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FINAL REPORT ON THE
McINTYRE LEASE AREA, E.L. 7/68.

MICROFILMED

PREPARED BY

GEOPHOTO RESOURCES CONSULTANTS

FOR

TEXINS DEVELOPMENT PTY. LTD.

BY

A.C. Johnston
Field Geologist
23 December, 1973.

ANG COORDINATES

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TABLE OF CONTENTS

ABSTRACT	Page 1
ACKNOWLEDGEMENT	2
INTRODUCTION	3
1. Lease Area, Location, Access	3
2. Previous Exploration Activity	3
3. The Mariposa Lead-Zinc Mine	5
4. The Exploration Programme of Geophoto	6
EXPLORATION ACTIVITIES OF GEOPHOTO	8
1. Photogeology	8
2. Geophoto Grid and Anomaly No. 1 Area	8
3. Turair Survey	9
4. Turair Anomalies Nos. 7 and 8	9
5. Turair Anomalies Nos. 32A, 32B and 32C	10
DISCUSSION OF RESULTS	11
1. Geophoto Grid and Anomaly No. 1 Area	11
2. The Howard Grid	16
CONCLUSIONS AND RECOMMENDATION	20
REFERENCES	21
1. Reports	21
2. Maps	23
3. Analyses	25

ABSTRACT

During 1973, an exploration programme was undertaken in the McIntyre portion of E.L. 7/68, West Tasmania, by Geophoto Resources Consultants acting as exploration consultants to the licence holder, Texins Development Proprietary Limited.

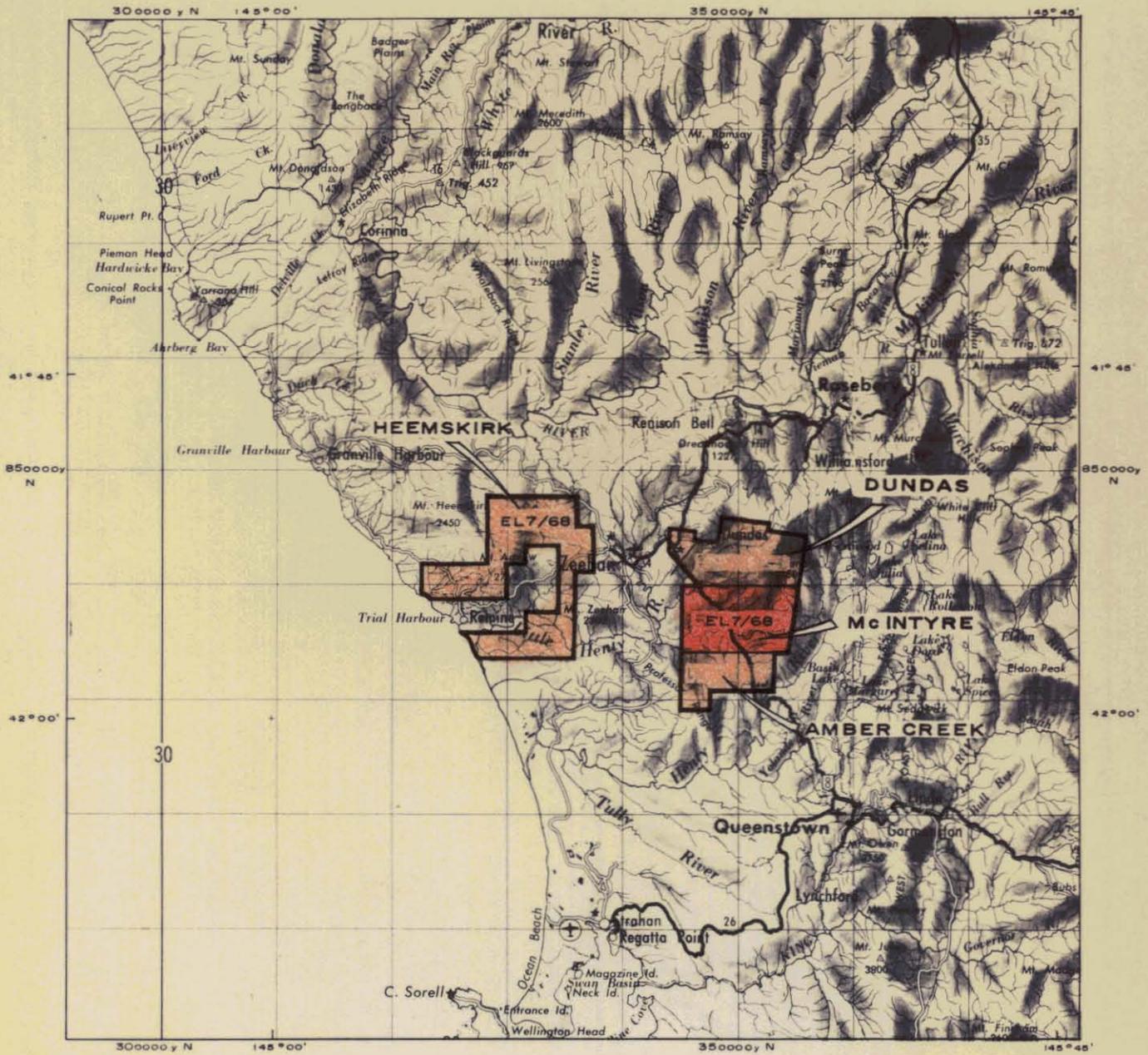
The field programme involved detailed and reconnaissance geology in association with soil and rock geochemical and ground geophysical surveys. An initial photogeological study was also made of the area.

Initially, the emphasis was placed on the investigation of the southward extension of the South Comet-Kosminsky fracture zone and assumed associated Pb-Zn mineralization. Later, when the results of a Turair survey became available, the ground checking of selected airborne electro magnetic anomalies constituted the second phase of the exploration effort.

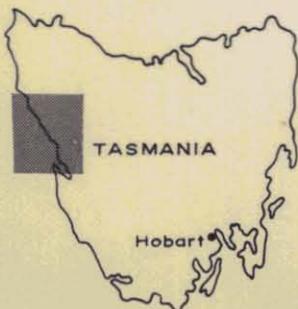
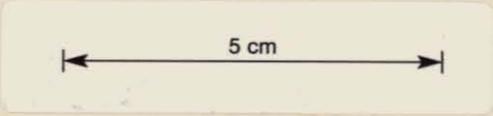
Following from the interpretation of the results of the above programme, it was concluded that the McIntyre area held little economic minerals potential.

ACKNOWLEDGEMENT

Geophoto Resources Consultants wishes to acknowledge the good-will shown by McIntyre Mines (Aust.) Pty. Ltd., the previous licence holders, with regard to their passing on to Geophoto the results of their field programme carried out from November, 1968 to March, 1970.



Scale : 1:500,000



EXPLORATION LICENCE 7/68

December 1973

INTRODUCTION

1. Lease Area, Location, Access

The McIntyre lease area, located between the Dundas and Amber Creek portions of E.L. 7/68, was taken up by Texins Development Pty. Ltd. in June, 1972, after having been allowed to lapse by McIntyre Mines (Aust.) Pty. Ltd. The exploration licence originated as S.P.L. 46 but was later incorporated into E.L. 7/68.

The McIntyre lease covers an area of 18.7 square miles and lies to the southeast of the township of Zeehan (see Drawing A-101). Topographically the lease area varies from low-lying button grass swamps in the southeastern sector to densely timbered, rugged, mountain spurs to the north and northeast. Overall relief is in excess of 2,700 feet and detailed exploration activity is both arduous and expensive. Rainfall averages 100 inches per annum and is relatively evenly distributed throughout the year.

Major access to the lease area is from the main Zeehan-Queenstown highway but foot traverse is almost impossible through the dense undergrowth of the heavily forested mountain slopes. The Howard private timber road, which joins the main highway seven miles from Zeehan, was extended by Geophoto almost to the north boundary of the lease area and now provides four-wheel drive access to the areas of interest on the South Comet-Kosminsky and Montezuma Fault trends.

2. Previous Exploration Activity

Though the area had been held previously by other companies as part of larger tenements, prior to McIntyre Mines

106

taking out a licence in 1968 no systematic exploration had been carried out. One exception would be the development and production activities at the abandoned Mariposa lead-zinc mine in the extreme northwestern corner of the lease area, to which reference is made below. McIntyre Mines' exploration activities and general conclusions may be summarized as follows.

Sharwood (1968, 1969) and Pollock (1970) note that the lease area is located adjacent to highly mineralized belts within the metallogenic province of Northwest Tasmania. The area is situated southeast and south of the formerly producing fields of Zeehan and Dundas while immediately to the east is the generally mineralized belt or trend that includes the Rosebery (Pb-Zn) and Mount Lyell (Cu) producing mines. Additionally, the geologic framework of the lease area exhibits a structurally complex block of Lower Cambrian rocks which are frequently claimed to be the host rocks of all the major ore deposits of the metallogenic province.

Stream sediment surveys completed by McIntyre Mines over most of the lease area succeeded in defining one geochemical anomaly of significant area extent and with favourable geological and structural associations. This anomaly, designated Anomaly No. 1 (see Drawing A-101), yielded anomalous stream sediment samples with lead analyses up to 450 ppm Pb. Background and threshold values for Pb approximate 50 ppm and 100 ppm, respectively.

A follow-up, grid-controlled, soil sample survey over the location of Anomaly No. 1 defined a narrow Pb anomaly more than 400 feet long (see Drawing M-109) that was interpreted as a possible narrow vein of base metal mineralization concealed by the soil and scree. At this stage McIntyre Mines discontinued exploration activities although it was recommended that geophysical surveys be undertaken if it were decided further

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effort was warranted.

3. The Mariposa Lead-Zinc Mine (see Drawing A-101).

Also of interest within the McIntyre lease area is the abandoned Mariposa Lead-Zinc Mine. This Pb-Zn occurrence and former producer, located within the Ordovician Gordon Limestone at a faulted contact with Crotty Quartzite of Silurian age, is regarded as a fissure filling, replacement-type deposit.

Prior to McIntyre Mines' activities, several companies had investigated the old workings and adjacent area including North Broken Hill in 1947, Zeehan Exploration in 1951, and Rio Tinto (Australia) Exploration in 1957. In general, diamond drilling had indicated a small tonnage, low grade, type of deposit. This general conclusion, plus the narrow widths of the mineralized veins and the potential water problems when mining, deterred any further exploration activities.

During 1971 McIntyre Mines investigated the possibility of a southerly extension of the Mariposa lodes, specifically seeking to significantly increase the tonnage indicated to date (possibly a quarter to half a million tons). An induced polarization survey was completed and four diamond drill holes were put down. Only minor Pb-Zn mineralization was intersected and it was concluded that southerly extensions of the Mariposa lode was improbable.

In relation to Geophoto's general exploration target of two million plus tons of medium to high grade base metals the abandoned Mariposa Mine is of only passing interest and will not be discussed further in this final report.

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4. The Exploration Programme of Geophoto

Geophoto's prime purpose in acquiring, evaluating and exploring the McIntyre lease area was to test the southerly extension of the South Comet-Kosminsky fracture zone with its associated sporadic, low grade, Pb-Zn mineralization. Exploration work on the Dundas lease area immediately to the north had proven the extension of the fracture zone from the South Comet mine workings to the headwaters of Mariposa Creek. The detailed geological, geochemical, and geophysical surveys over the East South Comet, Mariposa East, and Mount Dundas grids substantiated the deduction that resulted from photogeologic studies, viz. the South Comet fracture zone continued southerly into the McIntyre lease area and most probably terminated at the prominent north-south lineament that is the Montezuma Fault.

If detailed surveys could establish significant drilling targets, further expenditures may be warranted for road building and diamond drilling if the objective was to measurably increase the small tonnage of base metal ore outlined to date (1972) within the Dundas lease area.

Of secondary interest was the appraisal of McIntyre Mines' Anomaly No. 1 which, by location, did not appear to fit within the exploration thesis outlined above.

The remainder of the McIntyre lease area was considered of no interest to Geophoto. The abandoned Mariposa Mine workings were considered thoroughly tested by prior exploration activities. A final check on the potential of the lease area was considered to be a proposed Turair survey of a major portion of E.L. 7/68 which was planned for early 1973.

Several years of detailed exploration activity over E.L. 7/68 by Geophoto had consumed nearly one million dollars by the time of acquisition of the McIntyre lease area. Experience

had by then established economic parameters which indicated that the arduous operating conditions of the densely timbered terrain demanded base metals discoveries better than the isolated medium to high grade pods which characterised the Zeehan and Dundas mining fields.

EXPLORATION ACTIVITIES OF GEOPHOTO

1. Photogeology (see Drawing M-106)

A photogeologic interpretation was completed for the whole McIntyre lease area utilising both black and white and colour air photos. The study, in addition to establish the basic geological pattern, served as a useful structural guide for the ensuing reconnaissance and detailed field mapping. As already noted, the intersection of the South Comet-Kosminsky fracture zone and the prominent north-south trending Montezuma Fault to the south of Mount Dundas, was readily deduced by photogeologic study.

2. Geophoto Grid and Anomaly No. 1 Area (see Drawing A-101)

(a) A grid of 14,000 line-feet, designated the Geophoto Grid to differentiate it from the prior line-cutting activities of McIntyre Mines, was laid out over the inferred junction of the South Comet-Kosminsky fracture zone and the Montezuma Fault.

Detailed geological mapping, soil geochemistry surveys, and VLF-EM surveys were completed over the gridded area. Some rock-chip geochemical sampling was carried out in conjunction with the mapping and prospecting activities.

The Geophoto Grid was later extended (see below).

(b) The area to the immediate southeast of the Geophoto Grid was subsequently investigated by reconnaissance mapping, mainly stream traversing, with associated detailed prospecting and rock-chip geochemistry.

A reconnaissance VLF-EM survey was completed over the lines

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of the already established McIntyre Mines' soil geochemistry grid which blanketed the Anomaly No. 1 locality.

Field data were plotted at a scale of 1 inch = 200 feet. The geological mapping served as a working base control for the plotting and evaluation of the geochemical and geophysical data.

3. Turair Survey (see Turair Report of Scintrex Pty. Ltd.)

Between 28 January and 5 February, 1973, a Turair survey was completed over a major portion of E.L. 7/68. This airborne EM survey represented a concluding phase of the multi-year exploration programme for Northwestern Tasmania.

The survey, contracted to Scintrex Pty. Ltd., was aimed at detecting sub-surface conductive zones to medium depth which may be indicative of base metal mineralization. In addition, it was accepted that both the magnetic and electromagnetic data would aid in the interpretation of the geological data, particularly in areas of overburden and dense timber growth.

The Turair survey resulted in some 41 electromagnetic distortions, eight of which were considered as primary targets for subsequent ground-check programmes. Five of the primary targets are located in the McIntyre lease area. Ground investigation of these anomalies constituted the second phase of exploration.

4. Turair Anomalies Nos. 7 and 8.

These anomalies are located on the Scintrex report plans in the central-north part of the lease area and immediately east of the Geophoto Grid.

Ground-checking included the extension of the existing grid lines followed by the extension of the geological mapping, geochemical soil sampling, and the VLF-EM survey (see Plate 2, Scintrex Report, and Drawing M-103).

5. Turair Anomalies Nos. 32A, 32B, and 32C

This group of anomalies are located in the southwestern portion of the lease area, about 2,000 feet east of the junction of the Howard timber road and the main Zeehan-Queenstown highway. A grid totalling 23,000 line-feet, designated the Howard Grid, was cut to cover all of the anomalies and adjacent terrain.

Reconnaissance geological mapping was completed by utilizing the stream courses and cut lines of this densely timbered, leech-infested, area. Detailed prospecting, rock-chip geochemistry, selective soil geochemical surveys, and an EM survey were also completed (see Scintrex Report, Plate 1, and Drawing H-5).

DISCUSSION OF RESULTS

The results of the exploration programme which was conducted in 1972 and 1973 over the McIntyre lease area are considered under two main headings, viz. -

- 1. Geophoto Grid and Anomaly No.1 Area, and
- 2. The Howard Grid.

When reviewing this discussion, continuing reference should be made to the written reports, maps, and assay results which accompany this report or which are listed in the Appendices.

1. Geophoto Grid and Anomaly No. 1 Area

(a) Geology (see Drawings M-107 and M-109)

The major rock types are the slates and tuffites of the Dundas Group, of middle Cambrian age.

Slates are the dominant rock type, ranging from flaggy to very fissile in nature. They are frequently finely colour-banded and occasionally tuffaceous. Minor dark grey to black graphitic slates are reported in the area.

Grey to greenish-grey tuffites comprise the subordinate rock type, occurring as interbedded units averaging twenty-five feet in thickness. The tuffites are frequently quartzose and generally exhibit abundant, randomly-oriented or joint-controlled, quartz stringers. Occasionally they are dolomitic in composition and at some localities include abundant rounded to sub-rounded quartz and quartzite pebbles.

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(b) Structure and Mineralization

The lease area is structurally simple when compared with the central Dundas lease area.

Generally, the strata dip steeply east or south-east although in the northwest part of the lease area, and within the Geophoto Grid area, the dip is steeply northwest. This combination reflects the presence of a major north-northeasterly trending anticline which crosses the gridded area and trends sub-parallel to the southern portion of the Montezuma Fault.

The most prominent structural feature is the southern extension of the Montezuma Fault. This feature appears on the air photos as a distinct lineation with a north-northeasterly trend and its presence was confirmed in the course of the geological mapping.

Within the northwestern sector of the Geophoto Grid a fairly well defined northwesterly trending fault or fault zone was located which appears to continue southeast to join the Montezuma Fault. At one locality this structure has an apparent horizontal displacement of 35 feet. It is fairly well exposed along a creek which it parallels and it thus exhibits a "good fit" with the inferred location of the southeastern continuation of the South Comet-Kosminsky fault zone. Despite careful prospecting, no mineralization was observed in this structure.

Throughout the mapped area the only trace of mineralization was a small speck of galena in green-grey, well jointed, dolomitic tuffite at grid station 00/00.

(c) Soil Geochemistry (see Drawings M-104, M105, M-112)

The entire Geophoto Grid and its later extensions were

covered by bedrock soil sampling at 50 feet intervals on line spacing of 200 feet and 400 feet. A total of 431 samples were collected and analysed for Cu, Ni, Co, Pb, Zn and Ag.

The assay data were statistically evaluated by the Lepeltier (1969) method, yielding background and threshold values as follows:-

Pb	b = 75 ppm	t = 175 ppm
Zn	b = 102 ppm	t = 279 ppm
Cu	b = 23 ppm	t = 80 ppm

The initial soil sampling programme data when plotted, shows low contrast Pb anomalies, the best defined of which serves to broadly outline the extension of the South Comet-Kosminsky fracture zone. This particular anomalous trend, although poorly defined, appears to terminate southeasterly in the vicinity of the Montezuma Fault but is open to the northwest.

Additional soil sampling was conducted after the baseline of the Geophoto Grid was later extended to 28.5 N (2850 feet from origin) and the line spacing was increased from 400 feet to 200 feet. A second generation contouring of Pb values to include the additional sampling serves to accentuate the anomalous northwesterly trend which coincides with the sought after fracture zone.

Interpretation of this anomaly as defining the location of the South Comet-Kosminsky fault zone should be qualified by two facts, viz. -

(a) low contrast Pb anomalies tend to parallel the general strike of the strata, suggesting lithological control. Note also that the rock geochemistry data show strong background

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differences certainly exist between differing rock types. For example, background Cu content of tuffites fluctuates about a mean of 7 ppm; grey slates have a background value approximating 35 ppm.

(b) terrain conditions are not ideal for soil sampling. Soil cover is erratic both in thickness and quality while the steep terrain may well create clastic dispersion conditions in this excessively wet climate.

However, all available geochemical data and field observations support the final conclusion that the possibility of significant, concealed base metals mineralization along the south-easterly extension of the South Comet-Kosminsky fracture zone is remote and there is little or no economic justification in proposing additional exploration activities in this high-cost locality.

The initial Geophoto Grid was enlarged to the north and east to give complete coverage of Turair Anomalies Nos. 7 and 8. Soil sampling of the extensions located minor and scattered low contrast Pb values.

(d) Rock Geochemistry (see Drawings M-108, M-110, M-111)

A total of 164 rock-chip samples was collected over the Geophoto Grid and from localities immediately to the north. The sampling interval was entirely dictated by the paucity of outcrop. The rock-chip samples were analysed and evaluated in a similar manner to that employed in the soil sampling programme. Computed background and threshold values are:-

Pb	b = 44 ppm	t = 96 ppm
Zn	b = 147 ppm	t = 255 ppm

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Anomalous values for Pb and Zn are scattered and largely preclude any meaningful interpretation. The major low contrast Pb soil anomaly is not reflected by rock-chip geochemistry along the creek where the fault zone is known to exist. Two possible exceptions to this conclusion are samples MCC-2 and MCE-2.

Four anomalous values for both Pb and Zn occur at the eastern extremities of grid lines 16N and 20N and may be significant when considered only in relation to their proximity to the Turair anomalies. However, the soil sampling results do not support the rock geochemistry data.

The McIntyre Anomaly No. 1 could not be checked by rock geochemistry due to very poor outcrop in the area. An attempt was made to bulldoze a costean across the location of peak values for the anomaly. This work ultimately became prohibitively expensive and had to be abandoned. It is concluded that Anomaly No. 1 may reflect a local, narrow vein of base metal mineralization beneath the soil and scree cover but evaluation of all field data indicates the occurrence is of very restricted lateral extent and of dubious economic importance.

(e) Geophysics (see Sintrex Report, Plate 2; Drawing M-103)

Turair Anomalies Nos. 7 and 8 are spot anomalies with a conductivity in the order of 100 mhos and an interpreted depth of 9 metres. They are located on Scintrex plans to the immediate northeast of the original Geophoto Grid and close to where Quaternary talus and moraine deposits cover strata of the Dundas Group. Scintrex excludes the possibility that the anomalies reflect conductivity within the unconsolidated cover. The proximity of these anomalies to the projected South Comet-Kosminsky fault zone enhances their significance but their interpreted depth defies geological interpretation.

The Geophoto Grid was enlarged to encompass the localities of the Turair anomalies but the follow-up geological mapping, prospecting, soil sampling, and VLF-EM surveys provided no supporting evidence of significant mineralization.

Reconnaissance VLF-EM surveys were carried out over Anomaly No. 1 locality and over the entire Geophoto Grid. Results are generally poor and the proven value of this geophysical method within the Dundas lease area for defining drilling targets on sporadic small size pods of mineralization serves to substantiate the conclusion that no economic targets exist in the surveyed areas. A minor VLF-EM anomaly was outlined in the southeastern sector of the Geophoto Grid which may relate to a minor Pb soil anomaly resulting from the McIntyre Mines geochemical programme. No economic significance can be attached to this correlation.

2. The Howard Grid

(a) Geology (see Drawing H-1)

As is the general rule in this area, outcrop within and adjacent to the Howard Grid is very poor. Useful information, however, was gained by traversing the creeks and a geological sketch map at a scale of 1 inch = 100 feet is the result. Superficial moraine cover over a large portion of the gridded area is a handicap to geological and structural interpretation. Some knowledge of the geology was obtained and it is an important aid to the ultimate interpretation of the three Turair anomalies, besides serving as control for the geochemical and geophysical surveys.

The eastern portion of the grid is dominated by grey slates with minor interbedded tuffites. The slates occur rarely as a dark grey, tuffaceous variety.

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A feature of the central portion of the grid is a north-northwesterly trending arenaceous unit of about 150 to 200 feet in thickness. Northwards this unit is a medium - to coarse-grained pale grey, often pebbly, sandstone before it is concealed under moraine cover; southwest the unit grades into a quartz/quartzite, sandstone conglomerate with thin, interbedded tuffaceous grit and, rarely, grey slate.

Underlying the sandstone unit are grey slates which, in turn, apparently overlie a sequence of pale grey shales and subordinate interbedded pale grey sandstones.

A sequence of tuffite, tuffaceous sandstone, and siltstone that was mapped along the creek immediately north of the gridded area and along the Howard road, apparently bears no relationship to the geology of the gridded area. Superficial moraine cover prohibits interpretation of this apparently anomalous relationship.

All the strata mapped have been provisionally assigned to the Dundas Group of middle Cambrian age.

(b) Structure and Mineralization

The strata mapped within the Howard Grid exhibits a general north-northwesterly strike and dip steeply to the east. To the north the strike changes to a north-northeasterly orientation.

A north-northwesterly trending fault or fault zone was located in the western portion of the gridded area. The structure is clearly exposed in the creek near station 16S/2W, where it appears to dip 60° to 70° west.

No evidence of mineralization was noted although veinlets and small lenses of barren, often chloritic, quartz are associated with fractured slates.

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(c) Geophysics (see Scintrex Report, Plate 1; Drawing H-5)

As noted earlier, the purpose for establishing and exploring the Howard Grid was the ground-check of Turair Anomalies Nos. 32A, 32B, and 32C. These anomalies were classified by Scintrex as primary targets and interpreted as conductive bodies located at depth of from 50 to 80 metres.

Geological assessment of the Turair data suggested the possibility of Cu - Ni mineralization associated with gabbro dykes. Gabbro was known to outcrop in the southwestern sector of the McIntyre lease area and the outcrop appeared to be defined by the airborne magnetic anomalies, with values from 100 to 1500 gammas above background, of the Turair survey. Values up to 300 gammas above background were recorded in the vicinity of the three EM anomalies.

The geological mapping, however, was sufficiently detailed to disprove the presence of gabbro outcrop or rocks of similar basic composition.

The entire grid was covered by a good EM survey utilizing the high power McPhar vertical loop system. Dual frequency response from a 1000/5000 cps transmitter was received at 100-foot station intervals along all grid lines. Three transmitter locations were used when it was determined the useful receiver range was about 1000 feet under these given conditions.

The EM survey results were both profiled and plotted as overlays to the geological map. Crossover and inflection points exhibit no definite pattern that can be correlated to the known geological and geochemical data. A broad anomaly profile of possible significance was located on grid line 14S with crossovers at 7W and 2E. When the transmitter was relocated at position T3 for enhancement of readings the resulting survey failed to substantiate the possibility of a significant conductor.

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(d) Geochemistry (see Drawings H-2, H-3, H-4)

Following the disappointing results of the ground EM survey the exploration programme was concluded with a restricted geochemical survey over a 900 feet by 800 feet block which included the more significant EM results. Soil sampling of existing grid lines was completed at 50-foot intervals on a 200-foot line spacing. In general, the B soil horizon was successfully sampled although, in a few sample locations, the superficial moraine cover proved too compact for penetration by hand auger. A total of 72 samples were collected and analysed.

Profiling of the resulting geochemical data suggested the following background and threshold values:-

Pb	b = 10 ppm	t = 45 ppm
Zn	b = 12 ppm	t = 60 ppm
Cu	b = 7 ppm	t = 40 ppm
Ni	b = 7 ppm	t = 30 ppm

Because of the small sample population anomalous values are few and probably not too significant. Contouring the Pb and Zn values implies north-northwesterly to north-northeasterly sub-parallel trends which most probably reflect lithology. A total of 47 rock-chip samples collected within the gridded area revealed (a) Zn values significantly higher than the threshold value of Zn for soil sampling, and (b) Pb values comparable to the threshold for Pb by soil sampling.

It is therefore concluded that the limited geochemical programme failed to provide any encouragement for further exploration within the Howard Grid area.

CONCLUSIONS AND RECOMMENDATION

Investigation of the extension of the South Comet-Kosminsky fracture zone into the McIntyre lease area and appraisal of the results of a Turair survey of parts of the lease area resulted in a progressive minerals exploration programme during 1972 and 1973.

The difficult terrain and arduous field conditions combined to make this programme both time consuming and expensive. Significant geological, geochemical and geophysical data resulted but a continuing evaluation of the results within the terms of reference of the Geophoto exploration policy ultimately forced an abandonment of activities.

Experience gained in exploring the Dundas, McIntyre and Amber Creek leases indicates that little or no possibility remains for discovering economic mineralization within the McIntyre lease area.

The recommendation is therefore made that the McIntyre portion of E.L. 7/68 be allowed to lapse.

A.C. Johnston
23 December, 1973.

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(b) By Geophoto Resources Consultants

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Discala, L., 1973 (2): Progress report on the geological environment of Turair electromagnetic and magnetic anomalies. PR73/5, May, 1973.

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- Discala, L., 1973 (3): Status report on McIntyre area. March, 1973.
- Discala, L., 1973 (4): Progress report on followup soil geochemistry, Geophoto grid. July, 1973.
- Johnston, A., 1973: McIntyre area geochemistry. PR73/8, June, 1973.

(c) Miscellaneous

- Howland-Rose, A.W., 1973: Report on Turair airborne electro-magnetic-magnetic surveys in the Zeehan area, N.W. Tasmania. May, 1973.
- Lepeltier, 1969: A simplified statistical treatment of geochemical data by graphical representation, Econ. Geol. 64:538-550.

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2. Maps.

(a) McIntyre Area

Drawing Number

Title

M-101	Exploration Status of Area.
M-106	Photogeology.

(b) Geophoto Grid

M-103	VLF-EM Survey.
M-104	Soil Geochemistry Survey - Lead Values.
M-105	Soil Geochemistry Survey - Zinc Values.
M-112	Soil Geochemistry Survey - Copper Values.
M-107	Geology.

(c) Grid and Reconnaissance Area

M-108	Rock Geochemistry - Sample Locations.
M-110	Rock Geochemistry - Lead Values.
M-111	Rock Geochemistry - Zinc Values.
M-109	Geology.

(d) Howard Grid

M-113	Geology.
M-114	Soil Geochemistry Survey - Lead Values.
M-115	Soil Geochemistry Survey - Zinc Values

M-117	Soil Geochemistry - Lead and Zinc Profiles.
M-118	Soil Geochemistry Survey - Copper and Nickel Profiles.
M-116	VLF-EM Survey.
M-119	VLF-EM Survey Profiles.
M-120	VLF-EM Profiles.

027

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3. Analyses

(a) Geophoto Grid

- 1. Preliminary Soil Geochemical Survey - 1316/1,2,3.
1305/1,2,3.
1309/1,2,3,4,5.
- 2. Followup Soil Geochemical Survey - 1364/1,2,3,4.
1359/1,2.
- 3. Grid and Reconnaissance Area Rock
Geochemistry - 1332/1,2,3,4,5,6.

(b) The Howard Grid

- 1. Soil Geochemical Survey - 1484/1,2.
- 2. Rock Geochemical Survey - 1483/1,2,3.

(c) Miscellaneous

Lepeltier graphs for (a) 1,2,3 above.

028

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007435/36 PROJECT No. EL.7/68 - MacINTYRE

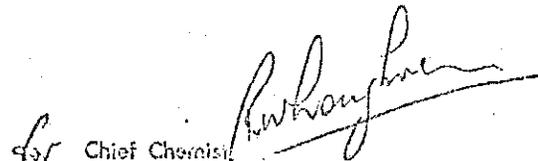
LAB. SHEET No. 1316/1 SAMPLE TYPE SOIL DATE 27th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
24N + 5.5E	73-D-672	60	40	55	175	185	2		
24N + 4.0E	73-D-673	40	20	10	95	90	BLD		
24N + 3.5E	73-D-674	25	20	10	100	65	2		
24N + 6.0E	73-D-675	15	15	10	70	50	3		
24N + 2.0E	73-D-676	140	50	155	270	180	4		
24N + 1.0E	73-D-677	25	20	10	140	50	3		
24N + 4.5E	73-D-678	35	5	BLD	110	105	BLD		
24N + 0.5E	73-D-679	15	10	BLD	70	20	1		
24N + 2.5E	73-D-680	70	20	85	180	110	1		
24N + 5.0E	73-D-681	40	10	15	125	60	1		
24N + 1.5E	73-D-682	50	20	65	270	70	1		
24N + 3.0E	73-D-683	20	20	15	100	70	2		
00 +19.0N	73-D-684	60	20	20	130	80	1		
00 +19.5N	73-D-685	35	5	10	60	50	BLD		
00 +12.5N	73-D-686	80	10	5	190	95	BLD		
00 +11.5N	73-D-687	95	10	55	360	100	1		
20N + 7.0E	73-D-688	50	15	30	150	80	1		
20N +14.5E	73-D-689	10	10	5	45	30	1		
20N + 4.5E	73-D-690	30	10	10	130	50	1		
20N + 8.5E	73-D-691	40	20	40	130	70	2		
00 +19.16B	73-D-692	40	10	20	120	55	1		
20N + 7.5E	73-D-693	30	15	20	90	45	1		
20N + 2.5E	73-D-694	20	20	10	80	40	BLD		
20N +10.5E	73-D-695	20	30	10	60	70	1		
20N + 8.0E	73-D-696	110	55	55	265	190	1		
20N + 6.0E	73-D-697	40	20	20	125	75	1		
20N + 3.0E	73-D-698	70	30	125	255	85	1		
20N +16.5E	73-D-699	5	60	15	30	60	1		
20N +15.0E	73-D-700	10	15	5	75	70	BLD		
20N + 9.0E	73-D-701	40	20	20	110	60	1		

METHODS:

Cu, Ni, Co, Pb, Zn, Ag by CRC NO. 1

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007435/36 PROJECT No. EL. 7/68 - MacINTYRE

LAB. SHEET No. 1316/2 SAMPLE TYPE SOIL DATE 27th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
20N + 2.0W	73-D-702	10	BLD	BLD	35	20	BLD		
20N + 18.0E	73-D-703	20	20	100	140	50	1		
20N + 15.5E	73-D-704	15	35	15	45	60	2		
20N + 16.0E	73-D-705	BLD	BLD	BLD	30	10	BLD		
20N + 5.5E	73-D-706	25	10	10	100	55	1		
20N + 3.0W	73-D-707	40	20	15	125	70	1		
20N + 11.0E	73-D-708	15	30	15	55	90	BLD		
20N + 3.5W	73-D-709	20	20	25	80	75	1		
20N + 9.5E	73-D-710	25	10	10	70	40	1		
20N + 4.0W	73-D-711	25	15	20	105	55	BLD		
20N + 1.5W	73-D-712	30	10	10	55	50	BLD		
20N + 1.0W	73-D-713	25	10	10	70	40	BLD		
20N + 13.0E	73-D-714	30	25	15	70	60	BLD		
20N + 12.5E	73-D-715	25	20	10	65	70	BLD		
20N + 6.5E	73-D-716	45	15	25	145	70	1		
20N + 2.5E	73-D-717	20	10	10	100	35	BLD		
20N + 4.0E	73-D-718	30	15	10	110	50	BLD		
20N + 0.5W	73-D-719	65	15	10	120	80	1		
20N + 5.0E	73-D-720	20	10	10	75	35	BLD		
20N + 12.0E	73-D-721	20	20	10	60	65	BLD		
20N + 4.5W	73-D-722	40	25	25	130	65	1		
20N + 18.5E	73-D-723	30	30	10	40	40	BLD		
20N + 7.0E	73-D-724	BLD	25	5	40	30	BLD		
20N + 3.5E	73-D-725	30	20	20	130	60	1		
20N + 0.5E	73-D-726	70	20	20	180	80	1		
20N + 14.0E	73-D-727	20	20	10	70	60	1		
20N + 5.0W	73-D-728	25	20	20	125	50	1		
20N + 19.0E	73-D-729	5	15	BLD	30	35	BLD		
20N + 1.0E	73-D-730	35	10	15	120	70	1		
20N + 17.5E	73-D-731	15	35	65	125	100	BLD		

METHODS:



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For Chief Chemist *R. W. Langhorne*

030

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007435/36 PROJECT No. EL.7/68 - MACINTYRE

LAB. SHEET No. 1316/3 SAMPLE TYPE SOIL DATE 27th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
20N + 1.5E	73-D-732	30	10	10	115	60	BLD		
20N + 19.5E	73-D-733	10	20	BLD	45	35	BLD		
20N + 10.0E	73-D-734	20	20	10	65	50	BLD		
20N + 2.0E	73-D-735	80	30	70	220	190	BLD		
20N + 13.5E	73-D-736	25	30	15	90	80	1		

METHODS:



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Chief Chemist

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031

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007424 PROJECT No. EL.7/68 - MACINTYRE

LAB. SHEET No. 1305/1 SAMPLE TYPE SOIL PROF. DATE 11th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
00 + 3.0E	73-D-324	30	40	15	55	85	1		
00 + 1.5E	73-D-325	BLD	5	BLD	10	20	BLD		
00 + 3.5E	73-D-325A	20	25	10	40	50	1		
00 + 5.5E	73-D-326	10	25	10	30	40	1		
00 + 10.0E	73-D-327	15	50	10	25	70	1		
00 + 9.5E	73-D-328	10	25	10	30	50	BLD		
00 + 4.0E	73-D-329	20	30	10	20	50	BLD		
00 + 5.0E	73-D-330	15	20	10	20	95	BLD		
00 + 4.5E	73-D-331	15	15	10	20	25	BLD		
00 + 7.0E	73-D-332	25	30	10	25	80	BLD		
00 + 2.0E	73-D-333	5	15	5	20	35	BLD		
00 + 6.0E	73-D-334	15	30	10	30	60	BLD		
00 + 9.0E	73-D-335	15	20	15	45	70	1		
00 + 6.5E	73-D-336	15	30	10	25	40	1		
00 + 00	73-D-337	15	30	20	65	80	BLD		
00 + 8.0E	73-D-338	10	15	10	35	40	1		
00 + 2.5E	73-D-339	35	60	20	40	105	BLD		
00 + 8.5E	73-D-340	10	20	10	40	60	BLD		
00 + 7.5E	73-D-341	20	40	10	30	70	1		
00 + 0.5E	73-D-342	10	10	5	50	50	BLD		
00 + 1.5E	73-D-343	5	20	10	60	40	BLD		
00 + 4.5W	73-D-344	25	20	10	70	80	1		
00 + 5.0W	73-D-345	30	20	15	110	85	1		
00 + 3.0W	73-D-346	20	25	10	40	55	1		
00 + 2.5W	73-D-347	25	35	40	80	80	1		
00 + 0.5W	73-D-348	10	15	10	30	40	1		
00 + 3.5W	73-D-349	30	20	10	60	70	1		
00 + 4.0W	73-D-350	30	10	5	125	60	1		
00 + 2.0W	73-D-351	30	30	20	110	85	2		
00 + 1.0W	73-D-352	10	10	5	55	35	BLD		

METHODS: Cu, Ni, Co, Pb, Zn, Ag by SRC NO. 1

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Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007424/25 PROJECT No.: EL. 7/68 - MACINTYRE

LAB. SHEET No.: 1305/2 SAMPLE TYPE: SOIL PROF. DATE: 11th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
00 + 1.5W	73-D-353	10	10	5	50	40	BLD		
00 + 0.5N	73-D-354	40	20	45	180	190	1		
00 + 2.5N	73-D-355	20	30	15	40	55	1		
00 + 3.5N	73-D-356	30	35	20	100	70	1		
00 + 1.5N	73-D-357	15	15	10	65	50	1		
00 + 4.0N	73-D-358	25	25	20	110	85	1		
00 + 1.0N	73-D-359	10	10	10	125	40	1		
00 + 3.5N	73-D-360	30	30	20	85	70	1		
00 + 2.0N	73-D-361	20	25	10	55	70	1		
4N + 9.0E	73-D-362	15	40	15	30	60	1		
4N + 8.5E	73-D-363	25	60	20	25	75	1		
4N + 10.0E	73-D-364	10	20	10	30	40	BLD		
4N + 8.0E	73-D-365	15	35	10	30	60	1		
4N + 1.5W	73-D-366	35	35	30	75	80	1		
4N + 6.5E	73-D-367	30	45	15	50	60	1		
4N + 5.0E	73-D-368	30	20	20	125	70	1		
4N + 2.5E	73-D-369	25	10	5	115	70	BLD		
4N + 2.0W	73-D-370	30	35	10	60	85	1		
4N + 2.0E	73-D-371	10	10	10	65	40	BLD		
4N + 7.5E	73-D-372	20	35	10	35	60	1		
4N + 1.0W	73-D-373	20	15	5	90	60	BLD		
4N + 3.5E	73-D-374	35	25	10	80	125	1		
4N + 4.5E	73-D-375	20	20	10	60	60	1		
4N + 9.5E	73-D-376	10	15	BLD	70	40	BLD		
4N + 1.0E	73-D-377	15	20	5	55	55	BLD		
4N + 3E	73-D-378	20	30	10	60	70	1		
4N + 0.5W	73-D-379	20	30	15	85	80	1		
4N + 4.5E	73-D-380	20	20	10	50	50	1		
4N + 4.0W	73-D-381	45	25	20	85	80	1		
4N + 4.5W	73-D-382	10	10	5	60	30	BLD		

METHODS:



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Chief Chemist

Ray W. [Signature]

33

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007425 PROJECT No. EL.7/68 - MACINTYRE

LAB. SHEET No. 1305/3 SAMPLE TYPE SOIL PROF. DATE 11th April, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
4N + 3.5W	73-D-383	10	10	BLD	40	30	BLD		
4N + 5.0W	73-D-384	20	10	10	60	50	BLD		
4N + 0.5E	73-D-385	15	35	10	60	65	BLD		
4N + 7.0E	73-D-386	20	30	10	50	85	1		
4N + 3.0W	73-D-387	20	25	10	60	60	BLD		
4N + 2.5W	73-D-388	30	35	25	150	85	BLD		
4N + 5.5E	73-D-389	40	20	30	140	65	1		
4N + 1.5E	73-D-390	10	15	5	50	85	BLD		
8N + 4.5W	73-D-391	30	25	30	55	155	1		
8N + 1.0W	73-D-392	40	20	20	65	95	BLD		
8N + 2.0W	73-D-393	25	25	10	45	60	BLD		
8N + 1.5W	73-D-394	55	40	25	105	110	1		
8N + 1.0E	73-D-395	35	30	25	130	80	1		
8N + 5W	73-D-396	40	20	20	80	75	1		
8N + 2.0E	73-D-397	40	30	15	75	90	1		
8N + 0.5E	73-D-398	30	30	20	60	90	1		
8N + 3.0W	73-D-399	50	25	20	70	95	1		
8N + 0.5W	73-D-400	75	60	45	100	195	1		
8N + 3.5W	73-D-401	40	15	20	70	40	1		
8N + 4.0W	73-D-402	45	15	15	65	55	1		
8N + 2.5E	73-D-403	30	30	15	60	70	BLD		
8N + 2.5W	73-D-404	55	20	25	65	80	BLD		
8N + 1.5W	73-D-405	35	20	20	70	60	BLD		
00 + 8.1N	73-D-406	30	30	20	75	85	BLD		

METHODS:



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Chief Chemist

Ray W. [Signature]

34

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007426 PROJECT No. EL.7/68 - MACINTYRE

LAB. SHEET No. 1309/1 SAMPLE TYPE: SOIL PROF. DATE: 12th April, 1973

-80 FRACTION

SAMPLE No.	LAB. No.	Cu PPM	Ni PPM	Co PPM	Pb PPM	Zn PPM	Ag PPM		
12N + 7.5E	73-D-408	35	20	35	100	110	2		
12N + 2.0E	73-D-409	30	20	10	55	65	2		
12N + 1W	73-D-410	45	10	25	145	55	2		
12N + 2.5E	73-D-411	50	30	35	90	80	2		
12N + 1.5W	73-D-412	30	15	10	125	50	2		
12N + 1.5E	73-D-413	40	55	40	85	290	2		
12N + 7.0E	73-D-414	25	30	15	55	160	2		
12N + 3.5W	73-D-415	20	10	10	95	55	1		
12N + 4.5W	73-D-416	30	10	10	145	50	1		
12N + 3.0E	73-D-417	50	30	25	75	90	BLD		
12N + 1.0E	73-D-418	70	35	60	95	240	1		
12N + 2.0W	73-D-419	30	10	20	75	50	BLD		
12N + 6.5E	73-D-420	20	20	10	65	120	BLD		
12N + 3.0W	73-D-421	30	15	10	85	50	1		
12N + 5.0W	73-D-422	25	10	10	85	50	BLD		
12N + 4.0E	73-D-423	50	40	40	115	140	2		
12N + 9.0E	73-D-424	30	40	10	55	120	2		
12N + 2.5W	73-D-425	30	10	10	105	55	2		
12N + 8.5E	73-D-426	20	20	10	55	70	2		
12N + 10.0E	73-D-427	10	10	5	45	50	1		
12N + 4.5E	73-D-428	40	30	20	70	110	2		
12N + 3.5E	73-D-429	50	35	30	70	90	1		
12N + 0.5W	73-D-430	70	10	20	340	70	BLD		
12N + 9.5E	73-D-431	15	20	10	65	40	BLD		
12N + 0.5E	73-D-432	40	15	15	175	70	BLD		
12N + 4.0W	73-D-433	25	15	10	65	40	1		
12N + 5.5E	73-D-434	30	30	15	75	130	1		
12N + 8.0E	73-D-435	30	30	20	70	80	1		
12N + 5.0E	73-D-436	30	30	20	55	75	1		
00 + 12.24N	73-D-437	25	10	10	85	75	1		

METHODS:

This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Cu, Ni, Co, Pb, Zn, Ag by CRC NO. 1

Chief Chemist

Ray
W. M. J.
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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007426/27 PROJECT No.: EL.7/68 - MACINTYRE

LAB. SHEET No.: 1309/2 SAMPLE TYPE: SOIL PROF. DATE: 12th April, 1973

-80 FRACTION

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
12N + 6.0E	73-D-438	25	25	10	65	100	2		
8N + 10.0E	73-D-439	70	120	25	75	180	2		
8N + 3.5E	73-D-440	10	20	10	65	40	BLD		
8N + 7.5E	73-D-441	10	20	BLD	35	70	BLD		
8N + 4.5E	73-D-442	10	30	10	35	50	BLD		
8N + 6.0E	73-D-443	10	BLD	BLD	55	25	BLD		
8N + 5.0E	73-D-444	20	30	10	45	40	BLD		
8N + 6.5E	73-D-445	2	5	BLD	35	20	BLD		
8N + 7.0E	73-D-446	10	5	BLD	65	20	BLD		
8N + 8.0E	73-D-447	10	30	10	55	60	1		
8N + 9.0E	73-D-448	30	50	15	45	90	1		
8N + 5.5E	73-D-449	10	20	10	35	30	BLD		
8N + 8.5E	73-D-450	20	30	10	95	110	1		
8N + 4.0E	73-D-451	30	30	10	75	60	BLD		
8N + 9.5E	73-D-452	20	35	10	80	55	BLD		
8N + 3.0E	73-D-453	25	20	15	85	70	1		
00 + 15.57N	73-D-454	20	10	10	65	30	BLD		
00 + 15.5N	73-D-455	30	15	10	95	60	BLD		
00 + 15.0N	73-D-456	30	10	10	195	35	BLD		
16N + 6E	73-D-457	10	10	5	35	30	BLD		
16N + 11.5E	73-D-458	10	30	10	40	60	BLD		
16N + 1.0W	73-D-459	40	10	10	135	50	BLD		
16N + 3.5W	73-D-460	30	20	10	65	45	1		
16N + 10.0E	73-D-461	20	30	10	85	50	BLD		
16N + 8.0E	73-D-462	15	30	10	65	50	BLD		
16N + 11.0E	73-D-463	20	50	10	75	80	BLD		
16N + 12.0E	73-D-464	10	30	10	55	50	1		
16N + 5.0W	73-D-465	20	10	10	65	20	BLD		
16N + 2.0W	73-D-466	50	20	30	105	55	2		
16N + 6.5E	73-D-467	20	20	10	70	55	BLD		

METHODS:

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Chief Chemist

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36



GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007427 PROJECT No.: EL.7/68 - MACINTYRE

LAB. SHEET No.: 1309/3 SAMPLE TYPE: SOIL PROF. DATE: 12th April, 1973

-80 FRACTION

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
16N + 3.0W	73-D-468	30	10	10	55	60	BLD		
16N + 9.0C	73-D-469	20	20	10	80	80	BLD		
16N + 13.5E	73-D-470	10	10	10	65	40	BLD		
16N + 2.5W	73-D-471	30	10	20	90	40	2		
16N + 4.5W	73-D-472	20	10	BLD	40	30	BLD		
16N + 13.0E	73-D-473	10	20	10	35	40	BLD		
16N + 1.5W	73-D-474	15	10	10	45	30	BLD		
16N + 4.0W	73-D-475	20	20	10	55	80	1		
16N + 6.0E	73-D-476	10	20	10	45	40	1		
16N + 9.5E	73-D-477	25	20	15	85	60	1		
16N + 0.5W	73-D-478	30	10	10	75	35	1		
16N + 14E	73-D-479	8	15	10	20	35	BLD		
16N + 14.5E	73-D-480	10	30	10	45	40	BLD		
16N + 1.5E	73-D-481	20	40	15	45	70	BLD		
16N + 10.5E	73-D-482	20	15	10	75	50	BLD		
16N + 8.5E	73-D-483	20	25	10	75	50	BLD		
16N + 2.5E	73-D-484	9	10	5	45	20	BLD		
16N + 5.0E	73-D-485	40	30	30	145	200	2		
16N + 2.0E	73-D-486	40	20	10	75	60	2		
16N + 3.5E	73-D-487	70	60	40	210	440	2		
16N + 4.0E	73-D-488	30	25	10	45	50	1		
16N + 0.5E	73-D-489	20	20	10	75	50	1		
16N + 4.5E	73-D-490	40	35	15	115	220	1		
16N + 12.5E	73-D-491	30	10	15	55	30	BLD		
16N + 3.0E	73-D-492	20	10	10	55	45	BLD		
16N + 15.0E	73-D-493	10	55	10	45	65	BLD		
16N + 7.5E	73-D-494	30	20	15	60	70	1		
24N + 5.0W	73-D-495	10	15	10	75	35	BLD		
24N + 4.5W	73-D-496	50	25	50	135	55	2		
24N + 0.5W	73-D-497	60	30	30	135	60	2		

METHODS:

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Chief Chemist

37

652038

GEOTECHNICAL RESOURCES CONSULTANTS

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CHEMICAL LABORATORY

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007427/28 PROJECT No. EL. 7/68 - MACINTYRE

LAB. SHEET No. 1309/4 SAMPLE TYPE. SOIL PROF. DATE. 12th April, 1973

-80 FRACTION

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
24N + 2.0W	73-D-498	30	20	20	95	65	1		
24N + 1.5W	73-D-499	50	25	50	125	150	2		
24N + 4.0W	73-D-500	20	20	10	105	50	1		
24N + 3.5W	73-D-501	40	30	30	105	70	1		
00 + 9.5N	73-D-502	30	20	20	60	50	1		
00 + 6.5N	73-D-503	60	40	50	100	100	1		
00 + 22.0N	73-D-504	10	10	10	45	25	BLD		
00 + 21.0W	73-D-505	30	20	15	95	45	1		
00 + 22.69N	73-D-506	30	20	10	90	30	BLD		
24N + 1.0W	73-D-507	20	20	15	105	45	1		
24N + 2.5W	73-D-508	25	20	20	75	50	1		
16N + 5.5E	73-D-509	30	20	10	105	75	BLD		
00 + 18.5N	73-D-510	50	20	30	115	55	2		
00 + 13.5N	73-D-511	20	10	20	75	45	1		
00 + 10.0N	73-D-512	35	25	20	85	65	1		
00 + 11.0N	73-D-513	40	35	25	85	80	BLD		
00 + 7.5N	73-D-514	40	20	35	95	65	1		
00 + 20.0N	73-D-515	20	10	10	65	40	BLD		
00 + 22.5N	73-D-516	30	10	5	65	20	BLD		
00 + 7.0N	73-D-517	55	35	30	85	110	2		
00 + 6.0N	73-D-518	40	20	10	85	60	2		
00 + 8.5N	73-D-519	30	20	20	65	70	2		
24N + 3.0W	73-D-520	30	30	10	145	60	1		
00 + 21.5N	73-D-521	35	10	10	75	30	1		
00 + 4.5N	73-D-522	20	25	10	75	80	2		
00 + 5.0N	73-D-523	20	20	10	55	50	1		
00 + 12.0N	73-D-524	30	10	10	110	55	1		
00 + 14.0N	73-D-525	40	10	10	185	80	BLD		
00 + 4.17N	73-D-526	20	15	10	75	50	BLD		
00 + 20.5N	73-D-527	10	BLD	BLD	45	20	BLD		

METHODS:



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Ray W. [Signature]

Chief Chemist

38

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007428 PROJECT No. EL.7/68 - MACINTYRE

LAB. SHEET No. 1309/5 SAMPLE TYPE: SOIL PROF. DATE: 12th April, 1973
-80 FRACTION

SAMPLE No.	LAB. No.	Cu PPM	Ni PPM	Co PPM	Pb PPM	Zn PPM	Ag PPM		
00 + 16.0N	73-D-528	20	10	10	65	30	BLD		
00 + 17.0N	73-D-529	40	10	30	85	50	1		
00 + 5.5N	73-D-530	40	30	10	65	70	2		
00 + 13.0N	73-D-531	30	10	20	145	60	1		
00 + 9.0N	73-D-532	50	30	25	75	85	2		
00 + 18.0N	73-D-533	30	10	10	85	40	1		
00 + 10.5N	73-D-534	40	20	10	60	50	1		
00 + 16.5N	73-D-535	30	10	10	55	40	1		
00 + 7.5N	73-D-536	20	10	10	50	40	1		
00 + 8.0N	73-D-537	30	20	20	65	90	1		

METHODS:

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Chief Chemist

Ray W. M. [Signature]

039

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. DD0982 PROJECT No. EL 7-6B MACINTYRE

LAB. SHEET No. 1364/1 SAMPLE TYPE SOIL PROFILE DATE 23/6/73

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Co ppm	Ni ppm	Ag ppm		
16N/ 15.5E	73-F-469	15	40	265	10	65	1		
16.0E	73-F-470	10	40	155	10	35	1		
15.5E	73-F-471	10	25	105	10	30	BLD		
17.0E	73-F-472	20	40	115	10	55	1		
17.5E	73-F-473	10	45	40	5	15	BLD		
18.0E	73-F-474	5	35	50	10	20	1		
18.5E	73-F-475	5	35	45	5	20	1		
19.0E	73-F-476	10	30	40	10	25	BLD		
19.5E	73-F-477	10	60	40	10	20	1		
18N/ 0.5E	73-F-478	40	130	65	40	15	2		
1.0E	73-F-479	30	110	65	35	15	1		
1.5E	73-F-480	55	120	80	45	30	2		
2.0E	73-F-481	10	40	45	10	10	1		
2.5E	73-F-482	45	125	115	75	20	2		
3.0E	73-F-483	40	200	75	50	15	2		
3.5E	73-F-484	20	85	55	20	20	1		
4.0E	73-F-485	20	75	50	10	20	2		
4.5E	73-F-486	25	130	55	15	20	1		
5.0E	73-F-487	45	140	70	35	20	2		
5.5E	73-F-488	35	135	120	25	20	1		
6.0E	73-F-489	20	80	45	15	15	1		
6.5E	73-F-490	30	110	90	35	20	1		
7.0E		sample missing							
7.5E	73-F-491	25	80	50	20	20	1		
8.0E	73-F-492	30	75	85	25	25	1		
8.5E	73-F-493	30	160	100	45	25	1		
9.0E	73-F-494	15	50	40	10	20	1		
9.5E	73-F-495	30	90	60	10	20	BLD		
10.0E	73-F-496	10	75	160	30	20	1		

METHODS: Cu Pb Zn Ag Co Ni by GRC No. 1



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Chief Chemist

Ray W. [Signature]

040

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 000982 PROJECT No. EL 7-68: MACINTYRELAB. SHEET No. 1364/2 SAMPLE TYPE SOIL PROFILE DATE 23/6/73

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Co ppm	Ni ppm	Ag ppm
18N/ 10.5E	73-F-497	15	95	75	10	15	BLD
11.0E		sample missing					
11.5E	73-F-498	15	140	70	60	20	BLD
12.0E	73-F-499	30	170	80	50	25	1
12.5E	73-F-500	15	80	50	15	20	BLD
13.0E	73-F-501	10	90	50	5	5	BLD
13.5E	73-F-502	20	195	115	5	5	1
14.0E	73-F-503	10	75	50	10	15	BLD
14.5E	73-F-504	15	150	95	15	10	BLD
15.0E	73-F-505	15	90	90	35	30	1
15.5E	73-F-506	5	65	45	5	10	BLD
16.0E	73-F-507	5	70	35	5	10	BLD
16.5E	73-F-508	10	25	40	5	20	BLD
17.0E	73-F-509	10	25	65	10	45	BLD
17.5E	73-F-510	25	35	55	15	40	1
18.0E	73-F-511	15	30	45	15	30	BLD
22N/ 0.5E	73-F-512	20	70	45	10	20	1
1.0E	73-F-513	10	60	55	5	10	1
1.5E	73-F-514	20	105	70	5	10	1
2.0E	73-F-515	35	220	70	35	10	1
2.5E	73-F-516	50	90	95	25	30	2
3.0E	73-F-517	35	210	90	10	15	1
3.5E	73-F-518	35	155	65	60	20	1
4.0E	73-F-519	55	130	70	60	25	1
4.5E	73-F-520	50	210	95	125	15	1
5.0E	73-F-521	20	115	55	20	20	1
5.5E	73-F-522	20	80	70	10	15	1
6.0E	73-F-523	25	150	65	25	15	1
6.5E	73-F-524	25	130	55	30	10	1

METHODS:



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Chief Chemist

041

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 000982 PROJECT No.: EL 7-68: MACINTYRE

LAB. SHEET No.: 1364/3 SAMPLE TYPE: SOIL PROFILE DATE: 23/6/73

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Co ppm	Ni ppm	Ag ppm		
22N/ 7.0E	73-F-525	35	115	50	25	15	1		
7.5E	73-F-526	30	105	60	20	20	1		
8.0E	73-F-527	20	90	55	20	15	1		
8.5E	73-F-528	20	85	50	15	15	1		
9.0E	73-F-529	10	80	45	15	15	BLD		
9.5E	73-F-530	25	85	105	20	15	1		
10.0E	73-F-531	35	135	80	25	20	1		
10.5E	73-F-532	35	125	80	40	25	1		
11.0E	73-F-533	50	95	90	35	25	1		
11.5E	73-F-534	30	80	80	30	30	1		
12.0E	73-F-535	30	80	90	25	25	1		
12.5E	73-F-536	15	85	125	30	35	BLD		
13.0E	73-F-537	15	45	90	15	25	1		
13.5E	73-F-538	10	70	50	20	20	BLD		
14.0E	73-F-539	10	35	40	10	15	1		
14.5E	73-F-540	30	185	490	40	80	1		
15.0E	73-F-541	15	75	80	20	20	2		
15.5E	73-F-542	15	50	55	20	25	1		
16.0E	73-F-543	20	50	55	15	25	1		
16.5E	73-F-544	15	80	75	15	20	1		
17.0E	73-F-545	10	65	45	15	25	1		
17.5E	73-F-546	5	80	50	10	15	1		
18.0E	73-F-547	15	40	65	10	30	1		
18.5E	73-F-563	10	30	50	10	25	BLD		
28N/ 0.5E	73-F-548	50	335	85	95	20	1		
1.0E	73-F-549	50	175	70	90	25	1		
1.5E	73-F-550	20	110	40	35	15	2		
2.0E	73-F-551	20	75	65	30	25	1		
2.5E	73-F-552	30	100	65	60	25	1		
3.0E	73-F-553	20	110	60	35	20	2		

METHODS:



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Chief Chemist

Ray W. Henderson

042

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 000982 PROJECT No. EL 7-68: MACINTYRE

LAB. SHEET No. 1364/4 SAMPLE TYPE: SOIL PROFILE DATE: 23/6/73

SAMPLE No.	LAB. No.	Cu	Pb	Zn	Co	Ni	Ag		
		ppm	ppm	ppm	ppm	ppm	ppm		
28N/ 3.5E	73-F-554	10	55	65	10	15	1		
4.0E	73-F-555	20	60	60	20	25	1		
4.5E	73-F-556	10	45	55	5	15	1		
5.0E	73-F-557	30	55	115	20	20	1		
5.5E	73-F-558	5	55	50	5	10	BLD		
6.0E	73-F-559	15	80	40	15	5	BLD		
6.5E	73-F-560	15	70	50	15	10	1		
7.0E	73-F-561	20	95	55	15	10	1		
7.5E	73-F-562	10	65	45	15	10	1		

METHODS:



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Ray W. [Signature]

Chief Chemist

J43

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: DD0978 PROJECT No.: EL7/68 MACINTYRE

LAB. SHEET No.: 1359/1 SAMPLE TYPE: OIL PROFILE DATE: 14/6/73

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm
30N 0.5E	73-F-193	15	10	BLD	150	50	BLD
30N 1.0E	73-F-194	10	20	5	50	50	BLD
30N 1.5E	73-F-195	20	20	40	90	60	BLD
30N 2.0E	73-F-196	10	20	5	40	40	BLD
30N 2.5E	73-F-197	10	10	5	140	60	BLD
30N 3.0E	73-F-198	20	20	5	70	50	BLD
30N 3.5E	73-F-199	10	20	5	80	80	BLD
30N 4.0E	73-F-200	5	10	BLD	70	30	BLD
30N 4.5E	73-F-201	2	BLD	BLD	60	20	BLD
30N 5.0E	73-F-202	10	5	BLD	55	15	BLD
30N 5.5E	73-F-203	BLD	10	5	50	30	BLD
30N 6.0E	73-F-204	5	15	5	55	50	BLD
30N 6.5E	73-F-205	2	BLD	BLD	45	15	BLD
30N 7.0E	73-F-206	10	15	5	40	30	1
26N 00	73-F-207	30	45	25	125	110	1
26N 0.5E	73-F-208	20	20	30	185	55	1
26N 1.0E	73-F-209	20	15	15	110	40	BLD
26N 1.5E	73-F-210	30	10	5	90	60	BLD
26N 2.0E	73-F-211	20	5	10	120	30	BLD
26N 2.5E	73-F-212	55	15	110	245	55	1
26N 3.0E	73-F-213	40	15	115	230	40	1
26N 3.5E	73-F-214	15	10	10	90	35	1
26N 4.0E	73-F-215	20	10	10	80	35	1
26N 4.5E	73-F-216	10	BLD	BLD	105	20	BLD
26N 5.0E	73-F-217	30	20	10	90	65	1
26N 5.5E	73-F-218	20	20	10	60	50	1
26N 6.0E	73-F-219	10	10	10	65	40	1
26N 6.5E	73-F-220	30	20	10	115	70	1
26N 7.0E	73-F-221	40	10	5	100	30	BLD
26N 7.5E	73-F-222	30	10	15	115	50	BLD

METHODS: Cu Ni Co Pb Zn Ag by GRC No. 1
BLD = Below limit of Detection



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Chief Chemist

Ray W. G. [Signature]

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 00978/79 PROJECT No.: EL7/68 MACINTYRE

LAB. SHEET No.: 1359/2 SAMPLE TYPE: SOIL PROFILE DATE: 14/6/73

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
26N 8.0E	73-F-223	55	20	110	295	90	1		
26N 8.5E	73-F-224	20	15	25	165	65	BLD		
26N 9.0E	73-F-225	30	10	10	160	40	BLD		
26N 9.5E	73-F-226	45	20	55	185	70	1		
26N 10.0E	73-F-227	30	20	50	195	65	1		
26N 10.5E	73-F-228	50	10	70	235	80	1		
26N 11.0E	73-F-229	35	15	10	115	75	1		
26N 11.5E	73-F-230	40	10	5	155	60	1		
26N 12.0E	73-F-231	30	15	15	100	60	2		
26N 12.5E	73-F-232	30	5	BLD	225	60	BLD		
26N 13.0E	73-F-233	20	10	50	255	50	BLD		
26N 13.5E	73-F-234	25	90	10	55	105	BLD		
26N 14.0E	73-F-235	10	10	5	60	30	BLD		
28N 14.0E	73-F-236	20	15	15	100	60	1		
28N 13.5E	73-F-237	20	10	5	75	40	1		
28N 13.0E	73-F-238	10	10	5	75	30	BLD		
28N 12.5E	73-F-239	20	10	BLD	150	40	BLD		
28N 12.0E	73-F-240	50	10	5	80	30	1		
28N 11.5E	73-F-241	5	10	5	40	20	BLD		
28N 11.0E	73-F-242	30	10	5	105	50	BLD		
28N 10.5E	73-F-243	10	BLD	BLD	85	25	BLD		
28N 10.0E	73-F-244	10	BLD	BLD	45	20	BLD		
28N 9.5E	73-F-245	10	BLD	BLD	190	50	BLD		
28N 9.0E	73-F-246	15	5	BLD	100	35	BLD		
28N 8.5E	73-F-247	20	10	5	120	35	BLD		
28N 8.0E	73-F-248	35	15	10	130	55	1		

METHODS:



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Chief Chemist

Ray W. Zedler

045

652046

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007364 PROJECT No. EL.7/68 - McINTYRE RECONN. & GRID

LAB. SHEET No. 1332/1 SAMPLE TYPE: ROCK DATE: 17th May, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
MC 1	73-E-742	5	30	5	40	75	1		
MC 2	73-E-743	20	40	15	35	125	1		
MC 3	73-E-744	5	55	30	15	120	1		
MC 4	73-E-745	5	40	20	25	110	1		
MC 5	73-E-746	40	100	25	20	155	1		
MC 6	73-E-747	50	90	20	45	135	1		
MC 7	73-E-748	30	80	10	55	90	1		
MC 8	73-E-749	65	140	45	80	190	1		
MC 9	73-E-750	35	120	30	35	150	1		
MC 10	73-E-751	50	115	20	105	200	1		
MC 11	73-E-752	40	80	20	115	110	1		
MC 12	73-E-753	45	20	15	45	220	BLD		
MC 14	73-E-754	35	70	20	35	130	1		
MC 15	73-E-755	40	80	20	25	100	1		
MC 16	73-E-756	20	20	25	15	125	BLD		
MC 17	73-E-757	40	80	30	35	125	1		
MC 18	73-E-758	50	60	15	75	100	1		
MC 19	73-E-759	70	70	30	40	120	1		
MC 20	73-E-760	10	10	10	45	45	1		
MC 23	73-E-761	30	25	15	15	100	BLD		
MC 24	73-E-762	40	30	15	10	80	1		
MC 25	73-E-763	50	40	10	45	70	1		
MC 26	73-E-764	50	50	30	75	145	1		
MC 27	73-E-765	40	50	25	70	100	1		
MC 28	73-E-766	20	40	20	35	90	1		
MC 29	73-E-767	45	65	20	50	130	1		
MC 30	73-E-768	50	50	20	45	90	1		
MC 31	73-E-769	40	40	25	50	120	BLD		
MC 32	73-E-770	10	20	20	30	90	BLD		
MC 34	73-E-771	BLD	15	10	15	80	BLD		

METHODS:

Cu, Ni, Co, Pb, Zn, Ag by GRC NO. 1

BLD = Below limit of detection



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formed in accordance with its
terms of registration.

for Chief Chemist

046

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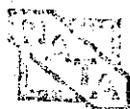
GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007364/65 PROJECT No. EL.7/68 - McINTYRE RECONN. & GRID

LAB. SHEET No. 1332/2 SAMPLE TYPE: ROCK DATE: 17th May, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
MC 35	73-E-772	10	20	15	40	95	BLD		
MC 36	73-E-773	20	25	15	40	135	BLD		
MC 37	73-E-774	60	60	30	65	200	1		
MC 38	73-E-775	35	80	30	15	110	1		
MC 39	73-E-776	2	10	10	295	365	BLD		
MC 40	73-E-777	15	20	10	290	730	1		
MC 41	73-E-778	70	70	30	170	325	1		
MC 42	73-E-779	10	90	25	670	150	1		
MC 43	73-E-780	35	80	20	35	110	1		
MC 44	73-E-781	20	40	35	55	250	1		
MC 45	73-E-782	30	40	40	55	140	1		
MC 46	73-E-783	5	20	15	25	90	BLD		
MC 47	73-E-784	65	70	30	55	130	1		
MC 48	73-E-785	30	35	15	45	70	1		
MC 49	73-E-786	45	105	20	30	120	1		
MC 50	73-E-787	50	100	15	35	120	1		
MC 51	73-E-788	BLD	20	20	15	140	1		
MC 52	73-E-789	10	15	10	15	35	BLD		
MC 53	73-E-790	60	90	25	125	155	1		
MC 54	73-E-791	2	30	40	25	310	1		
MC 55	73-E-792	60	105	30	35	180	1		
MC 56	73-E-793	5	20	20	20	130	1		
MC 57	73-E-794	BLD	40	30	20	270	2		
MC 58	73-E-795	40	90	30	25	100	1		
MC 59	73-E-796	20	50	20	25	100	1		
MC 60	73-E-797	30	110	40	35	180	1		
MC 61	73-E-798	50	120	40	25	175	1		
MC 62	73-E-799	110	140	40	25	150	1		
MC 63	73-E-800	5	20	20	15	110	BLD		
MC A	73-E-801	45	170	55	75	260	1		

METHODS:



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R. W. Houghton
for Chief Chemist

147

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007365 PROJECT No. EL. 7/68 - McINTYRE RECONN. & GRID
 LAB. SHEET No. 1332/3 SAMPLE TYPE: ROCK DATE: 17th May, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
MC B	73-E-802	30	105	30	20	170	1		
MC D	73-E-803	25	130	30	25	125	1		
MC E	73-E-804	55	130	30	30	110	1		
MC F	73-E-805	35	150	30	50	210	1		
MC G	73-E-806	35	80	30	30	220	1		
MC H	73-E-807	70	150	35	45	280	1		
MC I	73-E-808	20	70	85	65	380	1		
MC J	73-E-809	60	120	30	50	220	1		
MC K	73-E-810	60	145	50	45	190	1		
MC L	73-E-811	20	90	15	45	110	BLD		
MC M	73-E-812	50	120	30	50	180	1		
MC N	73-E-813	70	580	155	135	670	1		
MC O	73-E-814	80	140	30	65	175	1		
MC P	73-E-815	35	120	20	40	160	1		
MC Q	73-E-816	60	115	70	90	200	2		
MC R	73-E-817	65	150	50	80	265	1		
MC S	73-E-818	10	50	30	50	145	1		
MC T	73-E-819	50	100	30	20	145	1		
MC U	73-E-820	30	30	25	50	140	1		
MC V	73-E-821	40	105	20	55	120	1		
MC W	73-E-822	25	90	20	75	100	1		
MC X	73-E-823	BLD	10	5	15	10	BLD		
MC Y	73-E-824	20	110	30	45	140	1		
MC A1	73-E-825	60	115	30	25	160	1		
MC B1	73-E-826	50	90	30	35	160	1		
MC C1	73-E-827	35	80	40	15	340	2		
MC D1	73-E-828	45	80	25	55	150	1		
MC E1	73-E-829	40	80	25	40	170	1		
MC F1	73-E-830	2	30	15	15	160	BLD		
MC G1	73-E-831	15	100	20	35	120	1		

METHODS:



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 Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007365/66 PROJECT No. CL.7/68 - McINTYRE RECONN. & GRID

LAB. SHEET No. 1332/4 SAMPLE TYPE: ROCK DATE: 17th May, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
MC H1	73-E-832	15	100	20	50	115	1		
MC I1	73-E-833	15	85	10	40	85	1		
MC J1	73-E-834	60	135	20	70	165	1		
MC L1	73-E-835	70	160	30	35	170	1		
MC M1	73-E-836	60	150	40	55	145	1		
MC N1	73-E-837	60	120	40	55	215	1		
MC O1	73-E-838	55	250	85	65	340	1		
MC P1	73-E-839	40	90	45	70	150	1		
MC Q1	73-E-840	50	70	50	80	190	1		
MC R1	73-E-841	40	60	50	40	110	1		
MC S1	73-E-842	20	100	30	20	90	1		
MC T1	73-E-843	30	175	40	35	230	1		
MC U1	73-E-844	15	90	35	55	150	1		
MC V1	73-E-845	50	125	40	30	180	1		
MC W1	73-E-846	55	150	40	35	200	1		
MC X1	73-E-847	30	70	25	65	130	1		
MC Y1	73-E-848	50	100	50	30	140	1		
MC A2	73-E-849	70	65	35	35	110	1		
MC B2	73-E-850	2	15	15	15	80	1		
MC C2	73-E-851	65	15	10	110	90	1		
MC D2	73-E-852	45	60	25	30	150	1		
MC E2	73-E-853	80	40	30	155	90	2		
MC F2	73-E-854	2	20	15	20	90	BLD		
MC G2	73-E-855	110	50	30	35	160	1		
MC H2	73-E-856	45	60	30	240	110	1		
MC I2	73-E-857	40	60	25	25	160	1		
MC J2	73-E-858	10	20	35	60	140	1		
MC K2	73-E-859	85	145	50	45	280	1		
MC M2	73-E-860	70	130	40	100	230	1		
MC N2	73-E-861	30	140	50	25	150	1		

METHODS:



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Chief Chemist

49

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007366/67 PROJECT No. EL.7/68 - McINTYRE RECONN. & GRID

LAB. SHEET No. 1332/5 SAMPLE TYPE: ROCK DATE: 17th May, 1973

SAMPLE No.	LAB. No.	CU ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
MC O2	73-E-862	60	100	25	45	130	1		
MC P2	73-E-863	15	25	30	25	60	1		
MC Q2	73-E-864	55	130	75	65	175	1		
MC R2	73-E-865	45	110	110	80	200	1		
MC S2	73-E-866	40	95	30	55	115	1		
MC T2	73-E-867	50	140	50	35	180	1		
MC U2	73-E-868	40	140	40	20	210	1		
MC V2	73-E-869	80	260	70	45	360	1		
MC X2	73-E-870	SAMPLE MISSING							
MX Y2	73-E-871	20	60	70	35	90	1		
MC Z2	73-E-872	25	200	90	40	240	1		
MC A3	73-E-873	35	710	275	45	1020	1		
MC B3	73-E-874	30	145	50	40	180	1		
MC C3	73-E-875	80	130	45	20	185	1		
MC D3	73-E-876	25	110	35	30	130	1		
MC E3	73-E-877	50	100	30	30	160	1		
MC F3	73-E-878	10	60	25	45	210	1		
MC G3	73-E-879	10	100	30	75	240	1		
MC H3	73-E-880	30	45	40	25	200	1		
MC I3	73-E-881	60	90	30	85	120	1		
MC J3	73-E-882	40	55	20	70	110	1		
MC K3	73-E-883	40	70	30	25	95	1		
MC L3	73-E-884	40	80	40	60	160	1		
MC M3	73-E-885	50	110	45	45	150	1		
MC N3	73-E-886	75	70	20	35	170	1		
MC O3	73-E-887	40	90	30	15	140	1		
MC P3	73-E-888	35	45	15	235	135	1		
MC Q3	73-E-889	60	125	35	55	180	2		
MC *	73-E-890	60	65	20	45	60	1		
MC * 1	73-E-891	5	90	60	175	240	2		

METHODS:



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[Handwritten Signature]
Chief Chemist

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007367 PROJECT No. EL. 7/68 - McINTYRE RECONN. & GRID

LAB. SHEET No. 1332/6 SAMPLE TYPE: ROCK DATE: 17th May, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm		
MC *2	73-E-892	50	115	50	95	180	1		
MC *3	73-E-893	40	75	20	45	125	1		
MC *4	73-E-894	15	60	20	55	75	1		
MC *5	73-E-895	55	110	30	50	160	1		
MC *6	73-E-896	75	130	50	65	210	1		
MC *7	73-E-897	60	160	40	75	250	1		
MC *8	73-E-898	55	70	10	45	50	1		
MC *9	73-E-899	100	65	40	30	85	1		
MC *10	73-E-900	80	90	55	35	250	1		
MC *11	73-E-901	20	90	30	40	120	1		
MC *12	73-E-902	60	85	40	70	140	1		
MC *13	73-E-903	180	240	65	30	400	2		
MC *14	73-E-904	20	40	40	30	475	1		

METHODS:

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[Signature]
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051

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LABORATORY REPORT

FIELD SHEET No. 003107 CLIENT: EL.7/68 - HOWARD GRID

LAB. SHEET No. 1484/1 SAMPLE TYPE: ROCK DATE: 2nd November, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cd ppm	Cr ppm
H1	73-K-660	10	40	20	45	70	1	1	10
H2	73-K-661	15	55	25	55	115	1	1	10
H3	73-K-662	20	45	15	30	80	1	1	5
H4	73-K-663	10	35	15	35	65	1	1	5
H5	73-K-664	15	60	15	40	65	1	1	5
H7	73-K-665	10	35	5	55	75	1	1	5
H8	73-K-666	10	25	10	30	60	BLD	BLD	<5
H9	73-K-667	5	10	5	10	40	1	BLD	5
H10	73-K-668	235	25	10	245	495	2	2	10
H11	73-K-669	60	65	15	55	145	BLD	1	20
H12	73-K-670	5	15	5	20	20	1	BLD	20
H13	73-K-671	40	35	15	40	70	1	1	10
H14	73-K-672	35	40	20	30	80	BLD	1	10
H15	73-K-673	20	45	15	25	100	1	1	20
H16	73-K-674	95	45	20	40	80	1	1	5
H17	73-K-675	60	50	15	15	85	BLD	1	10
H18	73-K-676	5	20	5	20	35	BLD	BLD	10
H19	73-K-677	15	50	10	30	70	BLD	1	5
H20	73-K-678	15	30	5	305	90	BLD	BLD	35
H21	73-K-679	90	40	10	65	70	BLD	1	5
H22	73-K-680	35	75	25	20	110	BLD	BLD	5
H23	73-K-681	65	35	15	135	75	1	1	5
H24	73-K-682	45	95	15	35	115	BLD	1	10
H25	73-K-683	30	70	15	30	75	1	1	5
H26	73-K-684	50	95	20	25	110	BLD	1	10
H27	73-K-685	100	75	15	20	90	BLD	1	10
H28	73-K-686	25	95	20	30	120	BLD	1	10
H29	73-K-687	25	80	25	25	105	1	1	10
H30	73-K-688	45	70	20	20	95	1	1	10
H31	73-K-689	130	90	25	15	105	1	BLD	40

METHODS: Cu Ni Co Pb Zn Ag Cd Cr by Method 1



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Chief Chemist

052

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LABORATORY REPORT

FIELD SHEET No. 003107 CLIENT, EL.7/68 - HOWARD GRID

LAB. SHEET No. 1484/2 SAMPLE TYPE: ROCK DATE: 2nd November, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cd ppm	Cr ppm
H32	73-K-690	55	55	35	20	95	BLD	1	20
H33	73-K-691	10	50	20	30	50	1	1	10
H36	73-K-692	10	25	10	35	60	BLD	BLD	5
H37	73-K-693	10	105	10	10	45	BLD	BLD	115
H38	73-K-694	30	70	15	50	70	1	1	5
H41	73-K-695	<5	20	5	30	5	BLD	BLD	20
H42	73-K-696	40	25	5	60	10	1	BLD	25
H43	73-K-697	15	40	5	30	45	BLD	1	10
H44	73-K-698	30	70	20	20	75	BLD	1	15
H45	73-K-699	75	55	25	80	95	BLD	1	25
H46	73-K-700	40	50	15	40	55	BLD	1	25
H47	73-K-701	25	60	10	20	65	BLD	1	15

METHODS:



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Chief Chemist

R. W. Houghton

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LABORATORY REPORT

FIELD SHEET No. 003105 CLIENT: EL. 7/68 - HOWARD GRID

LAB. SHEET No. 1483/1 SAMPLE TYPE: SOIL DATE: 1st November, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cd ppm	Cr ppm
H185+0.5W	73-K-586	25	15	10	25	50	BLD	1	20
H185+1.0W	73-K-587	15	10	5	20	25	BLD	1	15
H185+1.5W	73-K-588	20	15	5	30	65	BLD	1	20
H185+2.0W	73-K-589	10	10	5	15	45	BLD	BLD	10
H185+2.5W	73-K-590	10	15	5	20	35	BLD	BLD	10
H185+3.0W	73-K-591	BLD	5	BLD	10	30	BLD	BLD	5
H185+5.0W	73-K-592	5	5	5	290	15	BLD	BLD	20
H185+5.5W	73-K-593	5	5	BLD	45	25	BLD	BLD	10
H185+6.0W	73-K-594	5	5	BLD	15	25	BLD	BLD	10
H185+7.0W	73-K-595	5	5	5	10	15	BLD	BLD	10
H185+00	73-K-596	10	5	BLD	20	15	BLD	BLD	10
H185+0.5E	73-K-597	15	10	5	10	30	1	1	15
H185+1.0E	73-K-598	15	5	BLD	10	15	1	1	10
H185+1.5E	73-K-599	15	10	BLD	35	25	1	BLD	10
H185+2.0E	73-K-600	10	15	BLD	10	20	BLD	BLD	5
H16S+00	73-K-601	30	20	5	20	20	1	BLD	5
H16S+0.5W	73-K-602	5	20	10	15	40	1	BLD	BLD
H16S+1.0W	73-K-603	10	10	5	50	195	1	2	5
H16S+1.5W	73-K-604	15	30	5	20	70	1	1	5
H16S+2.0W	73-K-605	5	5	BLD	15	15	BLD	BLD	5
H16S+2.5W	73-K-606	20	15	5	15	35	1	1	15
H16S+3.0W	73-K-607	15	10	BLD	15	15	BLD	1	10
H16S+3.5W	73-K-608	10	5	5	25	10	BLD	BLD	10
H16S+4.0W	73-K-609	10	5	5	40	25	BLD	BLD	15
H16S+4.5W	73-K-610	BLD	BLD	BLD	BLD	5	BLD	BLD	5
H16S+5.0W	73-K-611	BLD	5	BLD	10	10	BLD	BLD	5
H16S+5.5W	73-K-612	BLD	5	BLD	20	5	BLD	BLD	5
H16S+6.0W	73-K-613	BLD	5	BLD	5	5	BLD	BLD	5
H16S+6.5W	73-K-614	5	5	10	10	10	BLD	BLD	10
H16S+7.0W	73-K-615	BLD	5	5	5	10	BLD	BLD	15

METHODS: Cu Ni Co Pb Zn Ag Cd Cr by Method 1



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for Chief Chemist

R. W. Longman

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LABORATORY REPORT

FIELD SHEET No. 003105/6 CLIENT: EL. 7/68 - HOWARD GRID

LAB. SHEET No. 1483/2 SAMPLE TYPE: SOIL DATE: 1st November, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cd ppm	Cr ppm
H16S+0.5E	73-K-616	15	10	5	20	20	BLD	1	15
H16S+1.0E	73-K-617	5	5	5	5	20	BLD	BLD	5
H16S+1.5E	73-K-618	BLD	5	BLD	20	15	BLD	BLD	10
H16S+2.0E	73-K-619	BLD	BLD	BLD	30	15	BLD	BLD	10
H14S+1.0W	73-K-620	20	20	5	15	40	1	1	15
H14S+1.5W	73-K-621	10	20	10	25	45	BLD	1	20
H14S+2.0W	73-K-622	25	30	10	30	65	BLD	1	25
H14S+2.5W	73-K-623	15	10	5	20	15	1	1	10
H14S+3.0W	73-K-624	15	15	5	25	25	BLD	BLD	15
H14S+3.5W	73-K-625	40	15	10	35	30	BLD	1	10
H14S+4.0W	73-K-626	85	10	5	40	15	BLD	BLD	10
H14S+4.5W	73-K-627	5	5	BLD	5	5	BLD	BLD	5
H14S+5.0W	73-K-628	BLD	BLD	5	5	10	BLD	BLD	5
H14S+5.5W	73-K-629	5	5	5	10	10	BLD	BLD	5
H14S+6.0W	73-K-630	BLD	5	5	5	5	BLD	BLD	5
H14S+6.5W	73-K-631	BLD	5	BLD	5	5	BLD	BLD	BLD
H14S+7.0W	73-K-632	BLD	5	BLD	20	5	BLD	BLD	BLD
H14S+1.0E	73-K-633	5	5	5	10	15	BLD	BLD	5
H14S+1.5E	73-K-634	5	BLD	5	15	15	BLD	BLD	BLD
H14S+2.0E	73-K-635	5	10	5	35	20	BLD	BLD	5
H12S+2W	73-K-636	30	20	10	20	45	BLD	1	10
H12S+2.5W	73-K-637	40	30	15	35	60	1	1	15
H12S+3.0W	73-K-638	20	20	10	10	40	BLD	1	5
H12S+3.5W	73-K-639	50	25	10	15	30	BLD	1	10
H12S+4.0W	73-K-640	20	20	5	80	25	1	1	10
H12S+4.5W	73-K-641	10	10	5	30	15	BLD	BLD	15
H12S+5.5W	73-K-642	5	5	5	10	10	BLD	BLD	BLD
H12S+6.0W	73-K-643	BLD	5	5	10	5	BLD	BLD	10
H12S+6.5W	73-K-644	5	5	5	15	10	BLD	BLD	BLD
H12S+7.0W	73-K-645	10	BLD	5	15	10	BLD	BLD	BLD

METHODS:



This laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Lot Chief Chemist *R. Kingstone*

055

GEOPHOTO RESOURCES CONSULTANTS
CONSULTING ANALYSTS



652056
CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 4899
Telex AA41860

LABORATORY REPORT

FIELD SHEET No. 003106

CLIENT: EL.7/68 - HOWARD GRID

LAB. SHEET No. 1483/3

SAMPLE TYPE: SOIL

DATE: 1st November, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Cd ppm	Cr ppm
H12S+1.0E	73-K-646	5	5	BLD	10	25	BLD	BLD	BLD
H12S+1.5E	73-K-647	5	5	5	10	5	BLD	BLD	5
H12S+2.0E	73-K-648	5	5	5	10	10	BLD	BLD	10
H105-1.5W	73-K-649	BLD	5	5	5	10	BLD	BLD	15
H105-2.0W	73-K-650	5	5	BLD	10	20	BLD	BLD	15
H105-2.5W	73-K-651	20	10	5	15	25	BLD	BLD	15
H105-3.0W	73-K-652	35	25	10	10	55	BLD	1	25
H105-3.5W	73-K-653	75	10	10	20	45	BLD	2	35
H105-4.0W	73-K-654	15	20	5	15	35	BLD	BLD	20
H105-4.5W	73-K-655	40	15	5	35	25	1	1	25
H105-5.0W	73-K-656	10	5	BLD	5	10	BLD	BLD	10
H105-7.0W	73-K-657	BLD	5	5	5	BLD	BLD	BLD	10
H105-0.5E	73-K-658	5	5	BLD	BLD	15	BLD	BLD	20
H105-1.0E	73-K-659	BLD	5	BLD	10	10	BLD	BLD	10

METHODS:



This Laboratory is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

for Chief Chemist

R. W. H. H. H.

U56

652057

Geophoto Grid - Soil Geochemistry (Lead)

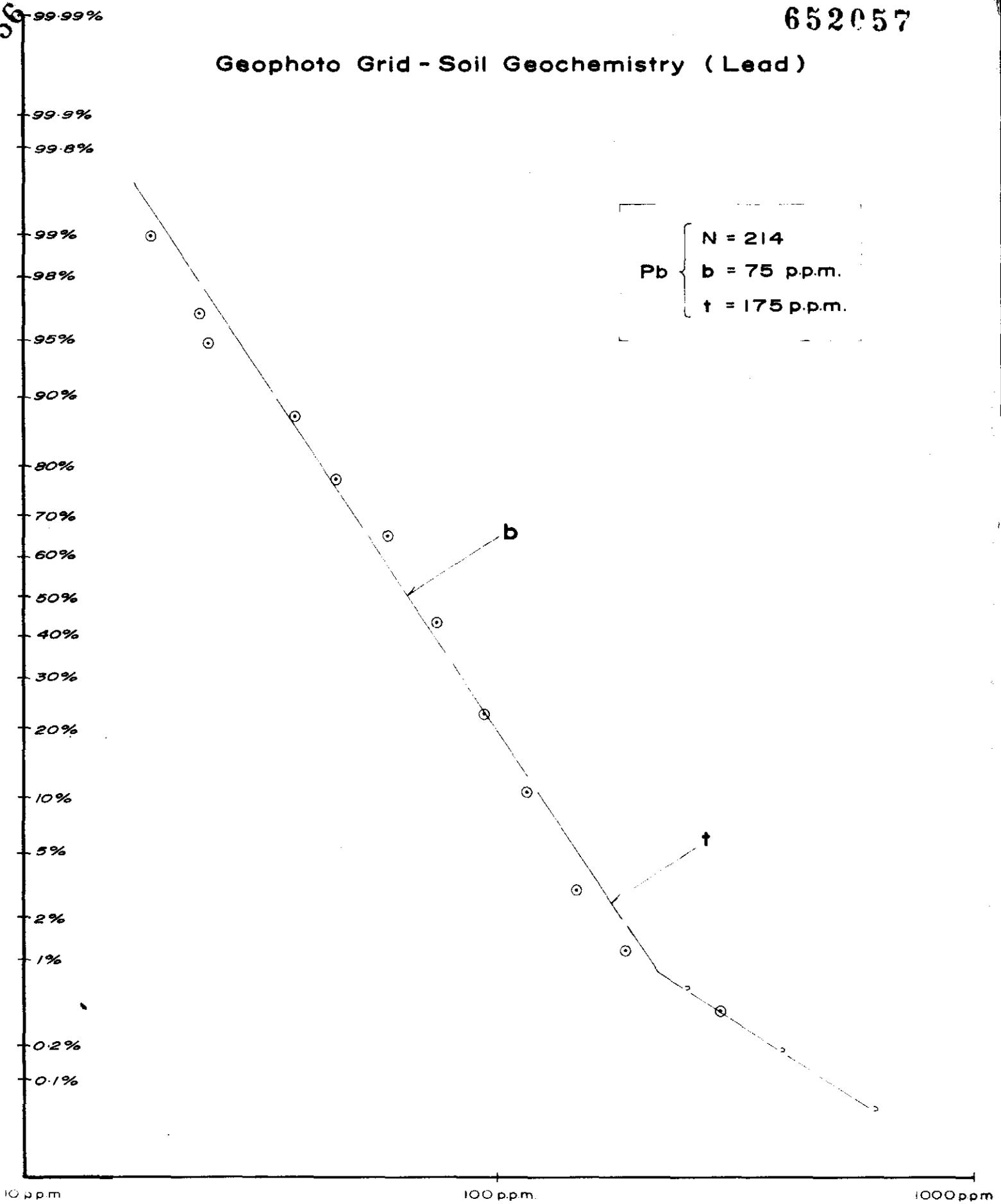


Fig 1.

Geophoto Grid - Soil Geochemistry (Zinc)

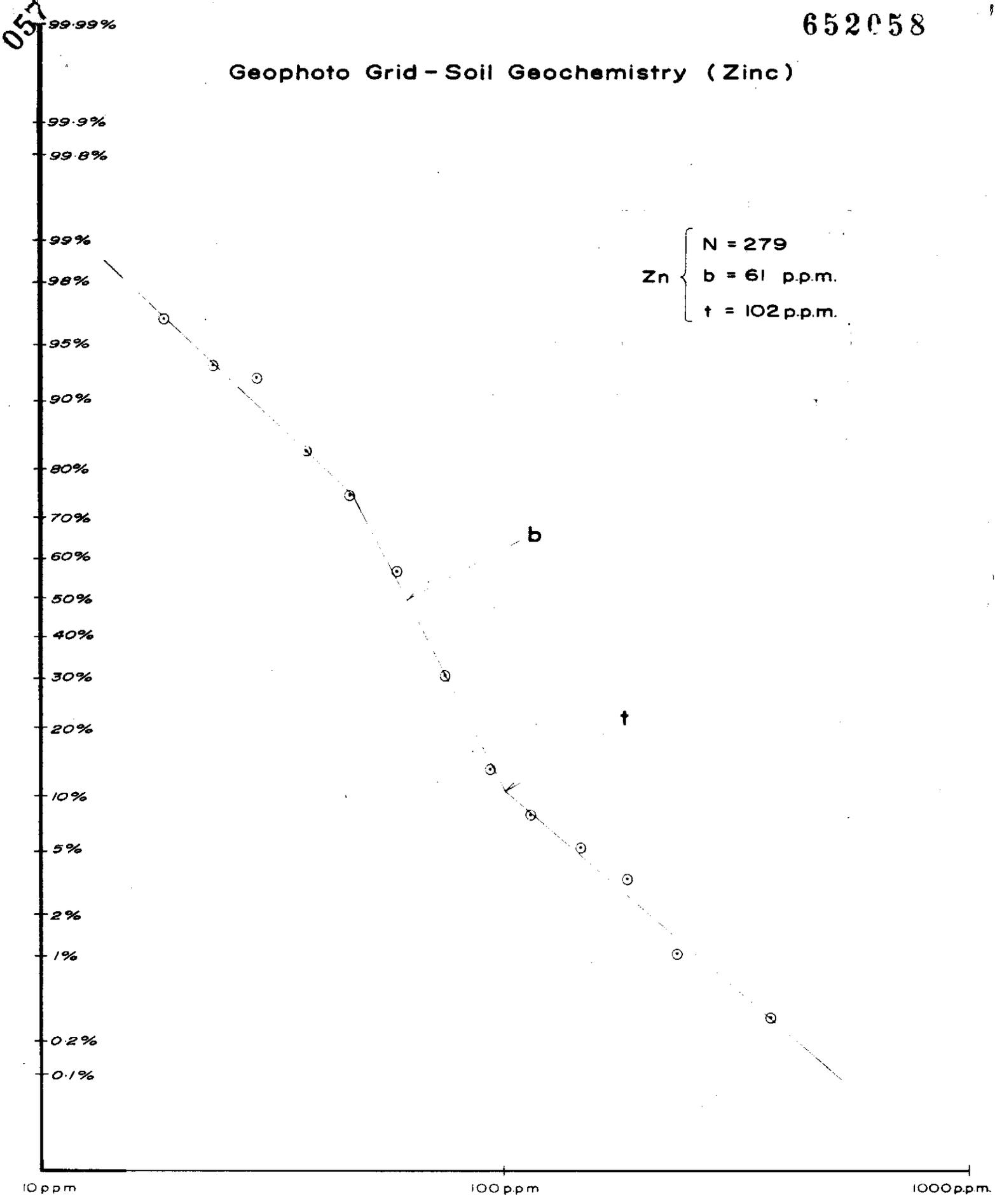
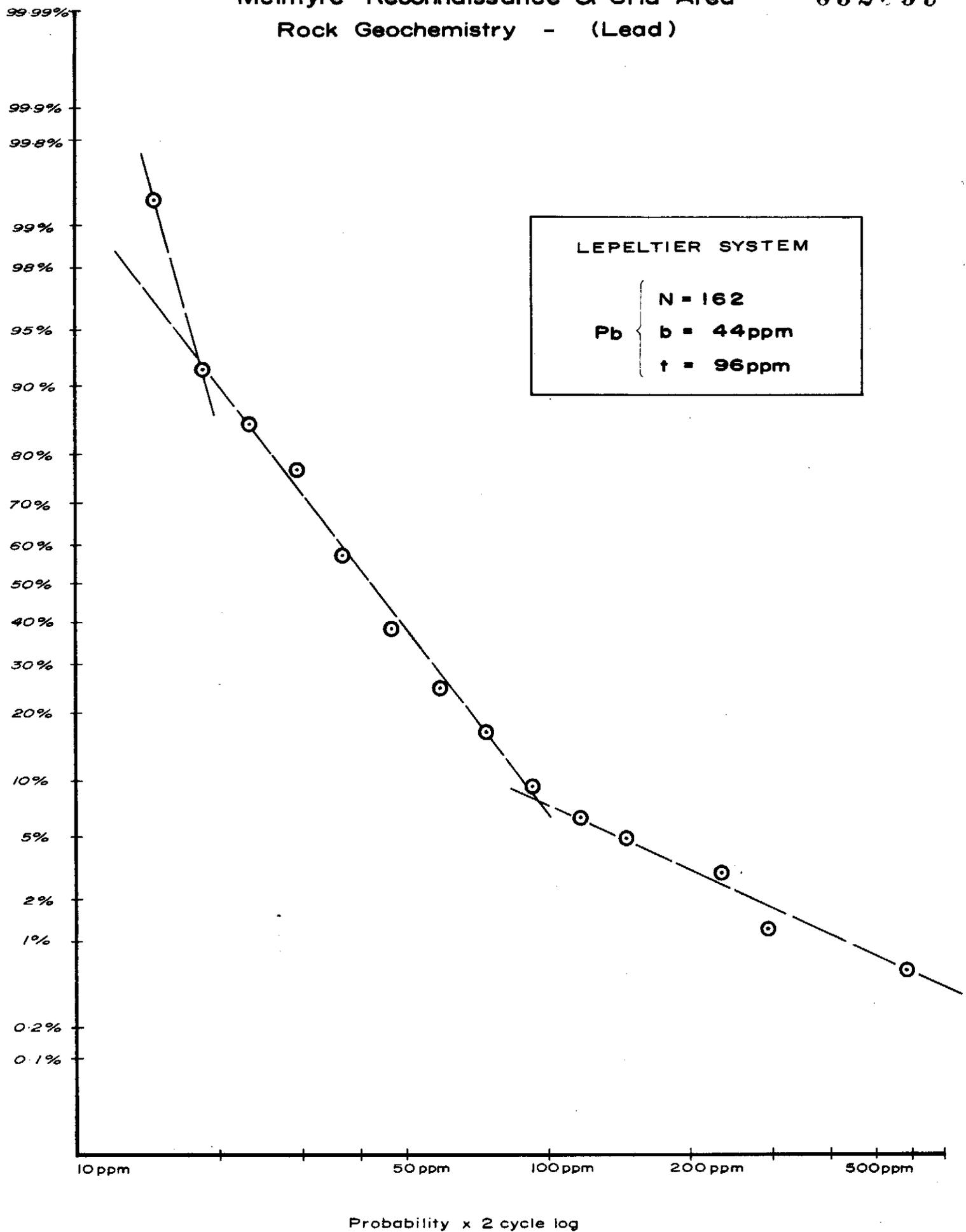


Fig. 2

U58

McIntyre Reconnaissance & Grid Area Rock Geochemistry - (Lead)

652059

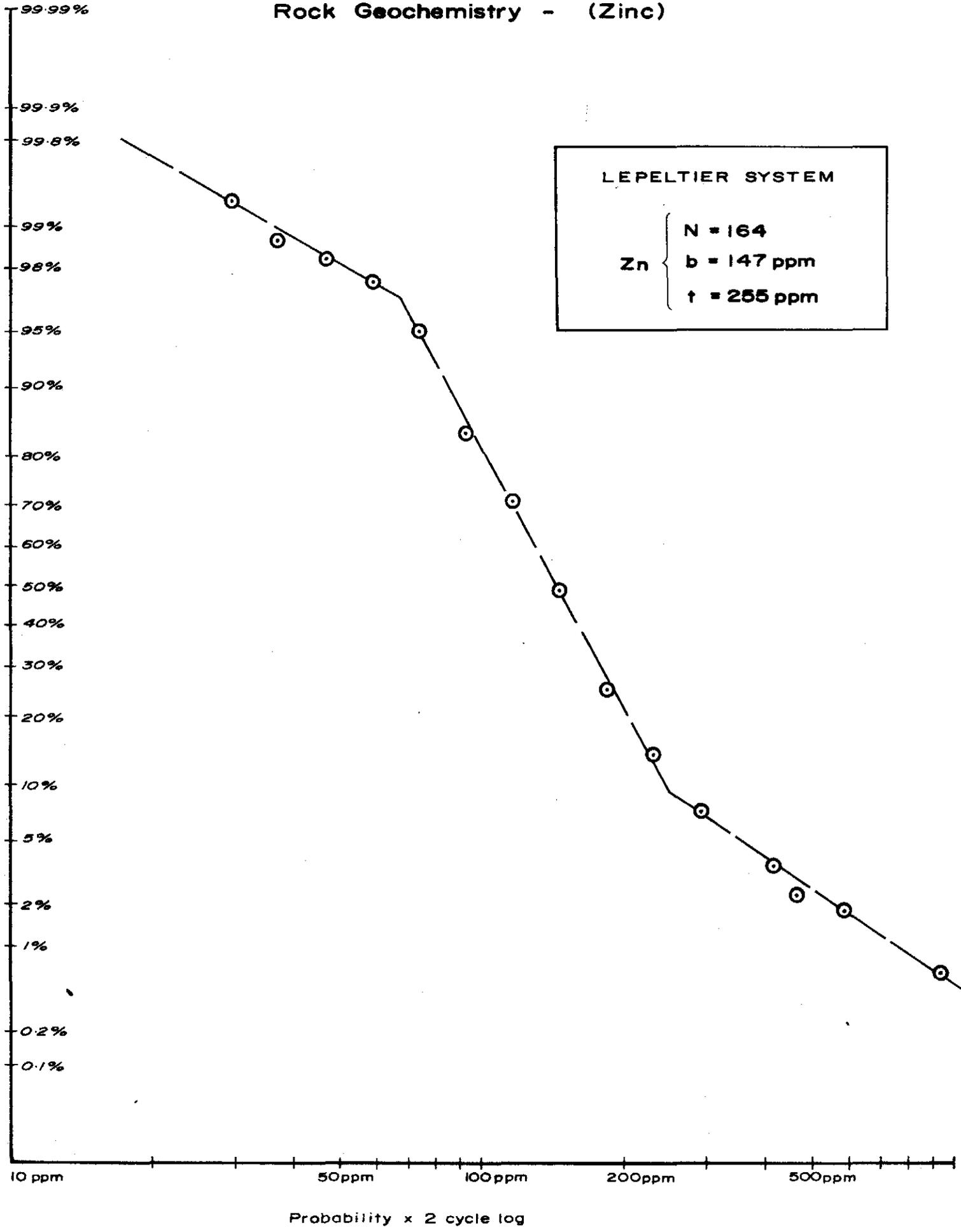


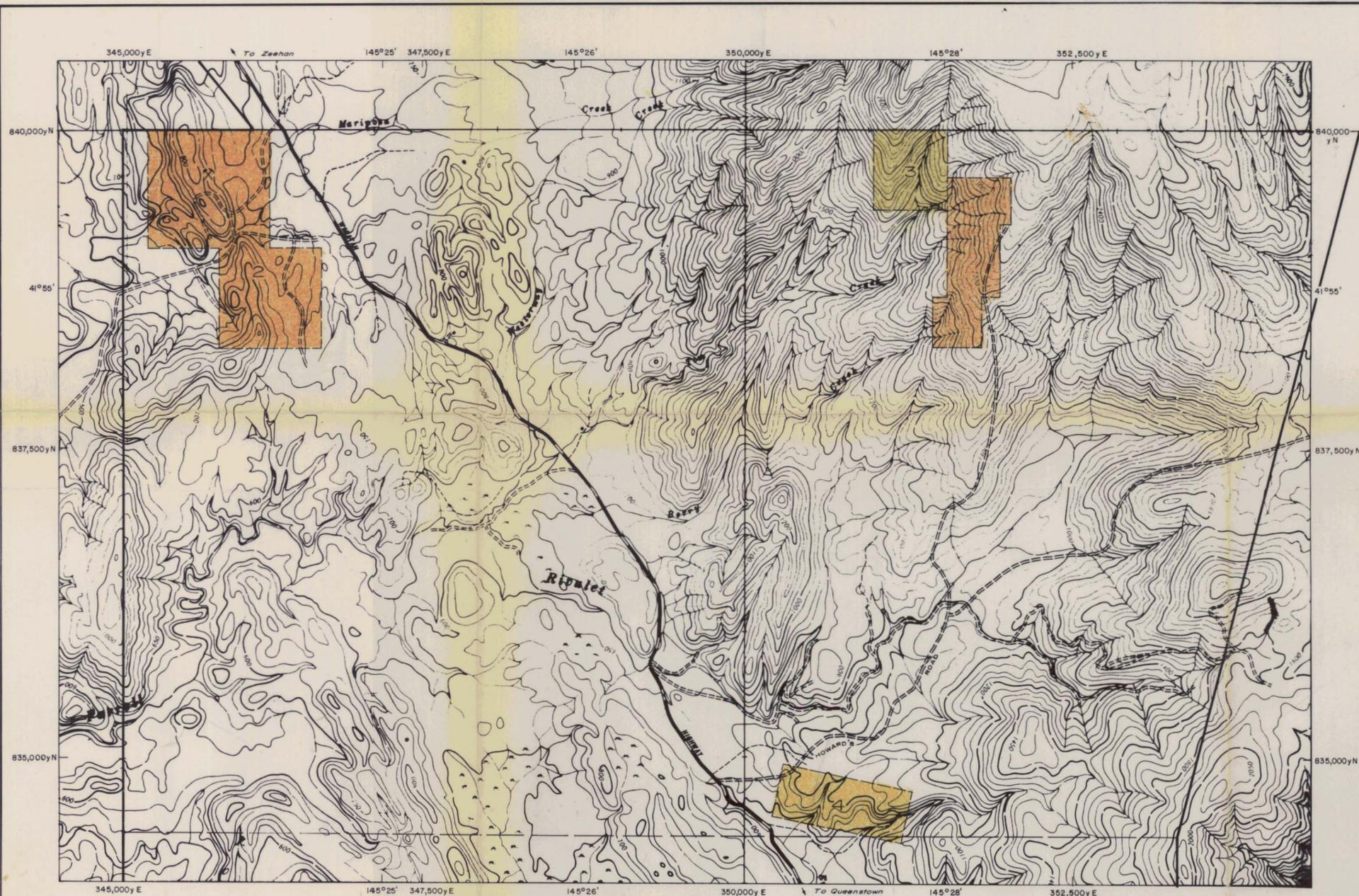
Probability x 2 cycle log

059

McIntyre Reconnaissance & Grid Area Rock Geochemistry - (Zinc)

652060



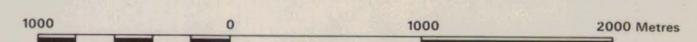
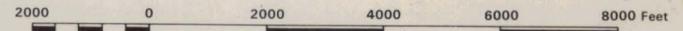


- LEGEND**
- Gravel road
 - Vehicular track
 - Foot track
 - Watercourse
 - Contours
 - Old prospect
 - Boundary of E.L. 7/68

Base map compiled from Tasmanian Topographical Series
Zeehan D.

ANG COORDINATES

Scale: 1 : 25,000



652001

73-982

<p>REGIONAL EXPLORATION</p> <p>Photogeology</p> <p>Tourist survey, stream sediment survey</p>	<p>1 ANOMALY GRID (McINTYRE MINES)</p> <p>Geol: reconnaissance</p> <p>Geoc: soil sampling rock chip</p> <p>Geoph: V.L.F. survey</p>	<p>2 MARIPOSA MINE GRID (McINTYRE MINES)</p> <p>Geol:</p> <p>Geoc: soil sampling</p> <p>Geoph: S.P. survey (P. selective over several lines of south portion of the grid)</p> <p>DDH 12: (N. Broken Hill, Zeehan Exp., McIntyre Mines)</p>	<p>3 GEOPHOTO GRID</p> <p>Geol: detailed over grid lines</p> <p>Geoc: soil sampling rock chip</p> <p>Geoph: V.L.F. - E.M. survey</p>	<p>4 HOWARD GRID</p> <p>Geol: reconnaissance</p> <p>Geoc: soil sampling rock chip</p> <p>Geoph: Ground E.M. survey</p>
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GEOPHOTO RESOURCES

SYDNEY, AUSTRALIA

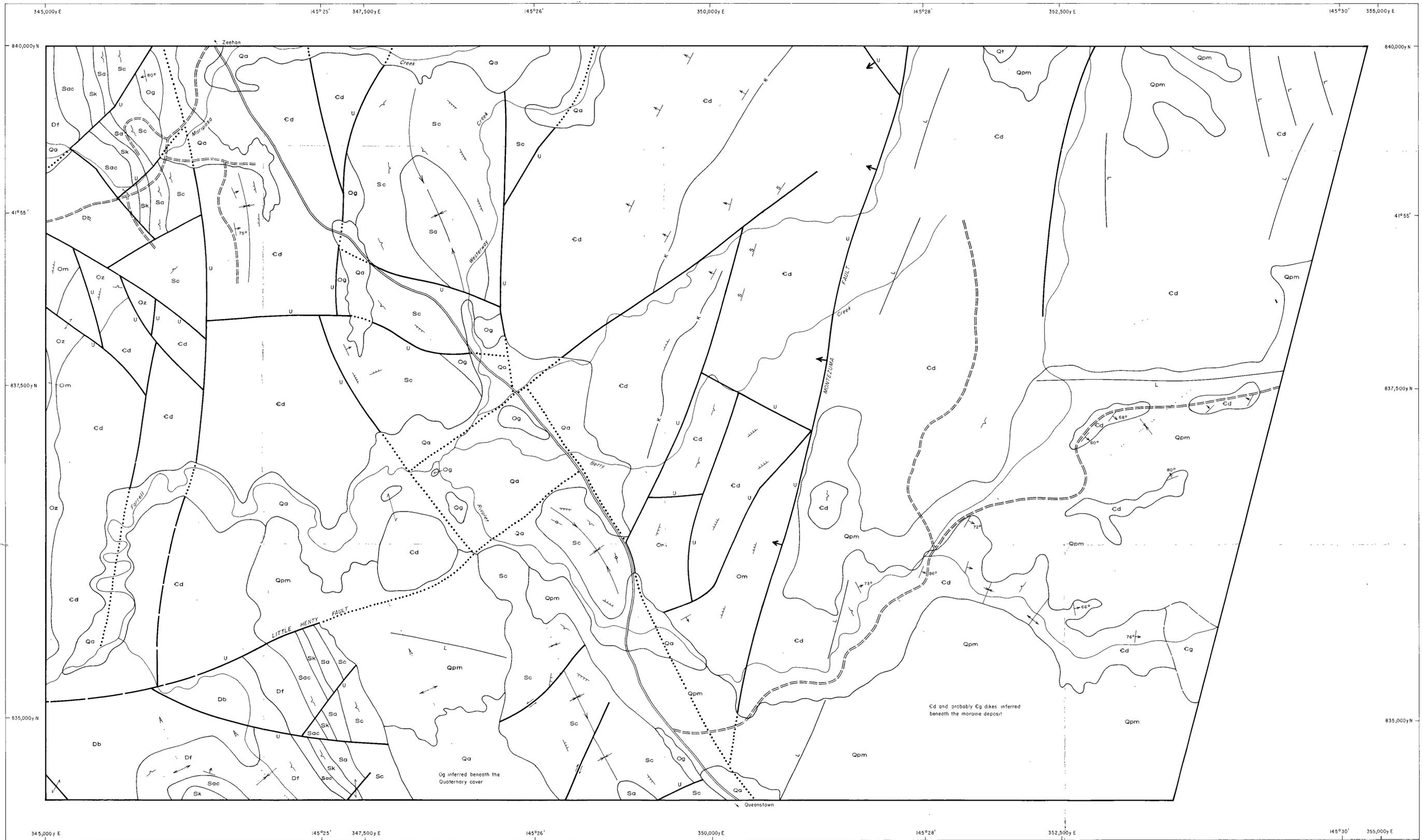
TEXINS DEVELOPMENT PTY. LTD.

EL. 7/68 McINTYRE AREA, TASMANIA

EXPLORATION STATUS OF AREA

2172

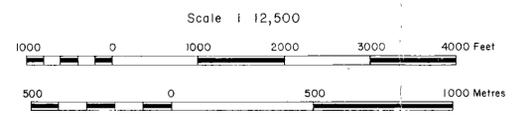
PROJECT	7/68	AUTHOR	A.C. Johnston	DATE	Jan. '74	DWG N°	M-101
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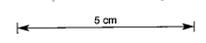
LEGEND

QUATERNARY	Qa	Alluvium - fluvioglacial deposits	ORDOVICIAN	Og	Gordon Limestone
	Qt	Talus		Om	Maina Sandstone
	Qpm	Moraine		Oz	Mount Zeehan Conglomerate
DEVONIAN	Db	Bell Shale	CAMBRIAN	Cd	Dundas Group
	Df	Florence Quartzite		Cg	Gabbro
SILURIAN	Sac	Austral Creek Siltstone			
	Sk	Keel Quartzite			
	Sa	Amber Slate			
	Sc	Crofty Quartzite			

---	Fault, dashed where indefinite, dotted where concealed	—o—	Bedding appears vertical
L	Distinctive lineation, possible fault or fracture	--- ---	Syncline, dotted where concealed
---	Contact, dashed where indefinite	--- ---	Anticline, dotted where concealed
K	Key bed	====	Main road
S	Strike line, direction of dip indeterminate	=====	Vehicular track
↑	Strike and dip, amount of dip indeterminate		
180°	Field observed strike and dip		
---	Dip group 1, less than 3°		
---	Dip group 2, 3° to 10°		
---	Dip group 3, 10° to 25°		
---	Dip group 4, 25° to 45°		
---	Dip group 5, 45° to vertical		



652062



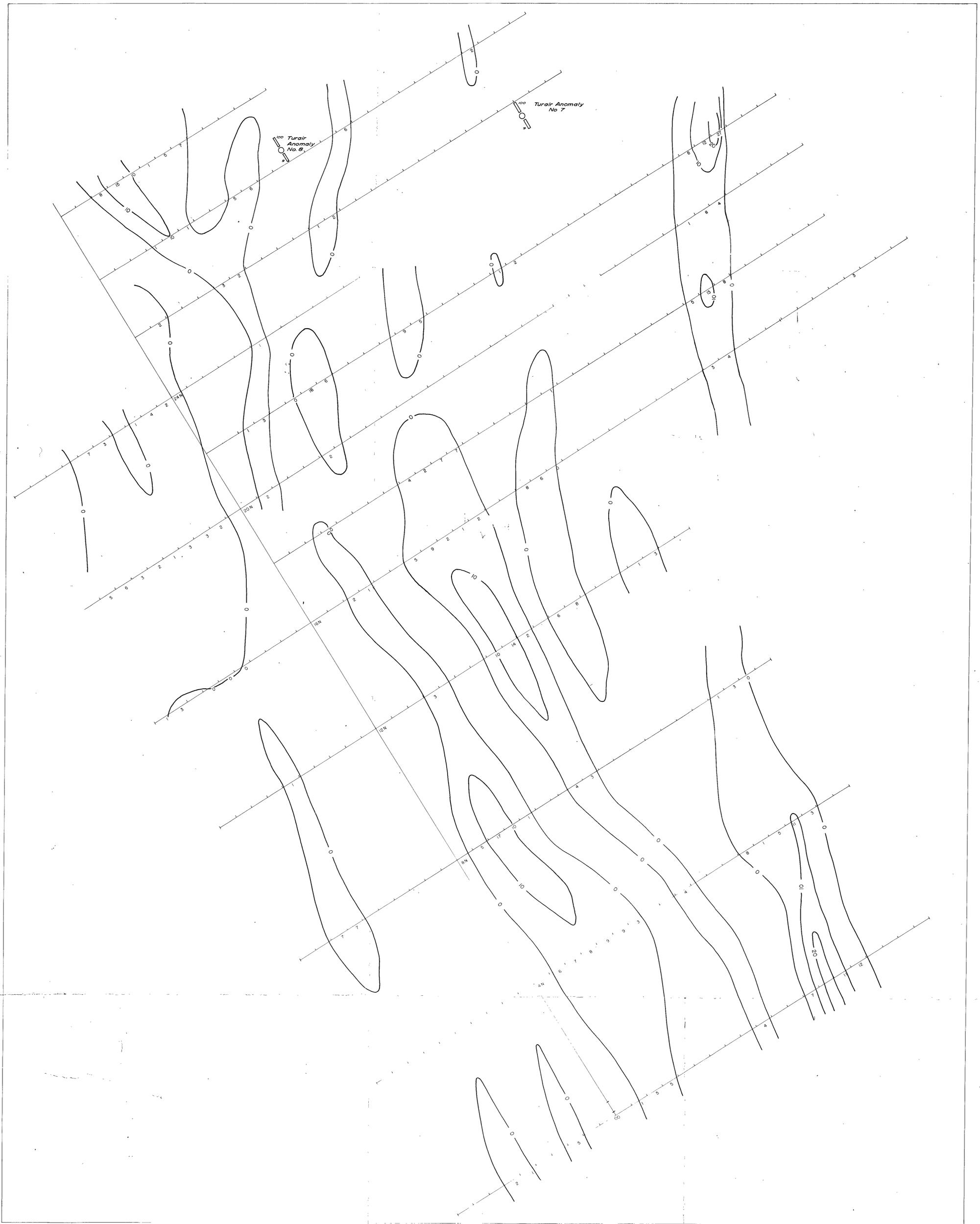
73-982

TEXAS INSTRUMENTS INCORPORATED
GEOPHOTO RESOURCES
 SYDNEY, AUSTRALIA
 TEXINS DEVELOPMENT PTY. LTD.

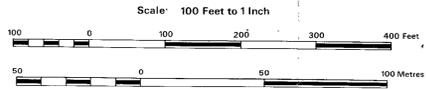
E.L. 7/68 McIntyre DISTRICT, TASMANIA

PHOTOGEOLOGY
 2173

PROJECT	7/68	AUTHOR	L. Discola	DATE	May 1973	DWG NO.	M-106
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10 First derivative value



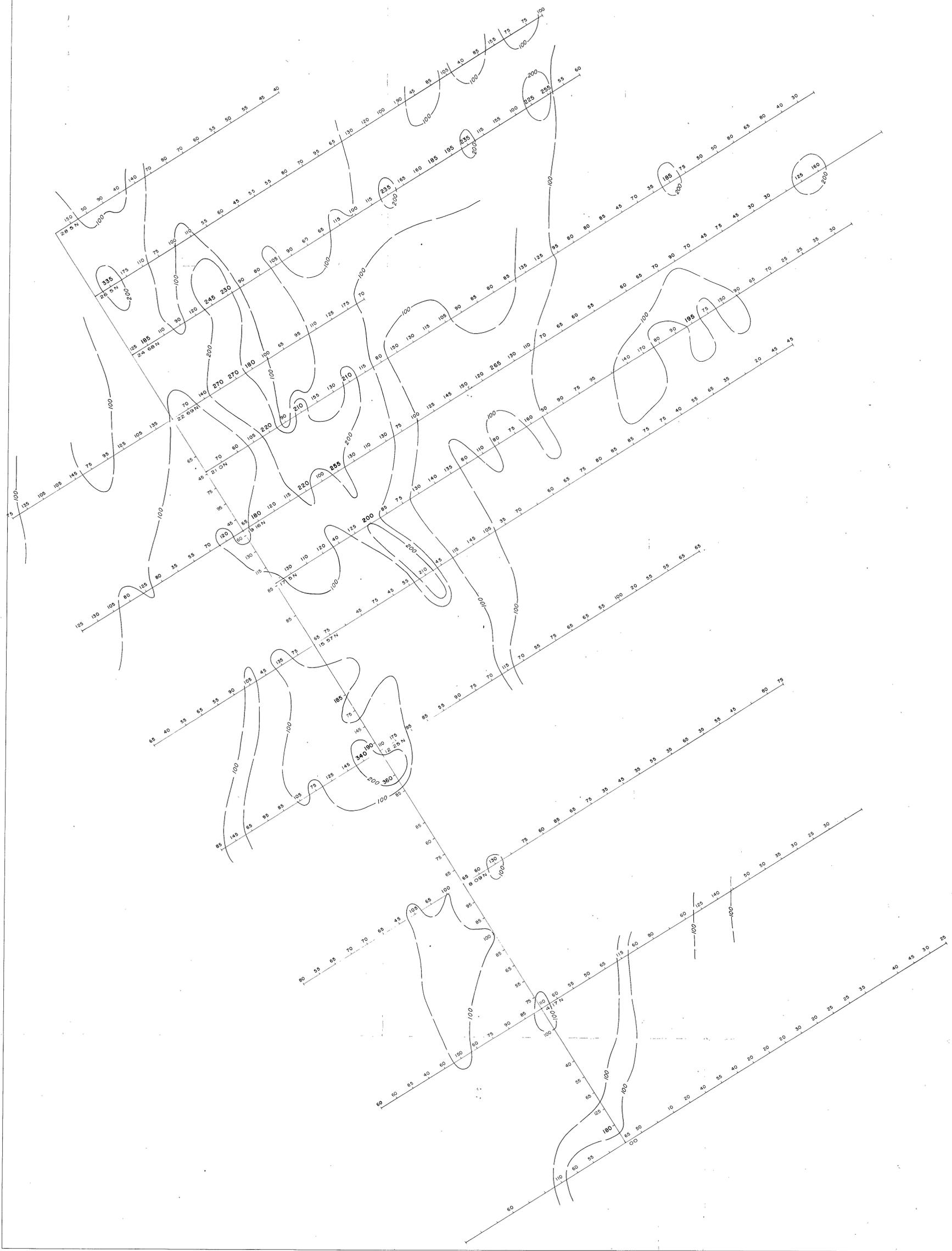
652003 5 cm 73-982

TEXAS INSTRUMENTS INCORPORATED
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 SYDNEY, AUSTRALIA
 TEXINS DEVELOPMENT PTY. LTD.

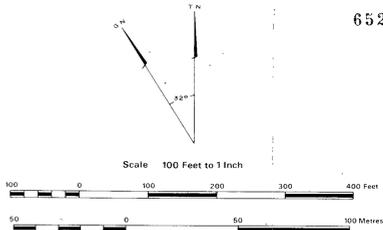
E.L. 7/68 McINTYRE DISTRICT, TASMANIA

Geophoto Grid
 VLF-EM FIRST DERIVATIVE CONTOURS
 approximate location of Turair anomalies

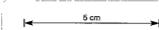
PROJECT 7/68 AUTHOR L. Disola DATE May, 1973 DWG N° M-103



LEPELTIER SYSTEM
 N = 336
 Pb = 75 ppm
 t = 175 ppm



652064

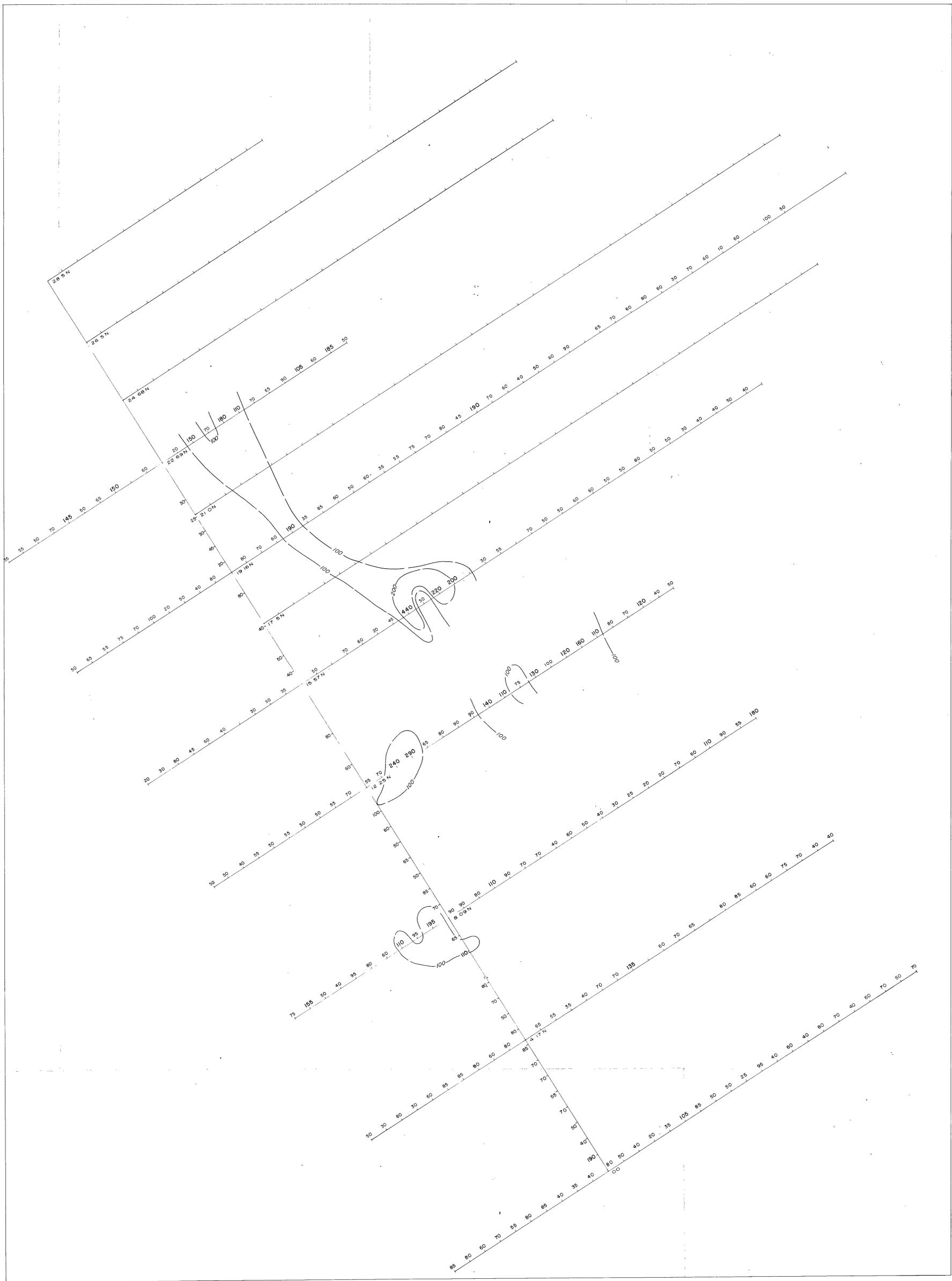


73-982

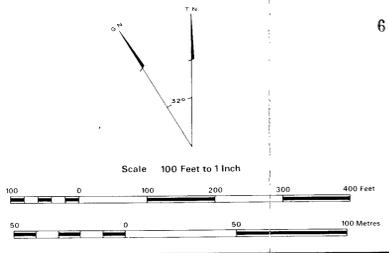
TEXAS INSTRUMENTS INCORPORATED
GEOPHOTO RESOURCES
 SYDNEY, AUSTRALIA
 TEXINS DEVELOPMENT PTY. LTD.
 E.L. 7/68 MCINTYRE DISTRICT, TASMANIA

GEOPHOTO GRID
 Soil Geochemistry
 Lead Values in ppm

PROJECT 7/68 AUTHOR L. DISCIG DATE August 73 RWS ** M-104



LEPÉLTIER SYSTEM
 N = 366
 Zn = 61 ppm
 I = 102 ppm



652065 73-982

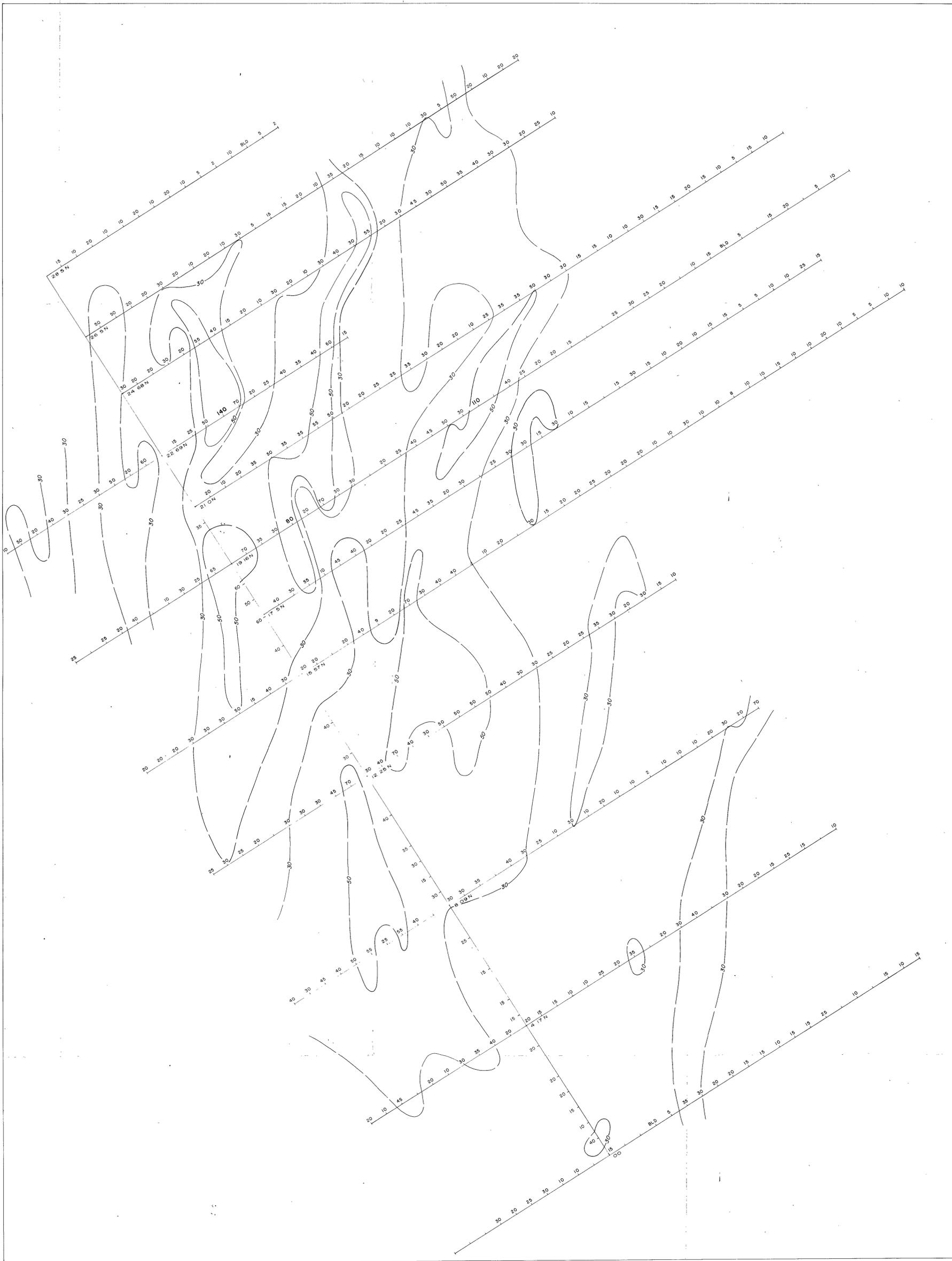
TEXAS INSTRUMENTS INCORPORATED
GEOPHOTO RESOURCES
 SYDNEY, AUSTRALIA

TEXINS DEVELOPMENT PTY. LTD.

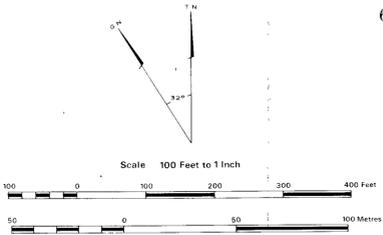
E.L.7/68 MCINTYRE DISTRICT, TASMANIA

GEOPHOTO GRID
 Soil Geochemistry
 Zinc Values in ppm

PROJECT 7/68 AUTHOR L. Discol DATE August 73 DWR M-105



LEPULTIER SYSTEM
 N = 366
 Cu = 23 ppm
 I = 80 ppm



652066 73-982

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 SYDNEY, AUSTRALIA

TEXINS DEVELOPMENT PTY. LTD.
 E.L.7/68 McINTYRE DISTRICT, TASMANIA

GEOPHOTO GRID
 Soil Geochemistry
 Copper Values in ppm

PROJECT 7/68 AUTHOR L. Discol DATE August, 73 DWG N° M-112

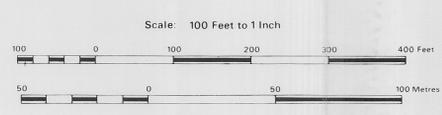


LEGEND

SLATE: pale grey/grey, varying blocky to fissile and often banded and finely laminated

TUFFITE: grey to green-grey, often quartzose and carrying abundant random or joint controlled quartz stringers; occasionally dolomitic and carrying rounded/sub-rounded quartz/quartzite pebbles.

- Fault, dashed where indefinite, arrows showing relative movement
- Contact, dashed where indefinite
- Anticline, dashed where indefinite
- Syncline, dashed where indefinite
- Bedding, inclined
- Bedding, vertical
- Cleavage, inclined
- Joint, inclined
- Joint, vertical
- Quartz vein
- Secondary shear
- Drag fold
- Outcrop
- MCO Rock chip sample location



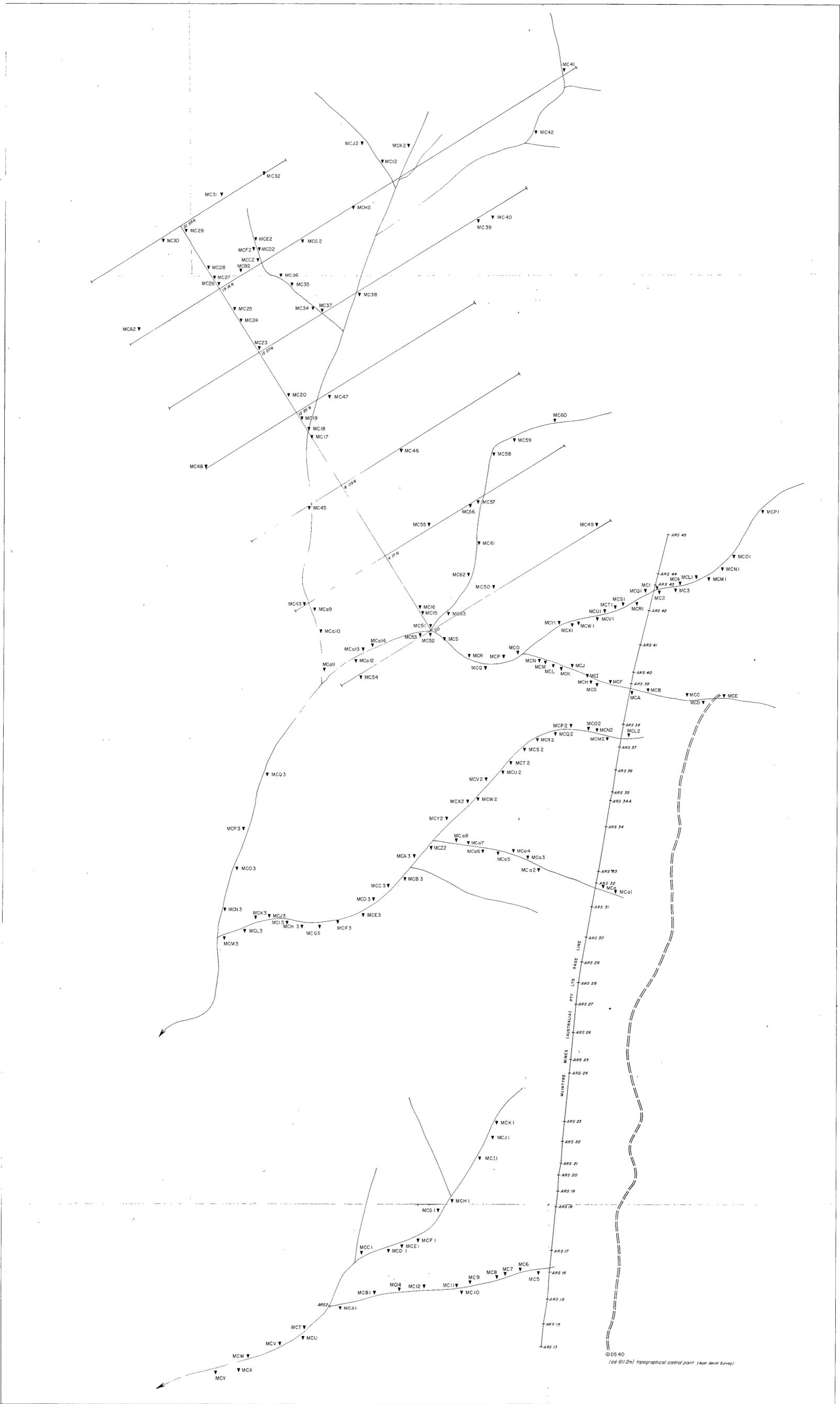
652067 5 cm 73-982

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GEOPHOTO RESOURCES CONSULTANTS
 SYDNEY AUSTRALIA



TEXINS DEVELOPMENT PTY. LTD.
 E.L.7/68 McINTYRE DISTRICT, TASMANIA
 GEOPHOTO GRID
 GEOLOGY 2174

PROJECT 7/68 AUTHOR AC Johnston DATE June 1973 DRAWN BY M/107

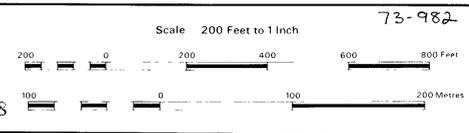


LEGEND

▼ MCR Rock chip sample location

--- Access track

~ Stream



652068

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GEOPHOTO RESOURCES

SYDNEY, AUSTRALIA

TEXINS DEVELOPMENT PTY. LTD.

TN

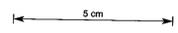
E L 7/68 MINTYRE DISTRICT, TASMANIA

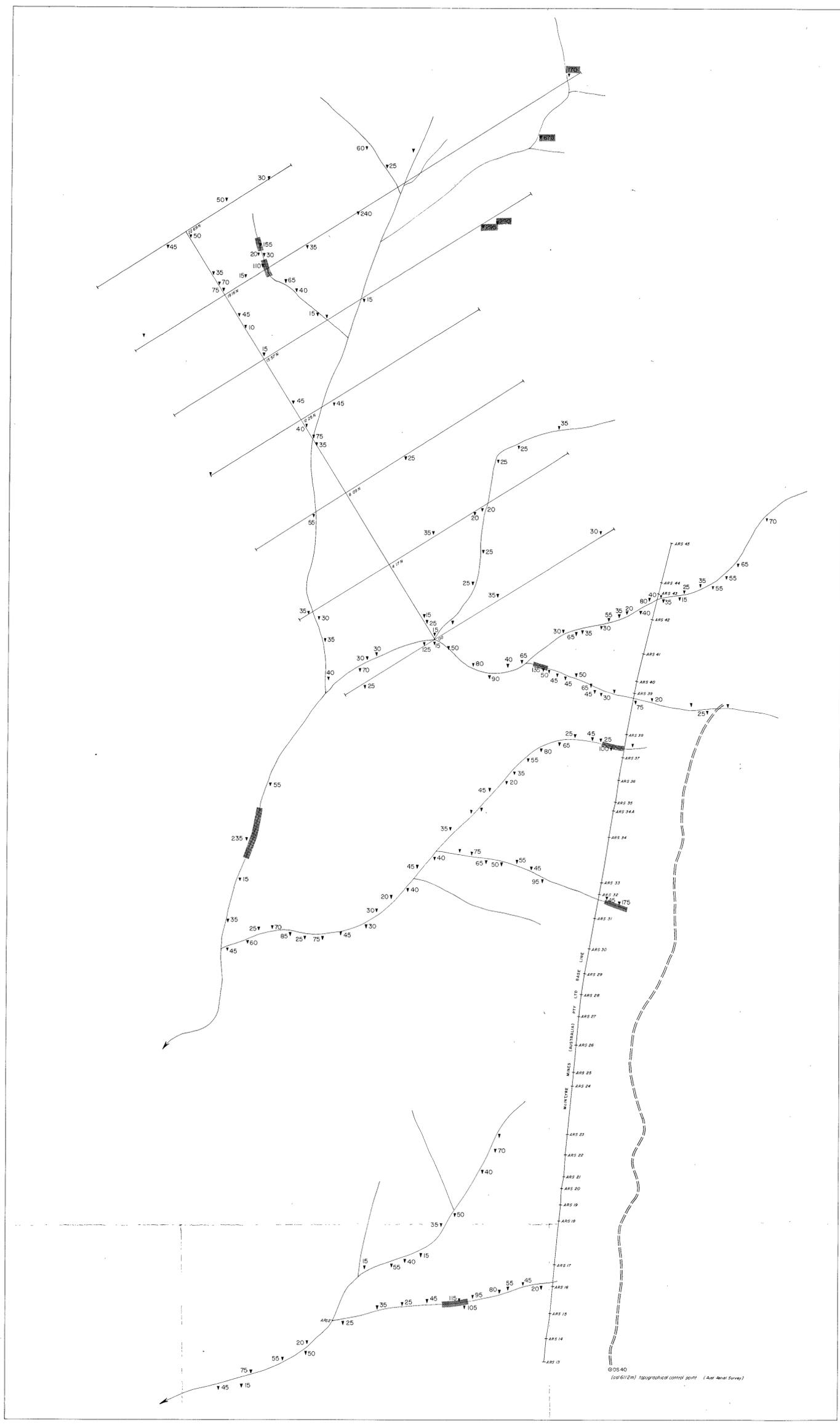
GRID & RECONNAISSANCE AREA

ROCK GEOCHEMISTRY

SAMPLE LOCATIONS 2175

PROJECT 7/68 AUTHOR A.C. Johnston DATE June 1973 DWA MM - 108





LEGEND

- ▼ Rock chip sample location
- 23 Lead value ppm
- █ Above threshold value
- ≡≡≡ Access track
- Stream

LEPELTIER SYSTEM

N = 162
 Pb = 44 ppm
 t = 96 ppm

652069 Scale: 200 Feet to 1 Inch 73-982

0 200 400 600 800 Feet
 0 100 200 Meters

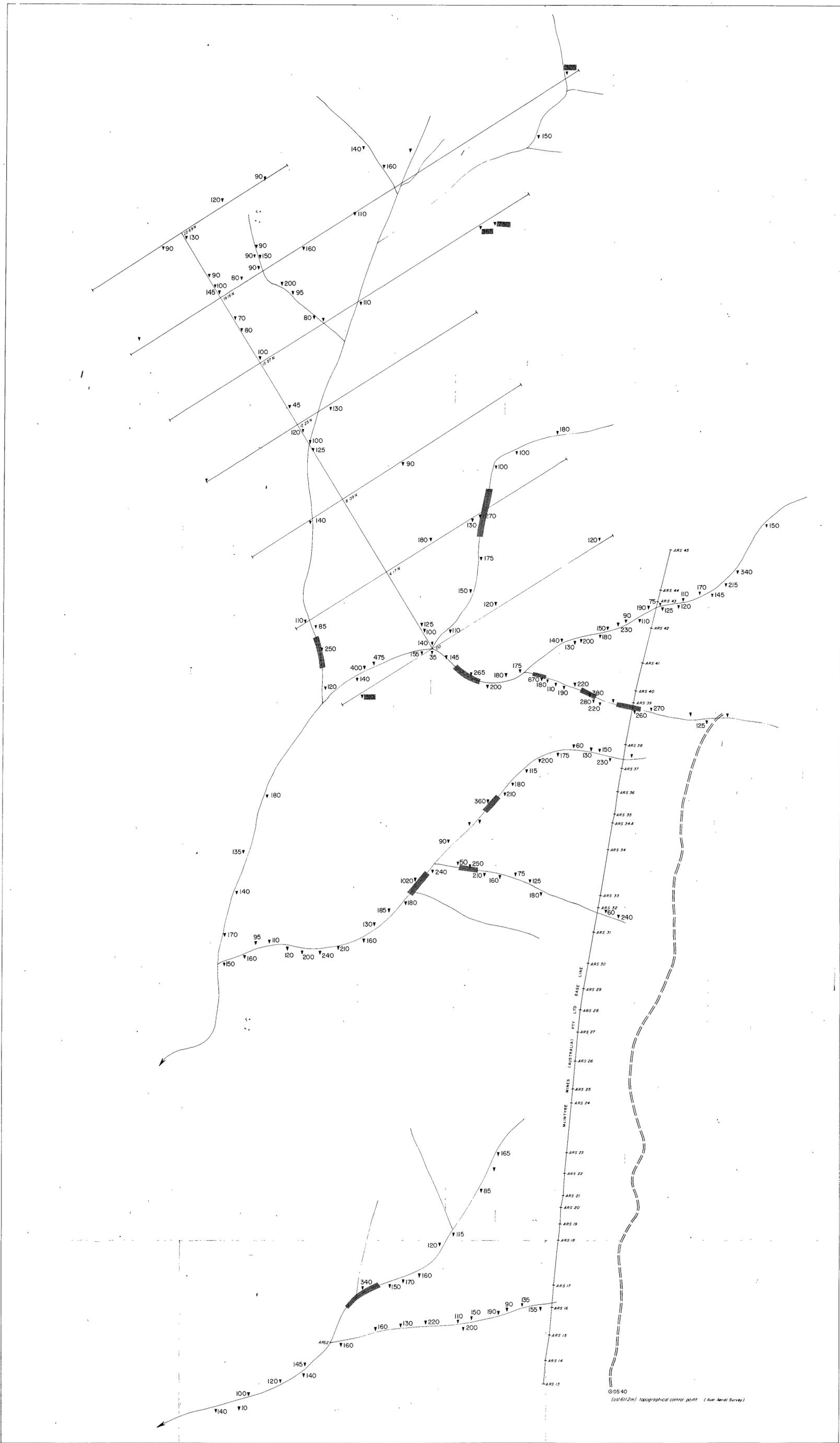
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GEOPHOTO RESOURCES
 SYDNEY, AUSTRALIA

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 E.L. 7/68 McINTYRE DISTRICT, TASMANIA

TN
 GRID & RECONNAISSANCE AREA
ROCK GEOCHEMISTRY
 LEAD VALUES PPM

PROJECT 7/68 AUTHOR A.C. Johnston DATE July 1973 DWS N° M-110

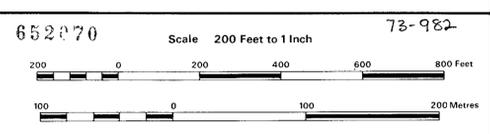
5 cm



- LEGEND**
- ▼ Rock chip sample location
 - 23 Zinc value ppm
 - Above threshold value
 - == Access track
 - Stream

LEPELTIER SYSTEM

$$\left\{ \begin{array}{l} N = 164 \\ b = 147 \text{ ppm} \\ t = 255 \text{ ppm} \end{array} \right.$$



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 SYDNEY, AUSTRALIA

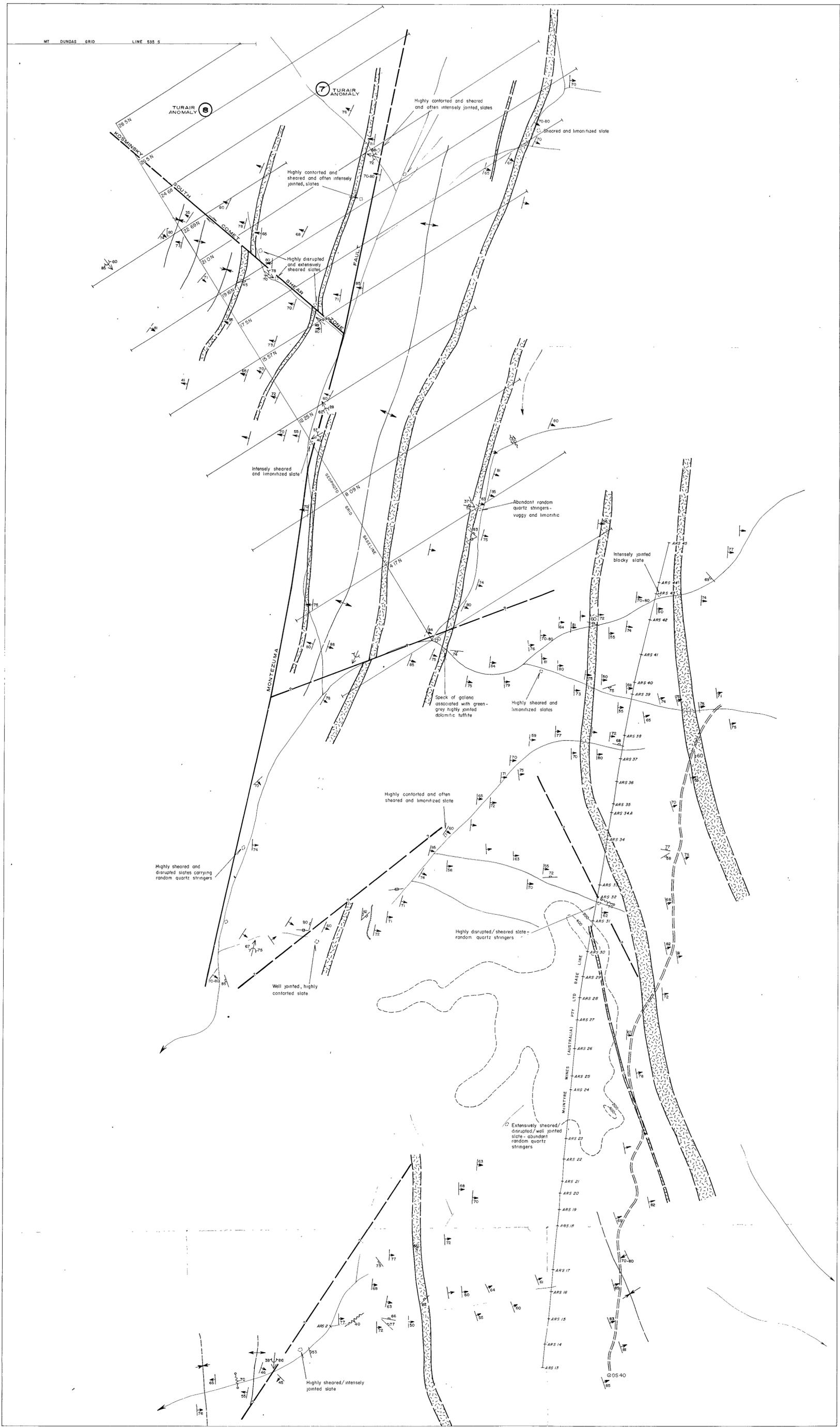
TEXINS DEVELOPMENT PTY. LTD.

E.L.7/68 McINTYRE DISTRICT, TASMANIA

GRID & RECONNAISSANCE AREA
ROCK GEOCHEMISTRY
ZINC VALUES PPM

PROJECT 7/68 AUTHOR A.C. Johnston DATE July 1973 DWS N° M-III

5 cm



SLATE: pale grey/grey, varying blocky to fissile and often banded and finely laminated occasionally tuffaceous

TUFFITE: grey to green-grey, often quartzose and carrying abundant random or joint controlled quartz stringers, occasionally dolomitic and carrying sub-rounded/rounded quartz/quartzite pebbles

- LEGEND**
- Fault, dashed where indefinite, questioned where inferred, arrows showing relative movement
 - - - Contact, dashed where indefinite
 - ↗ Anticline, dashed where indefinite
 - ↘ Syncline, dashed where indefinite
 - DS 40 (A.S.L. 611.2M) Topographic control point (Aust Aerial Survey)
 - - - Access track (bulldozed)
 - - - Stream, dashed indicates gully
 - ↗ Bedding, inclined
 - ↕ Bedding, vertical
 - ↗ Cleavage, inclined
 - ↗ Joint, inclined
 - ↕ Joint, vertical
 - Quartz vein
 - ~ Secondary shear
 - ↘ Drag fold
 - ◊ Outcrop
 - McIntyre Mines soil anomaly (Pb)

632071 Scale 200 Feet to 1 Inch 73-982

0 200 400 600 800 Feet

0 100 200 Metres

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TEXINS DEVELOPMENT PTY. LTD.

E.L.7/68 McIntyre DISTRICT, TASMANIA

GRID & RECONNAISSANCE AREA

GEOLOGY

2176

PROJECT 7/68 AUTHOR A.C. Johnston DATE June 1973 DWG. NO. M-109

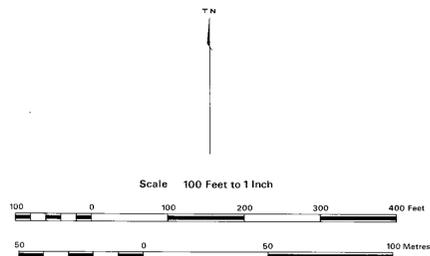
5cm



- Qm** Quaternary moraine cover
- Cd1** Slates, grey, minor interbedded tuffite, occasionally dark grey and tuffaceous
- Cd2** Sandstone, pale grey, medium to coarse grained, pebbly
Conglomerate, minor interbedded tuffaceous (?) grit bands
- Cd3** Shale, pale grey, occasionally thinly interbedded pale grey sandstone
- Cd4** Mixed sequence of grey siltstones, shales, fine grained sandstones and pale grey / grey shale
- Cd5** Tuffites, highly weathered, lesser interbedded tuffaceous sandstones and pale grey shales

LEGEND

- Fault, dashed where indefinite, questioned where inferred
- Contact, dashed where indefinite, questioned where inferred
- Anticline (minor)
- Bedding - inclined
- Bedding - vertical
- Jointing - inclined
- Jointing - vertical
- Gravel road
- Stream
- Rock chip sample location

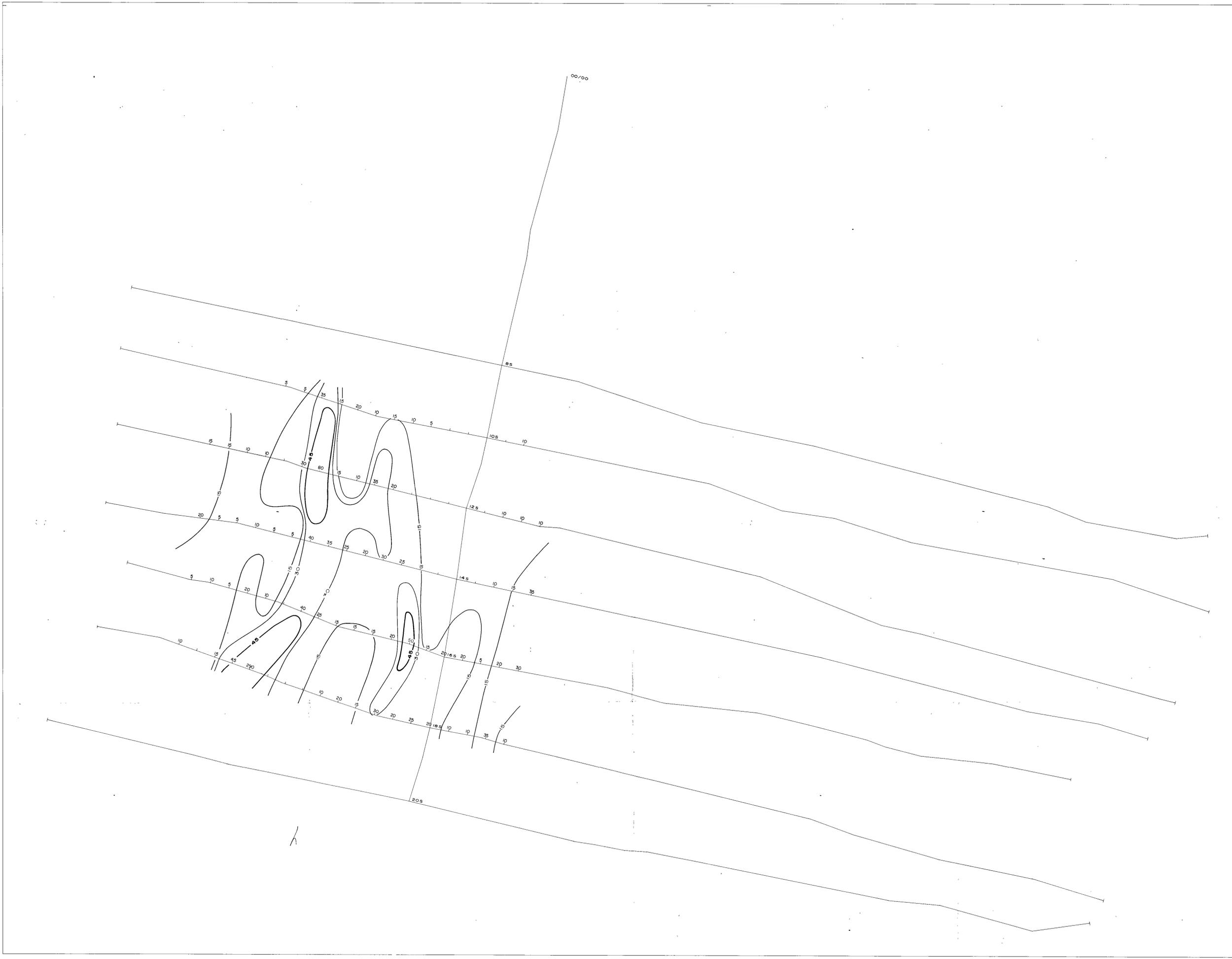


652072 5 cm 73-982

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 TEXINS DEVELOPMENT PTY. LTD.
 EL 7/68 MCINTYRE AREA, TASMANIA

HOWARD GRID 2177
GEOLOGICAL SKETCH MAP

PROJECT 7/68 AUTHOR AC Johnson DATE January '76 DWG N° M 113



Mean background - 10 ppm
 Provisional threshold - 45 ppm

T.N.



652073

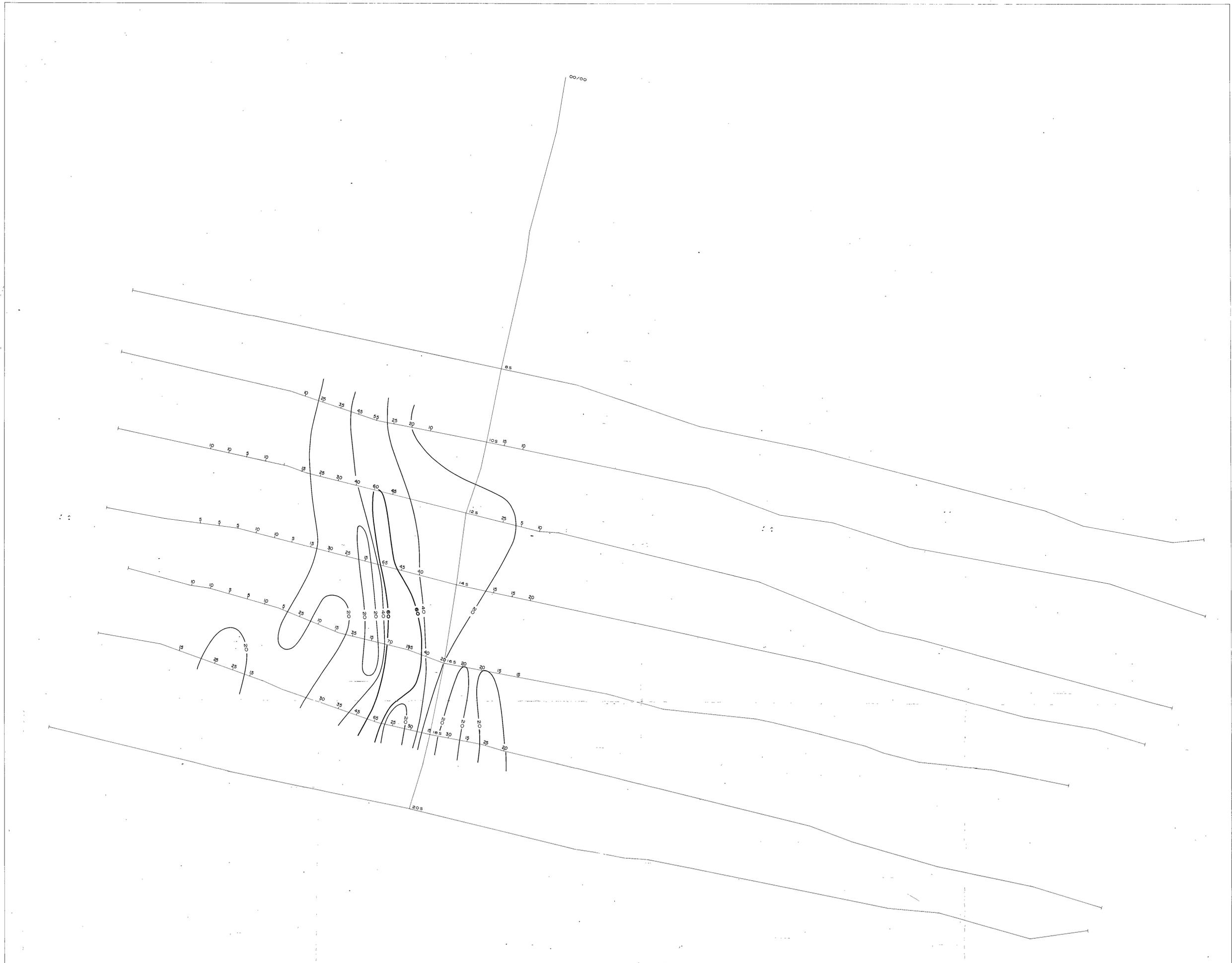


73-982

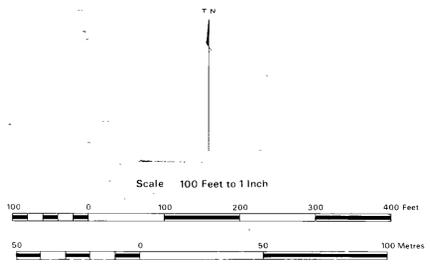
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 SYDNEY, AUSTRALIA
 TEXINS DEVELOPMENT PTY. LTD.
 EL 7/68 MCINTYRE AREA, TASMANIA

HOWARD GRID
 SOIL GEOCHEMISTRY SURVEY
 LEAD VALUES (PPM)

PROJECT	7/68	AUTHOR	AC JOHNSON	DATE	January '78	DWG. NO.	M 114
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Mean background - 12 ppm
 Provisional threshold - 60 ppm



652074 73-982

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TEXINS DEVELOPMENT PTY. LTD.
 EL 7/68 McINTYRE AREA, TASMANIA

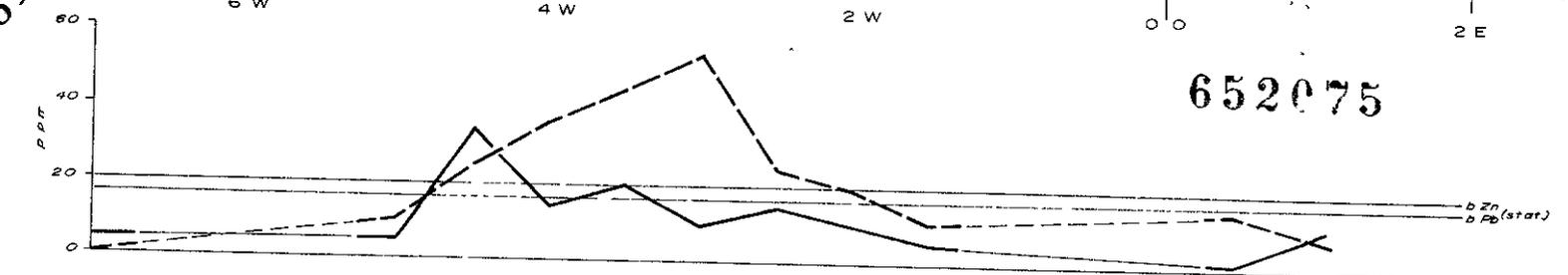
HOWARD GRID
 SOIL GEOCHEMISTRY SURVEY
 ZINC VALUES (PPM)

PROJECT 7/68 AUTHOR AC JENNINGS DATE January 79 DWG. NO. M 115

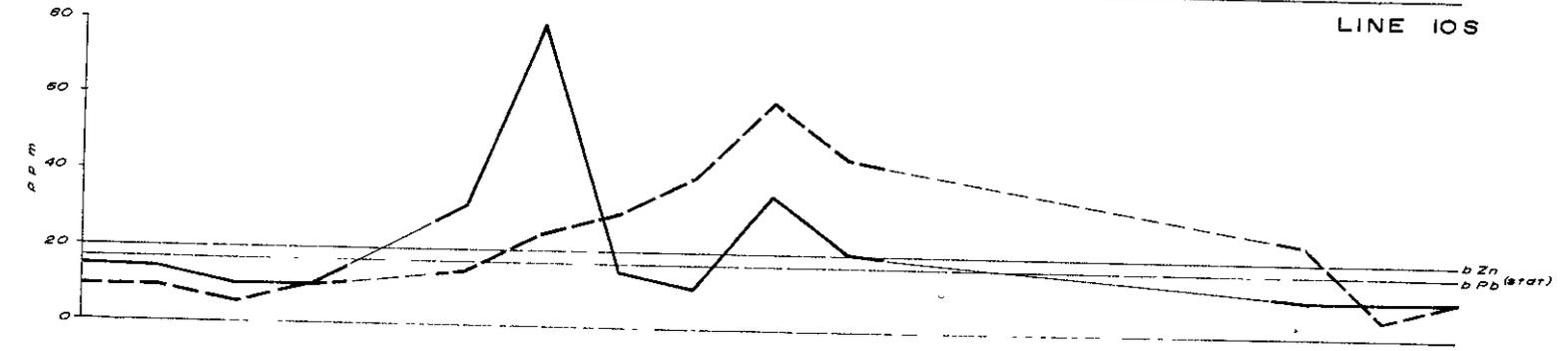
061

6 W 4 W 2 W 0 0 2 E

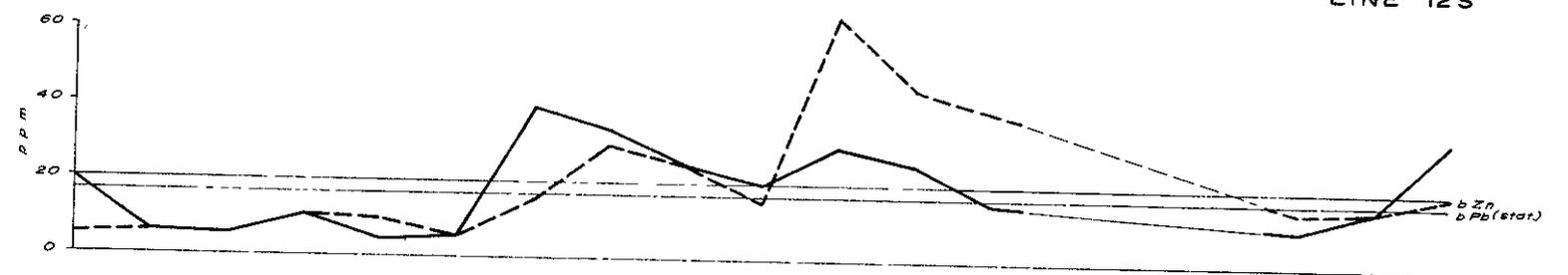
652075



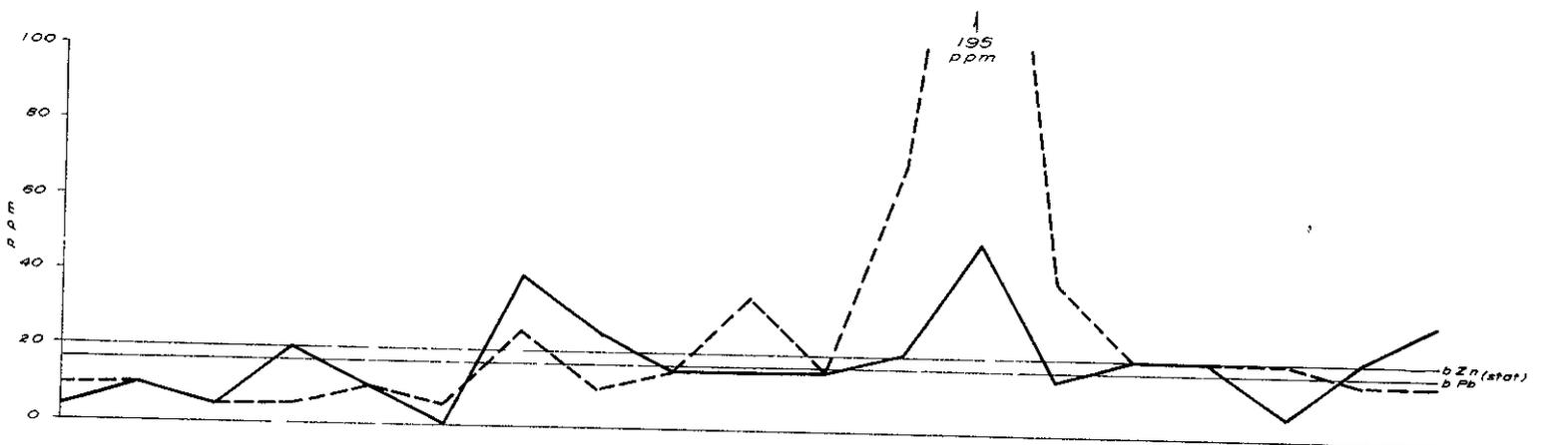
LINE 10S



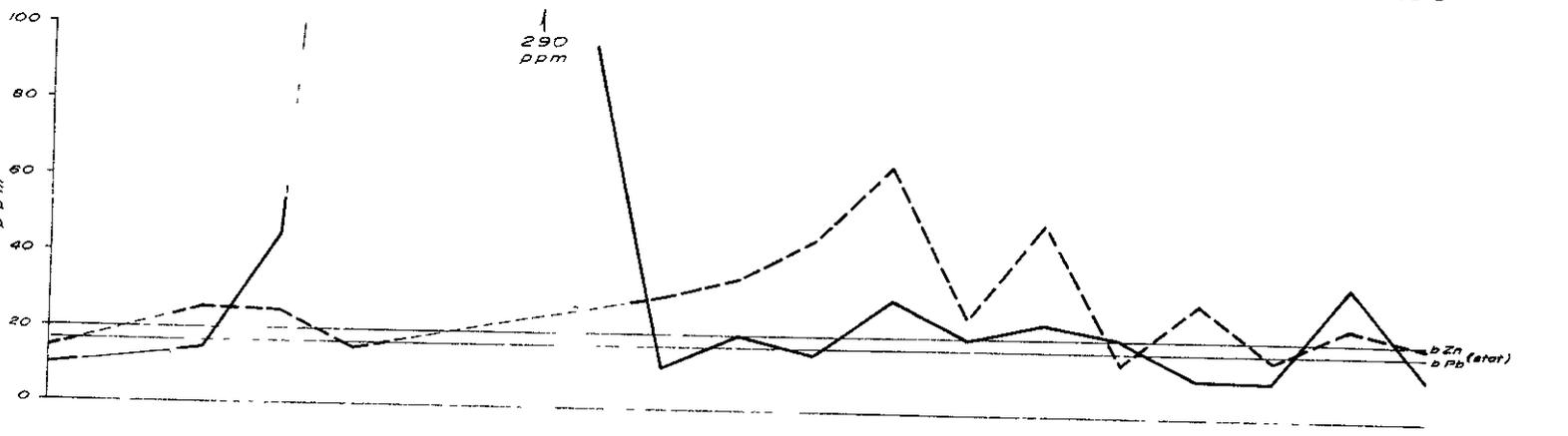
LINE 12S



LINE 14S



LINE 16S



LINE 18S

— Lead
 - - - Zinc

73-982

HOWARD GRID
 SOIL GEOCHEMISTRY Pb & Zn PROFILES

6 W

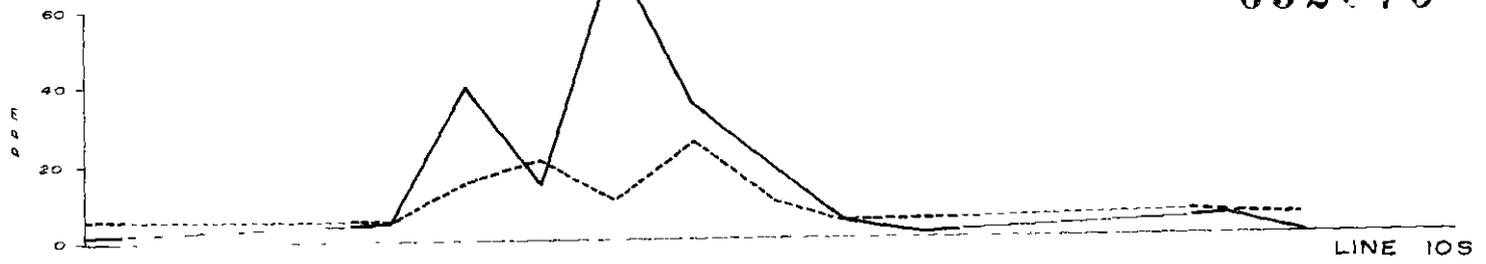
4 W

2 W

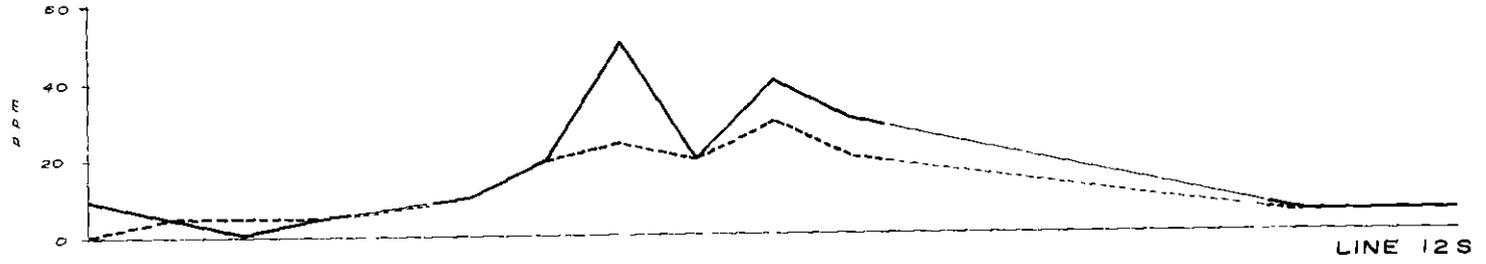
0 0

2 E

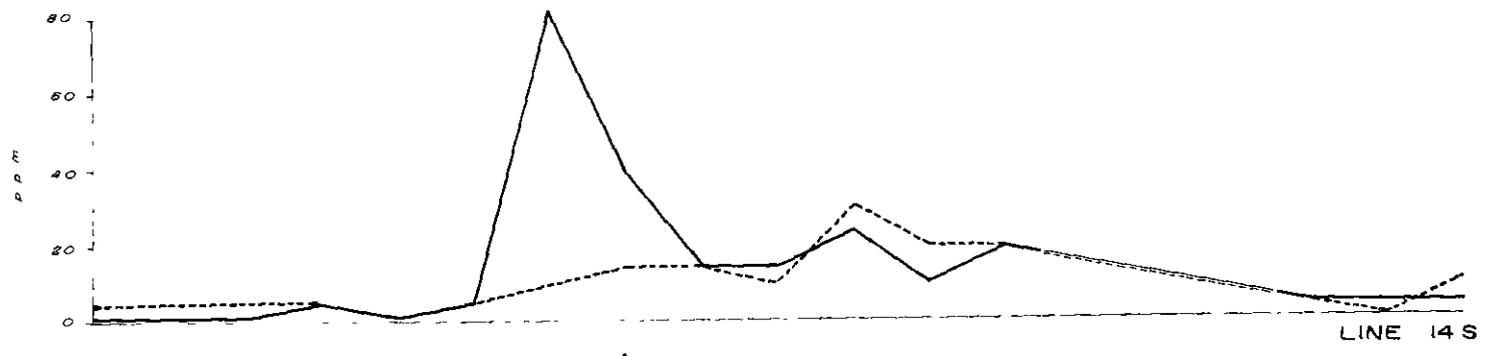
652076



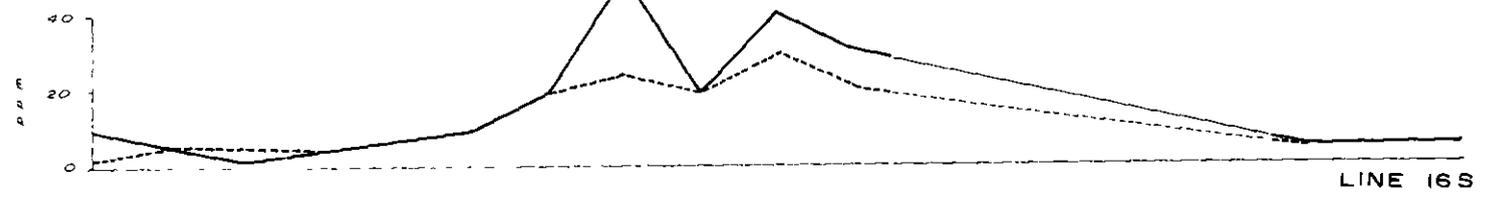
LINE 10S



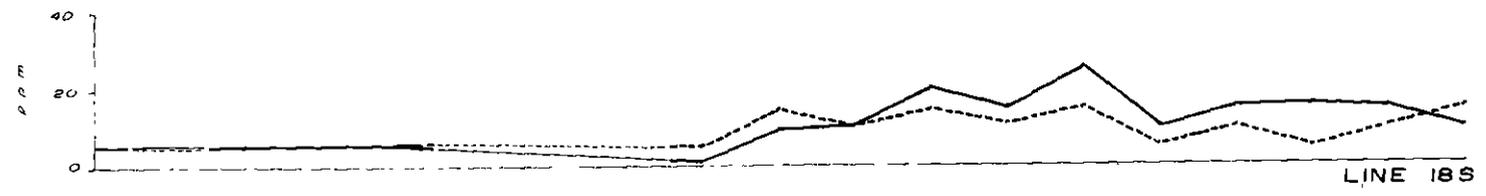
LINE 12S



LINE 14S



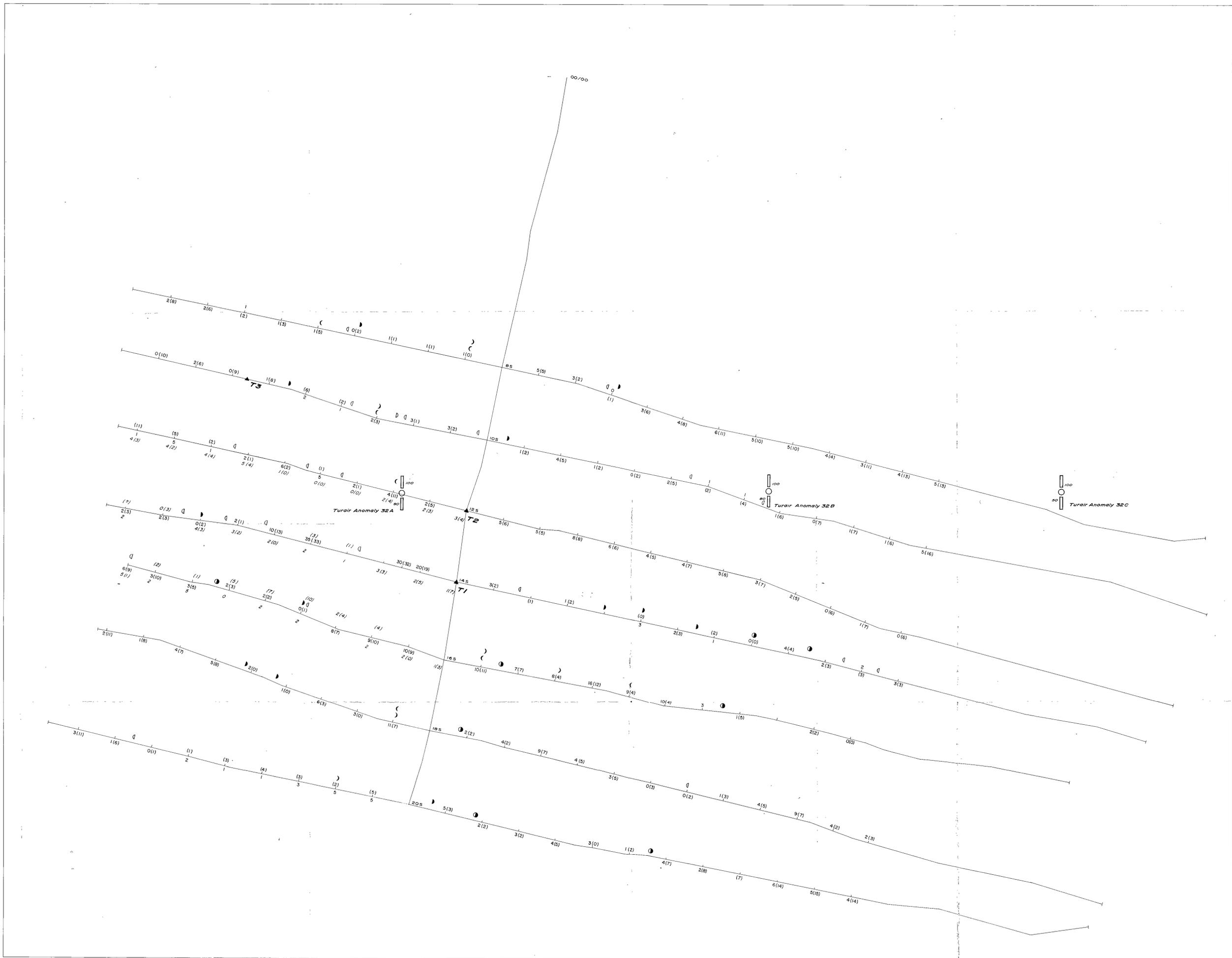
LINE 16S



LINE 18S

———— Copper
 - - - - Nickel

HOWARD GRID
 SOIL GEOCHEMISTRY Cu & Ni PROFILES



LEGEND

2(7) 1000 c/s value (5000 c/s value) in degrees
 ◯ cross-over 5000 c/s
 ◯ cross-over 1000 c/s
 ● cross-over for both 1000 c/s and 5000 c/s
 (inflection point - 5000 c/s
) inflection point - 1000 c/s
 [100] approximate location Turair Anomalies
 80 [] where 100 = σ and 80 = depth in metres

▲ T1 transmitter location for lines 8S, 10S, 12S, 16S, 18S, 20S
 ▲ T2 transmitter location for line 14S
 ▲ T3 transmitter location for lines 12S, 14S, 16S
 readings shown = 2(4)
 Convention $\frac{N}{E}$

Scale 100 Feet to 1 Inch



652077

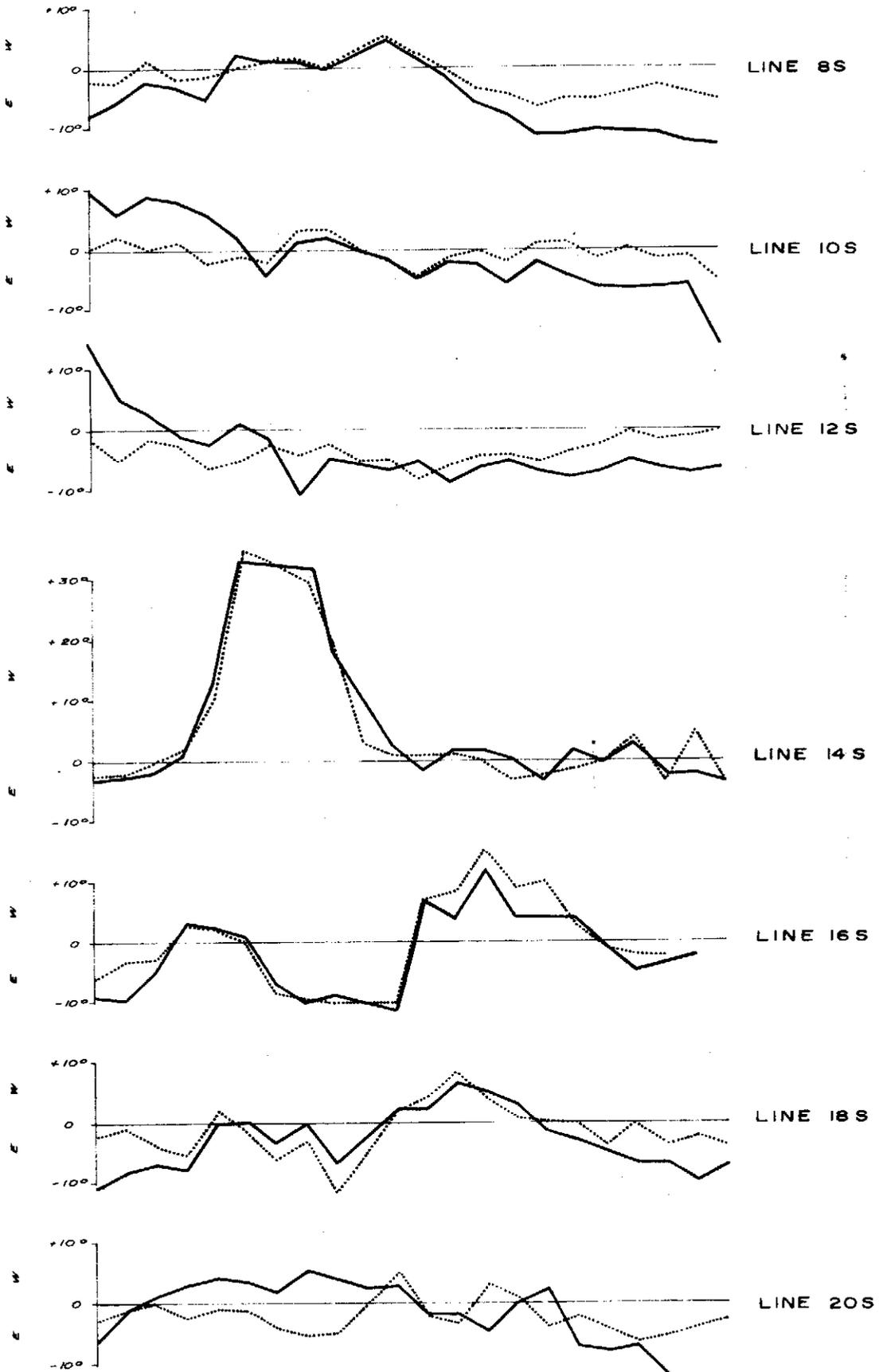


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 EL 7/68 McINTYRE AREA, TASMANIA

HOWARD GRID
 E M SURVEY
 showing approximate location of Turair anomalies

PROJECT	7/68	AUTHOR	AC Johnson	DATE	January 74	DWG. NO.	M 116
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..... 1000 c/s
 _____ 5000 c/s
 Transmitter location T1 = 14S,00
 T2 = 12S,00 (line 14S only)

HOWARD GRID
E. M. PROFILES