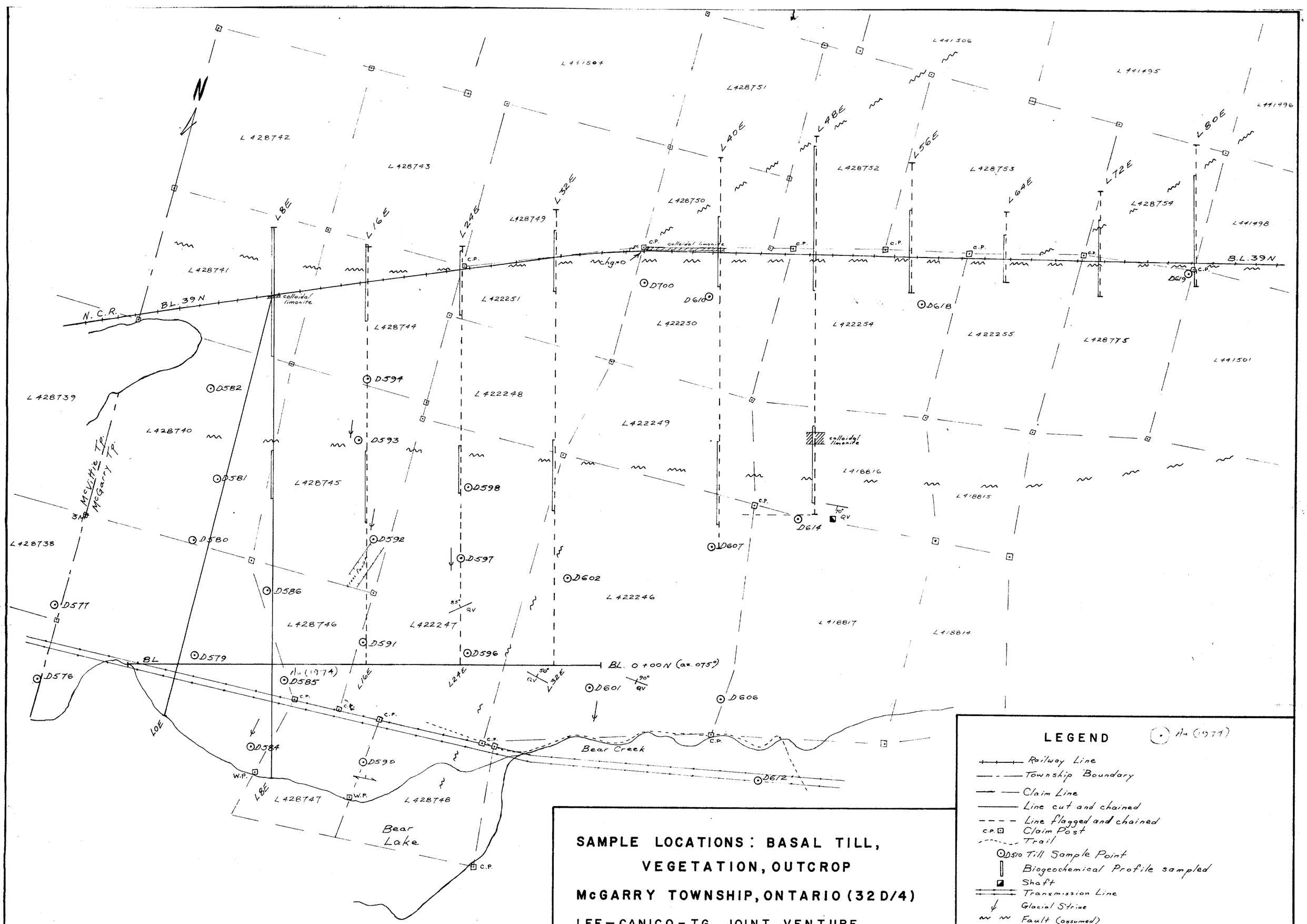
Susan A. Scott

July, 1975

Scale: 1 inch = 400 feet

240

2.1943



SAMPLE LOCATIONS: BASAL TILL, VEGETATION, OUTCROP

McGARRY TOWNSHIP, ONTARIO (32 D/4)

LEE-CANICO-TG JOINT VENTURE

BY

LEE GEO-INDICATORS LIMITED

S.A. SCOTT

JULY, 1975

2.1943

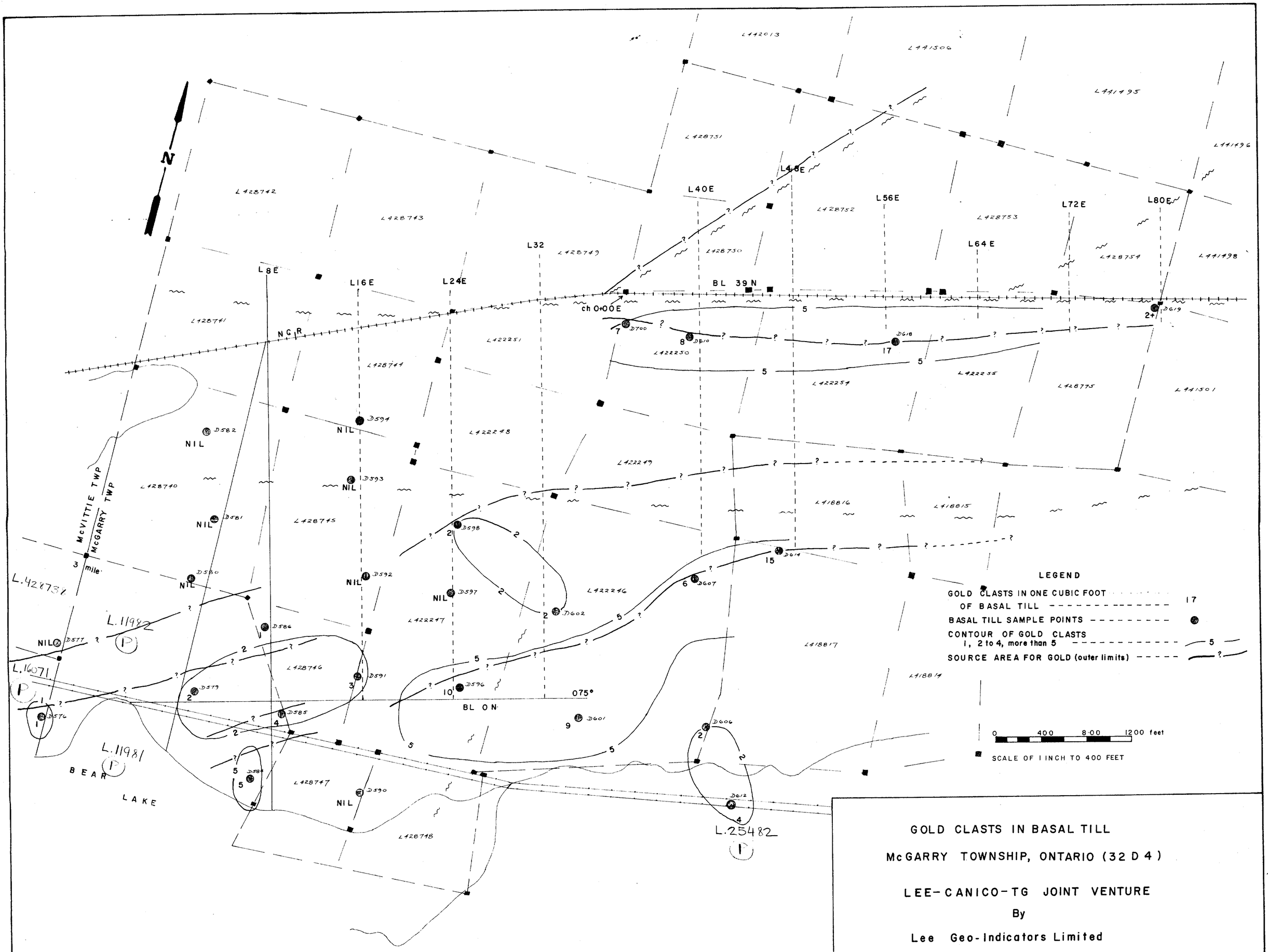
LEGEND

- Railway Line
- Township Boundary
- Claim Line
- Line cut and chained
- Line flagged and chained
- C.P. Claim Post
- Trail
- D510 Till Sample Point
- Biogeochemical Profile sampled
- Shaft
- Transmission Line
- Glacial Striae
- Fault (assumed)
- Au (1974)

0 400 800 1200 feet

Scale: 1 inch = 400 feet

250



GOLD CLASTS IN BASAL TILL

McGARRY TOWNSHIP, ONTARIO (32 D 4)

LEE-CANICO-TG JOINT VENTURE

By

Lee Geo-Indicators Limited

Hulbert A. Lee July, 1975

Hulbert A. Lee

2.1943

OSSIAN TWP. M-378

McVITTIE TWP. M-370

PROVINCE OF QUEBEC

McFADDEN TWP. M-368

THE TOWNSHIP OF

Mc GARRY

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1 INCH = 20 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S
LEASES	(L)
LOCATED LAND	Loc.
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MINING RIGHTS ONLY	M.R.O
SURFACE RIGHTS ONLY	S.R.O
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

NOTES

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JAN 2 1 1976
SURVEYS AND MAPPING BRANCH

PLAN No. M-369

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

32D84NE0100 2.1943 MCVITTIE

200