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GEOCHEMICAL AND RADIOMETRIC SURVEY RUM JUNGLE N.T.1964.

by

R.G.Dodson and D.O.Shatwell

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GEOCHEMICAL AND RADIOMETRIC SURVEY RUM JUNGLE NORTHERN TERRITORY, 1964.

by

R.G. Dodson and D.O. Shatwell

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SUMMARY

The 1964 geochemical and radiometric survey in the Rum Jungle Area consisted of a reconnaissance survey of an area named Rum Jungle East and the continuation of the detailed survey of the region between the Giant's Reef Fault and the inferred Mt. Fitch Fault, known as the Rum Jungle Triangle. The main objective was to prospect for uranium and base metal occurrences. The geochemical and radiometric survey was co-ordinated with geophysical and surface radiometric surveys made by J. Ashley and K. Duckworth, geophysicists.

During the survey, 3664 auger drill holes were drilled to a total footage of just under 50,000 feet. As far as possible the holes were drilled to identifiable rock. The drilling was planned with the following objectives:-

1. To provide sufficient geological information for mapping concealed geological boundaries.

2. To allow radiometric probing to moderate depths.

3. To collect samples of weathered rock at the soil-weathered rock interface for geochemical analysis.

The radiometric survey revealed a slight peak of limited extent in the Rum Jungle East area and a more extensive anomaly in the Rum Jungle Triangle area.

Samples collected were analysed by emission spectrograph for copper, zinc, cobalt, nickel, lead, molybdenum, and in certain specimens, bismuth. The results from the Rum Jungle Triangle area were plotted and contoured at levels determined by statistical analysis. Contouring indicated a series of disconnected but possibly related anomalies straddling the contact between Golden Dyke Formation and Coomalie Dolomite. In view of the wide spacing of traverse lines in the Rum Jungle East area, analysis values were plotted as traverse line profiles.

The anomalies of the Rum Jungle Triangle area and certain peaks of high values in the Rum Jungle East area warrant detail investigation.

RUM JUNGLE GEOCHEMICAL AND RADIOMETRIC SURVEY, 1964

BY

R.G. DODSON AND D.O. SHATWELL

INTRODUCTION

The 1964 Geochemical and Radiometric survey in the Rum Jungle area covered two areas described for the purpose of this report as Rum Jungle East and Rum Jungle Triangle. The Rum Jungle East area is 60,000 feet long and extends from the Giant's Reef Fault line immediately south of Manton Dam to south of the Batchelor Road. East-west traverse lines were spaced at 2,400 feet intervals, auger drill holes being sited 200 feet apart along the traverses. Because of the extent of the area and the wide spacing of the traverse lines, geological and geochemical data were recorded on maps of 1" = 1,000' scale. Area 44 (not yet described) is included in the Rum Jungle East area. The Rum Jungle Triangle area is 33,200 feet long and includes those parts of the area bounded by the Giant's Reef Fault and the inferred Mt. Fitch Fault, as far north as Mt. Burton, which have not hitherto been auger drilled. Geochemical and geological data of this area is shown on maps of 1" = 400' and 1" = 1000' scale. Selection of the areas was influenced by the location of the Golden Dyke Formation - Coomalie Dolomite contact, as most known economic mineralisation in the Rum Jungle area occurs along this stratigraphic position.

Fieldwork commenced in May, 1964, the party based in Batchelor consisting of R.G. Dodson, geologist, and four field assistants. D.O. Shatwell, geologist, joined the field party in June, 1964. The survey was completed in September, 1964.

The traverse lines were pegged by a contract surveyor, the grids serving for both the geochemical/radiometric surveys and for electromagnetic, magnetic, and surface radiometric surveys made by the 1964 geophysical party. Employment of an independent surveyor allowed the geochemical survey of such a relatively large area to be completed within the Northern Territory dry season. Two Gemco auger drills were contracted for the drilling program of 3664 holes, totalling nearly 50,000 feet. Drilling lasted from 19th May until 28th August.

The survey was made with the following objectives:-

1. To assess the potential uranium and base metal mineralisation and to investigate in greater detail the geological succession in the Rum Jungle East area.

2. To continue the detail survey of the Rum Jungle Triangle area.

Concurrently with the geochemical survey, a geophysical survey was made by a party consisting of geophysicists J. Ashley and K. Duckworth, a geophysical assistant and four field assistants. The geophysical survey consisted mainly of electromagnetic traverses along the surveyed grids. In addition, magnetic traverses were made where previously established aeromagnetic anomalies were located, and electric and radiometric loggings were carried out on six diamond drill holes. Initial electromagnetic work was done by Swedish A.B.E.M. Slingram; Turam equipment was used for detailed work because of its ability to penetrate to greater depths.

FIG. 1

LOCALITY MAP

GEOCHEMICAL SURVEYS 1964

Scale in Miles

1 0 1 2

North

10000 E 20000 E 30000 E 40000 E

131°01' 131°05'

12°55'

13°01'

13°05'

60000 N 50000 N 40000 N 30000 N 20000 N 10000 N 00

Mt. Fitch Fault

NORTH AUSTRALIA RAILWAY

To Darwin

Kanyaka Siding

Mt Fitch

B.L. 10000 E

350N 330N 310N 290N 270N 250N 230N 210N 190N 170N 150N 130N 110N 90N 70N 50N 30N

Mt Burton

Finnis River

Dolerite Ridge

Area 55

Rum Jungle Siding

Rum Jungle Creek

Rum Jungle Creek South

Batchelor

Airfield

Rum Jungle Granite

Giant's Reef Fault

Rum Jungle Triangle

Rum Jungle East

DARWIN

PINE CREEK

12° 13° 14°

Reference to Australia Standard Map Series 1:250,000

120E To Darwin

98E 161E 120N

81E 163E 96N

73E 165E 72N

53E 157E 48N

30E 151E 24N

00 4W 146E 00

24W 134E 24S

5W 118E 48S

60W 34W 4W 104E 72S

38W 12W 96E 96S

35W 10W 86E 120S

64W 36W 7W 84E 144S

70W 42W 15W 74E 168S

79W 68E 192S

80W 60E 216S

Area 44

86W 54E 240S

90W 58E 264S

96W 48E 288S

90W 50E 312S

54W 50E 336S

20W 52E 360S

12W 48E 384S

22W 44E 408S

52W 32E 432S

72W 26E 454S

124W 4E 480S

HIGHWAY

STUART

Coomalie Airfield

Bureau of Mineral Resources, Geology and Geophysics
Darwin, N.T. 1965
Major Grid T.E.P. Mine Grid

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PREVIOUS GEOLOGICAL WORK

Much has been written about the geology of the ore deposits of the Rum Jungle area. In 1956 a regional geological survey of the Darwin - Adelaide River area was made and the geology briefly described in a Record by E.J. Malone (1958). A series of 1" = 1 mile maps produced from the regional survey includes the Rum Jungle District Special Sheet. The nomenclature and stratigraphy accepted in the present investigation are based on information contained in the Darwin 1:250,000 Geological Sheet. Where considered necessary, modifications to the geology have been made.

A geochemical survey in the Rum Jungle area was made by A.D. Haldane and A.H. Debnam in 1958, and since 1961 successive radiometric, geological and geophysical surveys have been made of selected areas by personnel of the Bureau of Mineral Resources. (See "References"). Rhodes (1964) described the Rum Jungle Complex and established its relationship with the surrounding sediments.

An airborne magnetic and radiometric survey of the Rum Jungle District was made by the Geophysical Section of the Bureau of Mineral Resources (Daly 1957). Isolated first order radiometric anomalies occur within the Golden Dyke Formation in the Rum Jungle East area, with a single first order radiometric anomaly in Rum Jungle Triangle. A magnetic anomaly in the Triangle area coincides with an outcrop of hematite conglomerate in the Crater Formation.

DETAILS OF GEOLOGY

The geological succession comprises a series of sediments believed to be of Lower Proterozoic Age resting unconformably on the Rum Jungle Complex. The sediments are locally intruded by dolerite.

The following is the geological succession recorded in the areas:-

Superficial Deposits.
Basic Intrusives.
Acacia Gap Tongue.
Golden Dyke Formation
Coomalie Dolomite.
Crater Formation.
Rum Jungle Complex.
Banded Ironstone Formation.

BANDED IRONSTONE FORMATION.

In the northern part of Rum Jungle East area, banded ironstone crops out in several places on the western side of the Giant's Reef Fault within the area largely occupied by granite. Owing to its superior resistence to weathering the ironstone forms prominent outcrops. The outcrops are believed to be parts of remnant, undigested rafts within the granite mass. Contacts between ironstone and granite are diffuse but apophyses of granite intruding the ironstone illustrate the age relationships of the two rock types.

The banded ironstone is composed essentially of narrow seams rich in specular hematite, intercalated with medium textured argillaceous bands. Immediately west of the traverse line 0000NS, Rum Jungle East, the ironstone is contiguous with a compact flaggy quartzite band.

RUM JUNGLE COMPLEX.

The Rum Jungle Complex was described by Rhodes (1964). During the 1964 survey granite was observed only in the north-western edge of Rum Jungle East where traverse lines were extended across the Giant's Reef Fault line. The granites of this region are mainly the large felspar types described by Rhodes.

Anomalous radioactivity located by airborne radiometric surveys in the granites are considered to be due to zircon and/or monazite which were identified in heavy mineral concentrates prepared from specimens of granite.

CRATER FORMATION.

Rocks of the Crater Formation form a series of rocky ridges along the western margins of Rum Jungle East, curving from a northerly trend in the northern part of the area to an approximate westerly trend along the Batchelor road. A shield shaped mass of anticlinally folded Crater Formation rocks is cut off by the Giant's Reef Fault in the north-central part of the area.

In the Rum Jungle Triangle, Crater Formation rocks form a semi-circular segment in the south-eastern portion of the area.

The Crater Formation in both areas is predominantly arkosic in composition, the constituent minerals of the lower horizons being largely derived from the underlying granite. The succession includes argillaceous and semi-pelitic beds and at least three horizons of conglomerate which form prominent outcrops in various parts of the Rum Jungle area. The conglomerates are typically composed of well rounded quartz or banded ironstone pebbles and boulders cemented in a hematite or limonite rich matrix. One of these conglomerates marks the top of the Crater Formation in the southern part of the Rum Jungle Triangle. Where the Crater Formation boundary swings away to the east, a wedge shaped body of arkosic sediments separates this conglomerate horizon from the Coomalie Dolomite.

Radioactivity recorded in the Crater Formation rocks has been ascribed to the presence of thorianite. Dallwitz, in an Appendix to Mackay (1953) states, with reference to a conglomerate bed at Crater Prospect: "The conclusion tentatively drawn from the observed data is that the radioactivity of the sample is due to the presence of detrital radioactive minerals. Zircon, xenotime and monazite have been observed... these minerals can contain both uranium and thorium". The writers agree that a certain amount of the radioactivity can be traced to zircon and monazite as is the case in the underlying granites.

Between traverses 62N and 138N in the Rum Jungle Triangle area, the quartz hematite conglomerate is the source of a magnetic anomaly up to 10,000 gamma intensity. Hand specimens from this area are noticeably magnetic, but magnetite cannot be separated from a crushed sample of the rock. The specular hematite of the matrix must therefore contain magnetite, since hematite itself is not sufficiently magnetic to account for the observed anomaly. The outcrop width of the conglomerate is not sufficient to account for the magnitude of the anomaly which would require a body at least 200 feet in width. Therefore over the anomaly area at least, it is inferred that the conglomerate thickens with depth.

Quartz veins occur in the Crater Formation rocks mainly as infillings on shear and joint planes. In the central part of Rum Jungle East some of the quartz veins contain tourmaline. A small quartz-tourmaline vein about two and a half miles east of Batchelor township was mined for its gold content. The digging was known as the "Shirley Mine".

COOMALIE DOLOMITE.

In the north-eastern corner of Rum Jungle East area, Coomalie Dolomite is folded around a core of Crater Formation rocks; the northern half of the structure is cut off by the Giant's Reef Fault. In the southern section of the area the dolomite swings from an approximately northerly alignment around the nose of an easterly plunging anticline. The dolomite occupies the south-eastern portion of the Rum Jungle Triangle area.

The Coomalie Dolomite includes coarse-textured whitish to pale pink biohermal limestone, medium to fine-textured dark grey calcilutite and in the Rum Jungle Triangle area, bands of black shale. The calcilutite is predominantly calcareous but includes up to ten percent of clay minerals, and in places contains patchy sulphide mineralization including pyrite, pyrrhotite and rarely chalcopyrite. The black shale contains little carbonate and generally resembles carbonaceous shale of the Golden Dyke Formation. At least one of the black shale bands occurs near the base of the formation.

Close to the top of the Coomalie Dolomite in the Rum Jungle Triangle, and to a lesser extent in Rum Jungle East, are bands of tremolite schist, which are generally heavily silicified and frequently associated with laterite. It is probable that the tremolite schist occurs elsewhere in the Coomalie Dolomite but only some bands are preserved as outcrops by silicification near the Golden Dyke Formation contact.

GOLDEN DYKE FORMATION.

Throughout the areas mapped, rocks of the Golden Dyke Formation exhibit abrupt facies changes and lenticularity of bedding. In the Rum Jungle East area they form a broad zone of variable blue-grey siltstone, quartzite, and shale, locally mineralized with sulphides. Microscopic examination reveals that the siltstone ranges from fine textured highly micaceous rock to medium textured varieties composed typically of interlocking quartz grains with small interstitial flakes of muscovite and chlorite. The blue/grey colour is due to the presence of fine grains of iron oxide. No recognisable graphite or clay minerals are present in specimens of the siltstone examined. Rare lenses of impure limestone and black carbonaceous shale are locally present as minor intercalations.

In the Rum Jungle Triangle area, the Golden Dyke Formation consists mainly of black carbonaceous and chloritic shale, laminated greywacke and quartz sericite schist. Bands of black shale yield low-order electromagnetic anomalies and to a lesser extent geochemical anomalies.

In general rocks of the Golden Dyke Formation have been more resistant to erosion than those of the Coomalie Dolomite and consequently occur closer to the surface.

ACACIA GAP TONGUE.

The Acacia Gap Tongue is identified with the Masson Formation and occurs as an arenaceous facies within the Golden Dyke Formation. It comprises a series of compact quartzite, sandstone and shale, often rich in pyrite.

Areas known to be occupied by rocks of the Acacia Gap Tongue were not auger drilled.

BASIC INTRUSIVES.

In the north-eastern portion of Rum Jungle Triangle area, a low hill known as Dolerite Ridge is composed of dolerite. Thin sections of the dolerite show no signs of metamorphism and it seems probable that intrusion took place subsequent to the phase of regional metamorphism which affected the sediments. There is however a possibility that the dolerite bodies were sufficiently large to withstand the effects of metamorphism.

On the western bank of the Finniss River, two amphibolite bodies were located during the auger drilling program. These amphibolite bodies may be altered dolerite lenses too small to withstand metamorphism, or they may be lenses of semi-calcareous to argillaceous composition altered by regional metamorphism to their present composition.

SUPERFICIAL DEPOSITS.

The Rum Jungle area landscape is one of subdued mature topography characterised by gently undulating hills and infilled valleys. Most of the area is covered by a mantle of superficial deposits derived from underlying rock. The depth of soil varies from a few inches to more than eighty feet. Typical profiles are described in Table 1.

The origin of the ferruginous quartz sand of the B horizon overlying Coomalie Dolomite is problematic; either the remarkably well-rounded quartz grains are residual from weathering of the dolomite or they are aeolian deposits infilling pre-existing depressions during an arid erosional cycle. Microscopic examinations of a few thin sections of dolomite failed to reveal the presence of well-rounded quartz grains, but it is possible that such grains were originally included in some parts of the Coomalie Dolomite.

STRUCTURAL GEOLOGY

FOLDING.

No detailed structural work was possible during the survey, and the following remarks on folding in the areas mapped are based largely on the observed trend of the geological boundaries. In the Rum Jungle East area, the major structures appear to be simple folds about N-S axes, swinging to a westerly trend in the southern part of the area in conformity with the granite boundary.

The Rum Jungle Triangle area presents a more complex picture; in the northern and southern sectors, strikes are approximately northerly but towards Area 55 and the "Embayment" area, geological boundaries swing to the east in a synclinal fold of some complexity.

In the southern sector a N-plunging lineation defined by "stretched" quartz pebbles in the quartz hematite conglomerate horizon in the Crater Formation indicates that the principal fold direction is northerly. The easterly trending synclinal fold is interpreted as evidence for a second phase of deformation. Williams (1963) postulates three phases of deformation F1, F2 and F3. At Rum Jungle Creek South uranium mineralisation has been found to be concentrated in F1 cleavage planes, suggesting introduction of uranium at the same time as this deformation. F1 and F2 have gently plunging fold axes, the F3 axis is steep. In Area 55, Williams showed that B3 lineations plunge steeply to the north, that is, coincidently with the direction of the 'stretched' pebbles of the Crater Formation farther to the south. Williams considers that F1 and F3 folds have been responsible for the main configuration of the competent granite outline. It is possible then that in Rum Jungle East the N-trending folds subparallel to the granite boundary are F1 structures and the greater

complexity in the Triangle Area is caused by interference due to F3 cross folds.

FAULTING.

The north-easterly trend of the Giant's Reef Fault defines a major fault direction in both the Rum Jungle East and Rum Jungle Triangle areas. Several smaller faults trend sub-parallel to it, but display only small displacements, which are nevertheless generally in the same direction as the Giant's Reef movement, that is, north block east.

In the Rum Jungle East area, a northerly trending fault cuts off the Coomalie Dolomite between traverses 168S and 192S, and apparently cuts off part of the western limb of the Acacia Gap Tongue syncline to the north. Its presence accounts for the proximity of Crater Formation rocks to the Acacia Gap Tongue in this locality, and hence the movement is west block upwards, the amount of movement decreasing from north to south.

In the Rum Jungle Triangle area, the trace of the Giant's Reef Fault is generally indicated by brecciated quartz on the surface, even where there is a deep mantle of soil.

The area of closest faulting coincides with the area of closest folding in the vicinity of Area 55, supporting Williams' (1963) contention that the Giant's Reef period of faulting is related to the F3 folding. The north-easterly trending faults which displace the Coomalie Dolomite - Golden Dyke Formation boundary between 162N and 198N appear to trend into a zone of close faulting mapped by Ruxton and Shields (1963b).

A N-E trending fault displaces the Coomalie Dolomite - Golden Dyke Formation boundary some 2700 feet to the north-east at traverse 122N and may account for much of the apparent thickening of the Coomalie Dolomite to the north of the fault. The Giant's Reef Fault at traverse 210N is demarcated by a broad zone of silicification and brecciation at the junction with this fault. There is some evidence that the intersecting fault continues to the east of the Giant's Reef Fault without mutual displacement.

The southern-most fault in the area is postulated because of the termination of an electromagnetic anomaly marking the Coomalie Dolomite - Golden Dyke Formation boundary, and is supported by some field evidence.

There is some additional evidence of faults or shear zones from electromagnetic contours; a pronounced Slingram real component anomaly coincides with brecciation observed near the Coomalie Dolomite - Golden Dyke Formation boundary where it crosses Rum Jungle Creek in Area 55B. The anomaly extends north-eastwards, parallel to the regional trend, and may represent an extension of the Main Shear in the Embayment Area. There is strong surface evidence of faulting along this trend on the road to Mt. Fitch.

Electromagnetic anomalies also delineate the Giant's Reef Fault over much of its length.

No evidence was found to support the existence of the inferred Mt. Fitch Fault. There was no lithological change at the position where the Mt. Fitch Fault is plotted on the Rum Jungle District Special Sheet, and no geophysical indication of its presence.

MINERALISATION

The brief description of uranium and base metal mineralisation which follows includes information provided by Messrs. R. Spratt and D. Berkman, geologists, Territory Enterprises Pty. Ltd.

URANIUM.

Uranium mineralisation is confined to the Golden Dyke Formation, concentrated in carbonaceous or chloritic shale near the contact with Coomalie Dolomite. B.P. Walpole (unpublished report) and later P.F. Williams (1963) considered the uranium to be of syngenetic origin and drew attention to the stratigraphic control of the distribution of uranium. Williams explained the prevalence of pitchblende concentrations in S1 cleavage planes and joints as the result of remobilization of the syngenetic ore. Secondary enrichment is believed to have been strongly influenced by structural control.

BASE METALS.

The common association of base metal and uranium minerals suggests a common origin. The separate occurrence of base metal and uranium mineralisation, apparent in some areas, may be a reflection of the comparative ease of mobilization of uranium.

The association of base metals present in the various mines of the Rum Jungle area is not consistent. At White's open cut mine, lead overlies copper stratigraphically, while cobalt and nickel occur either in association with the copper or lead, or separately. At Brown's mineralized area, copper occurs with lead while cobalt displays variable distribution. Zinc tends to be prevalent in the western part of Browns, becoming progressively less abundant eastward. Analyses of the samples collected from the auger drill holes in the Rum Jungle East and Rum Jungle Triangle areas during the 1964 survey indicate an association between copper, zinc, cobalt, and nickel, but lead rarely showed any distribution relation with the other metals.

Although high metal values were obtained from some auger drill cutting samples, ore minerals were rarely recognised. It is suggested that the metals are absorbed in an ionic state by clay minerals.

AUGER DRILLING

The auger drilling program consisted of drilling 3664 holes, in the two areas ranging in depth from 5 to 60 feet, and averaging 17 feet. Drill holes were sited 200 feet apart on east-west traverse lines spaced at intervals of 2400 feet in the Rum Jungle East area, and 400 feet in the Rum Jungle Triangle area. As far as time and available footage allowed, the auger holes were drilled to identifiable weathered rock. In certain regions, particularly those occupied by Coomalie Dolomite the thickness of soil or the presence of quartz gravel prevented penetration to this level.

Samples for analysis were collected from auger drill cuttings lifted from the bottom of each hole. In addition, a sample was taken at each 3 foot interval for lithological logging of the holes. The bottom hole samples were analysed by optical emission spectrograph for copper, zinc, lead, cobalt, nickel, molybdenum, and in certain traverses in Rum Jungle Triangle area, for bismuth.

Each auger hole was radiometrically probed, using Harwell type 1368A ratemeters, values being recorded at one foot intervals. Unusually high values were reprobed after completion of the drilling program, some "anomalies" thereby not being substantiated. For the purpose of plotting results on the radiometric maps, the highest value from each auger hole was selected and converted to mR/Hr, using separately derived conversion tables for each ratemeter. Thus instrument variation was eliminated as far as possible. In the latter stages of the program a special 3-tube probe was used which read directly in mR/Hr; this proved to give the most consistent and reliable readings.

GEOCHEMICAL SURVEY

Samples collected from the auger holes were analysed at the Australian Mineral Development Laboratories for the metals mentioned above, and the results plotted as profiles at a scale of 1" = 1000' in the Rum Jungle East area, and as contours at 1" = 400' in the Rum Jungle Triangle area. The values used for contouring were determined by a statistical analysis.

RADIOMETRIC RESULTS

The highest radiometric value recorded in each hole was plotted, after conversion to mR/Hr, on maps at the same scales as used for the geochemical data, in the Rum Jungle East and Rum Jungle Triangle areas. Again profiles were used in the former case and contours for the latter, after determination of significant values by statistical analysis. In both areas surface radiometric surveys were carried out concurrently by the 1964 Geophysical Party, (Ashley 1965), (Duckworth 1965).

Radiometric results are more susceptible to variation with depth than are geochemical values, so that the technique of selecting the highest value in each hole has obvious limitations. In order to distinguish superficial anomalies (e.g. those associated with laterite) from deep seated ones, holes at which anomalous values increase significantly with depth are marked with an arrow; however this may not be a necessary condition for the existence of an ore body, as Ruxton and Shields (1963a) showed that radiometric values over the Rum Jungle Creek South mine, are fairly constant with depth, showing a marked peak only at the soil/rock interface.

STATISTICAL ANALYSIS OF GEOCHEMICAL RESULTS

Cumulative frequency plots of the geochemical analysis results have been made for the seven metal ions tested for in this survey, following the method outlined by Tennant and White (1959) and adopted for the Rum Jungle area by Ruxton and Shields (1963a) and Pritchard (1964a). The purpose of the plots was threefold:

(1) To distinguish anomalous and background population, in order to determine suitable levels for contouring.

(2) To compare anomalous values with those arrived at by Pritchard (1964a) in the Rum Jungle Copper Mine area.

(3) To evaluate differences in base metal distribution, if any, between the Coomalie Dolomite and Golden Dyke Formation.

Results were accordingly divided into those from the Rum Jungle East and Rum Jungle Triangle areas; the latter were further subdivided into those from the Coomalie Dolomite and those from the Golden Dyke Formation. The results of the statistical analysis are summarised in Table 2 and plotted on Figures 2 and 3. Tennant and White claim that geochemical data generally tend to be distributed log normally, and that, therefore, single distributions should fall on straight lines when a cumulative frequency curve is plotted on logarithmic probability paper. If two populations are present (e.g. in the case of background and anomaly) this will be reflected by an inflexion of the curve, ideally by a steepening in that part of the distribution curve in which few values occur. However, such a trend may be modified or even obliterated by such factors as deviation from log-normality, or the presence of several overlapping background populations.

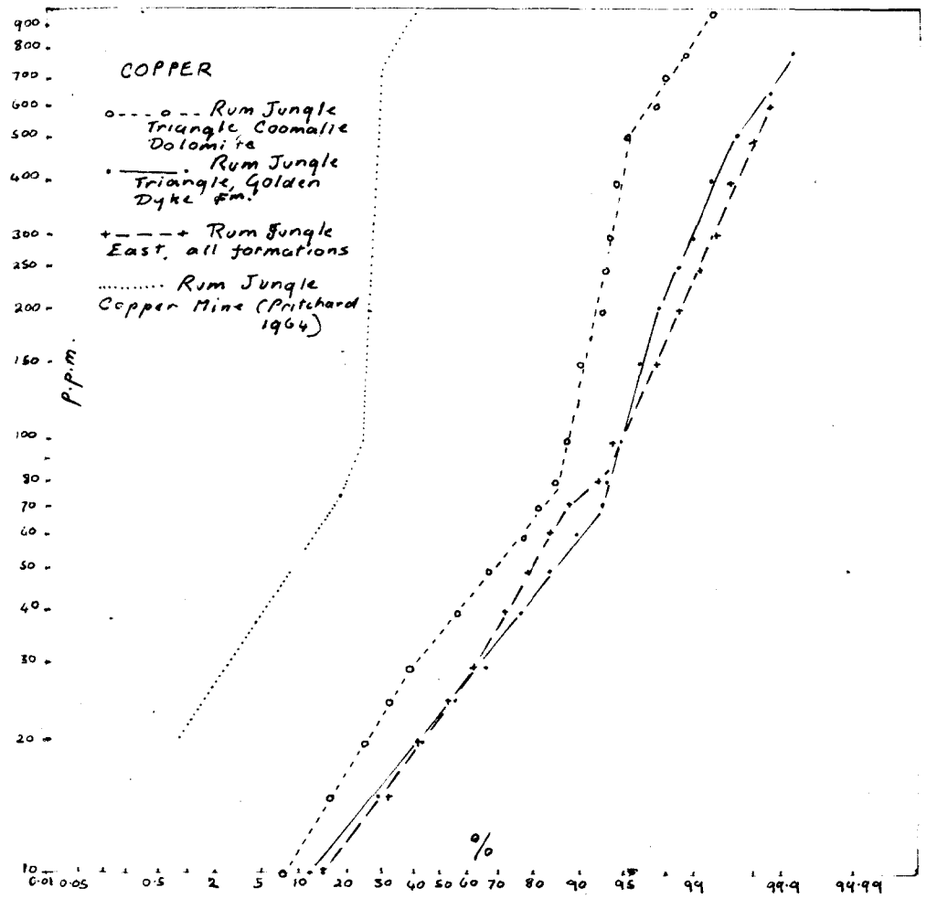
It should be pointed out that even in the ideal case the precise limits of "background" and "anomaly" cannot be deduced from the frequency plots since the steep part of the plot represents a combination of the two populations. For example, in the case of copper (see Fig 2) the upper limit of the background is at neither 80 nor 500 p.p.m., but somewhere between those values. All that can be said concerning these values is that areas enclosed by the 500 p.p.m. contour are anomalous, and those outside the 80 p.p.m. contour are merely background values.

RESULTS OBTAINED.

(a) Rum Jungle Triangle.

The cumulative plots for the various metal ions show little difference between the Golden Dyke and Coomalie Dolomite distributions, suggesting that the geology has not greatly influenced metal distribution. This is partly due to the fact that the existing anomalies tend to straddle or lie close to the Coomalie Dolomite - Golden Dyke boundary, so that anomalous values are distributed between the two formations. The position of the anomalies demarcated west of the Finniss River may be influenced by down-slope transport from Golden Dyke rocks to the Coomalie Dolomite.

The background and anomalous ranges are summarised in Table 2. While these are derived from the cumulative plots, it has been necessary in most cases to select what appears to be the most likely of a number of possible interpretations. The only metal which shows the "idealised" background and anomaly distribution is copper (see Fig 2). Pritchard's (1964a) results from the Rum Jungle Copper Mine are shown on the same figures; the parallelism of the two curves is striking, although Pritchard interprets the upper, rather than the lower of the two inflexions as the threshold value.



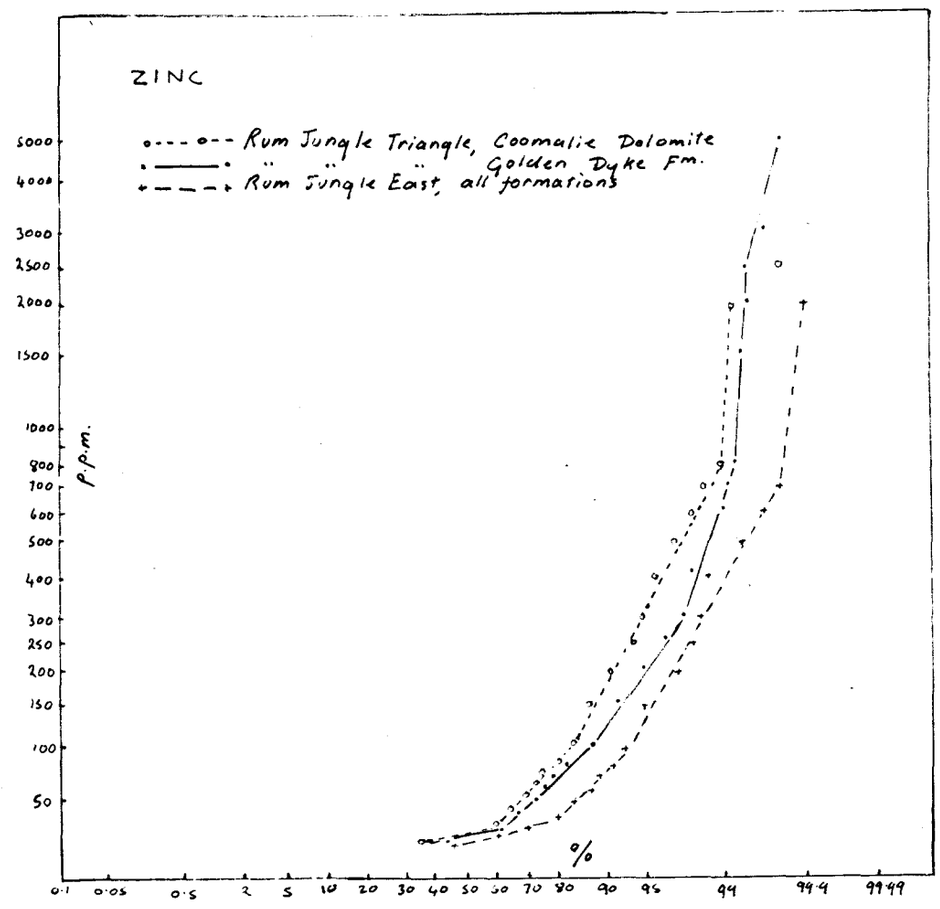
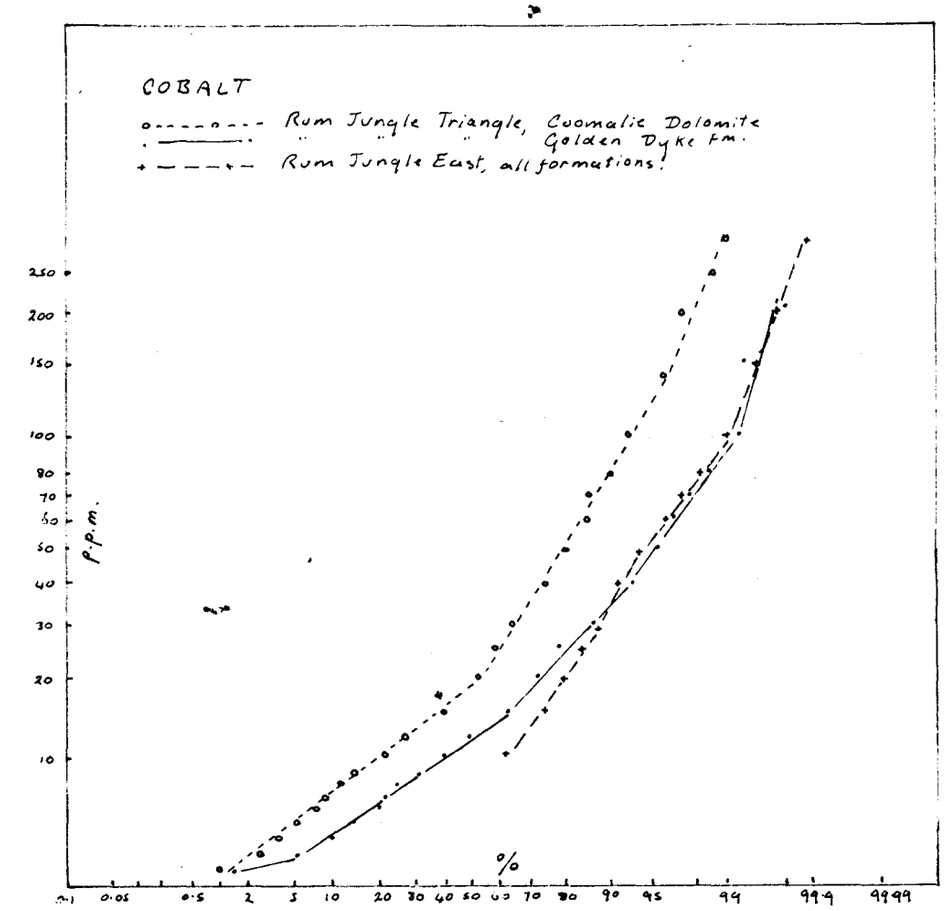


FIG. 2

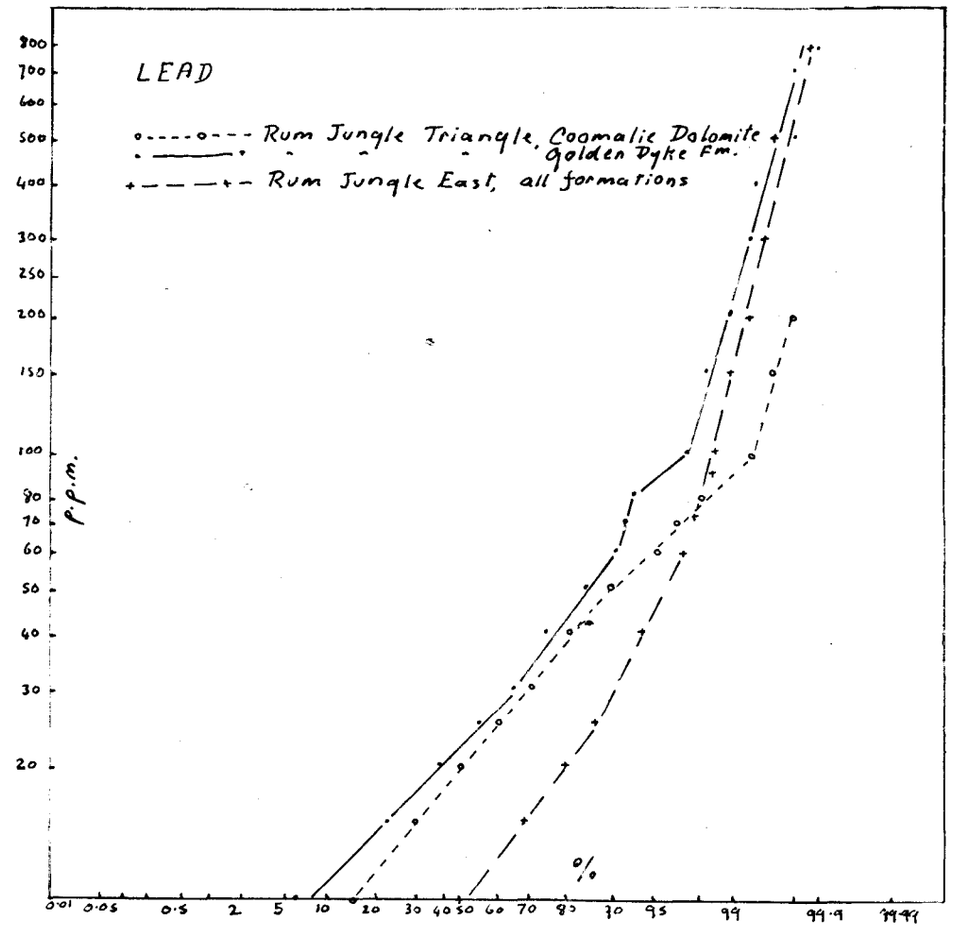
CUMULATIVE FREQUENCY PLOTS FOR COPPER, ZINC, NICKEL AND COBALT



To accompany Record 1965/254

D52/A4/98

H206



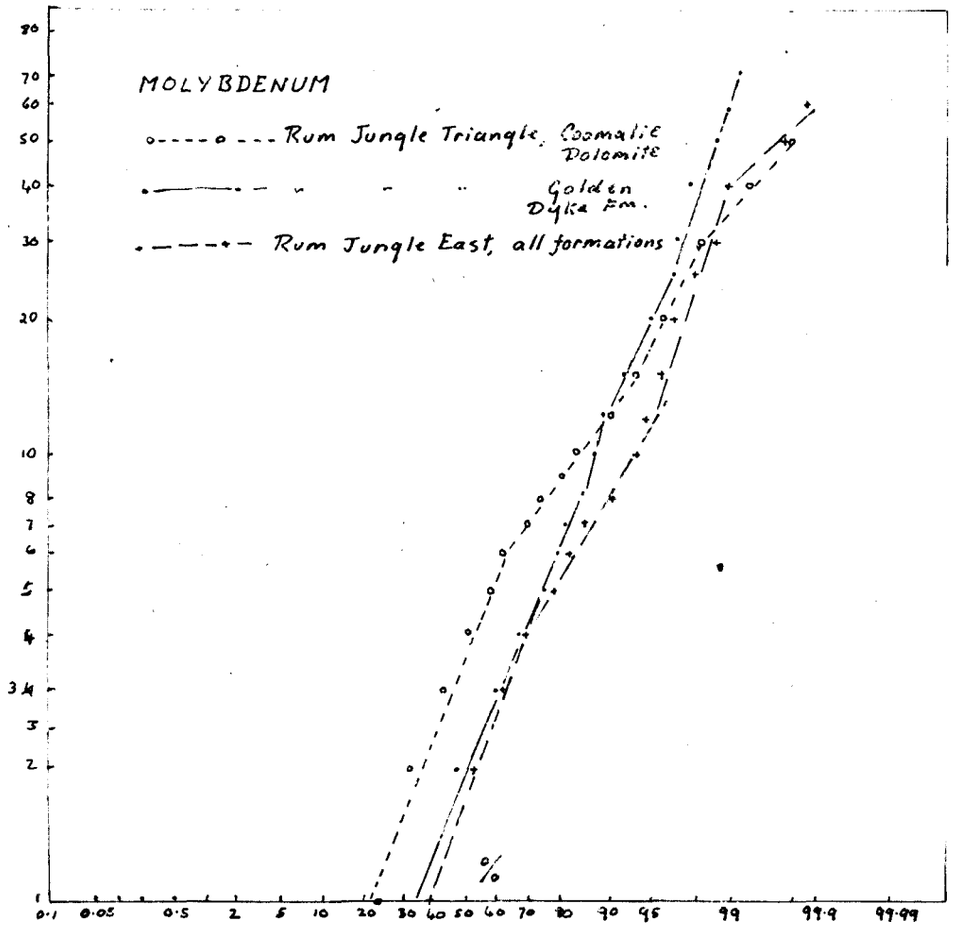
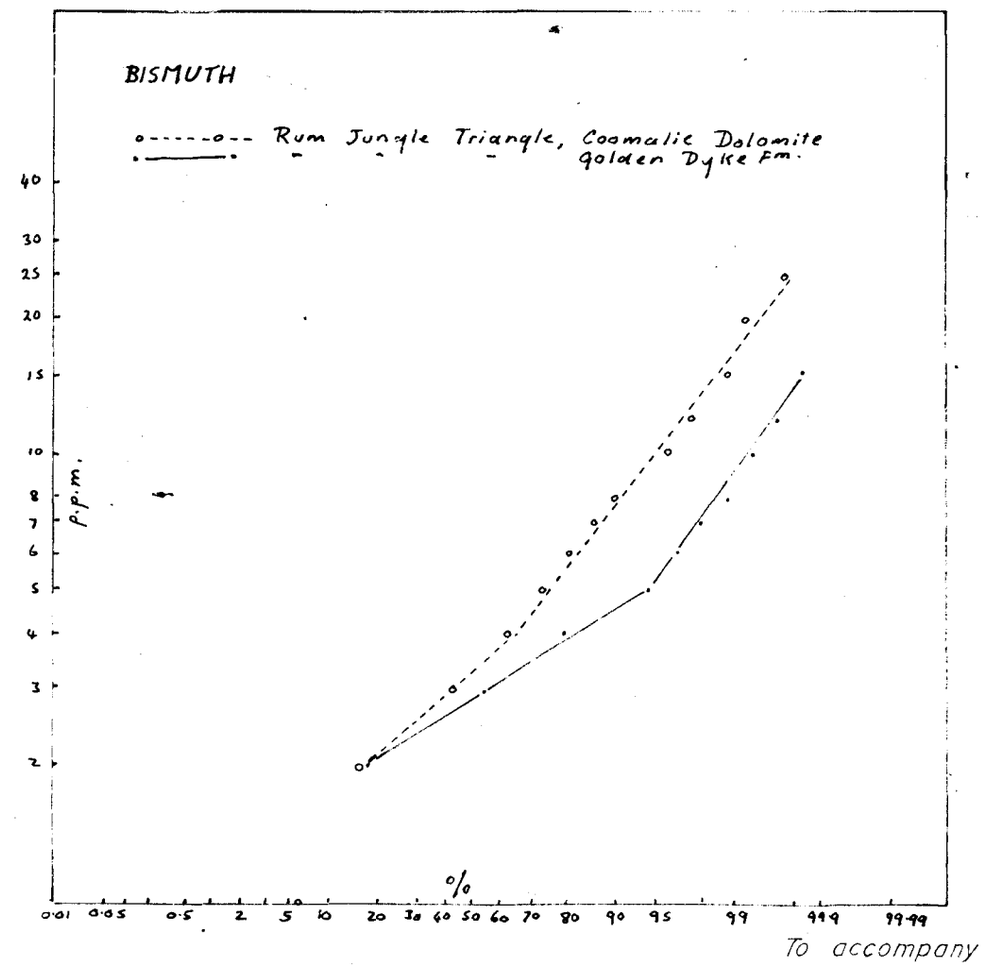
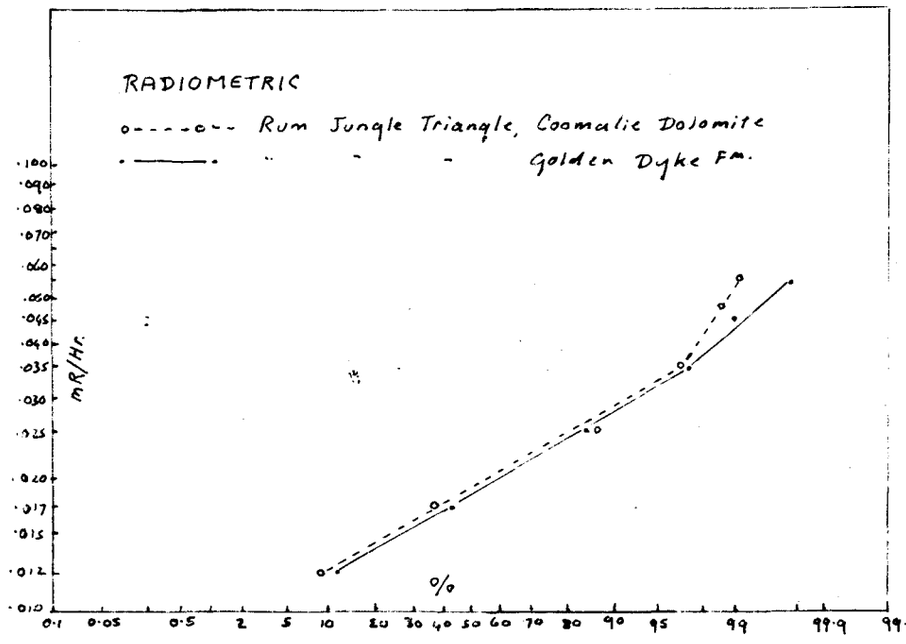


FIG. 3

CUMULATIVE FREQUENCY PLOTS FOR LEAD, MOLYBDENUM, BISMUTH AND RADIOMETRIC VALUES.





To accompany Record 1965/254

D52/A4/99

H207

(a) Rum Jungle Triangle (Cont'd)

The appearance of the distribution curves of the remaining metals suggests either (i) departure from log-normality, or (ii) the existence of several overlapping background populations. In most cases there is a progressive steeping of the cumulative curves after each inflexion.

(b) Rum Jungle East.

The metal distributions in the Rum Jungle East area tend to parallel fairly closely those of the Rum Jungle Triangle. Lower overall values are recorded for copper and zinc; as the highest copper value recorded is 750 p.p.m., it is considered that there are few significant copper anomalies. The background and anomalous values of the other metals are, with minor variations, similar to those in the Triangle area.

DISTRIBUTION OF BASE METALS.

(a) Background.

Table 3 shows average background values for shale, limestone, black shale and soil, as given by Hawkes and Webb (1962, pp. 359-377). Comparison with the background values calculated for the Rum Jungle area (see Table 2) shows that, with the exception of cobalt, all the metals fall within or close to the ranges given for shale, black shale and soil. They are, however, considerably higher than the stated average values for limestone. This may be accounted for when it is remembered that in the Rum Jungle area the Coomalie Dolomite generally has a deep covering of superficial material so that few samples were actually taken from weathered limestone. It seems likely, therefore, that concentration has occurred in the soil over the Coomalie Dolomite. Such factors could also account for the apparent diversity of background populations revealed by this analysis.

A special case in which values are obviously not related to bedrock is that of river alluvium. This is generally a stiff yellowish clayey sand, devoid of visible organic matter, and shows low geochemical values. These sediments may have been leached.

(b) Anomalous Population.

The two anomalies shown on the geochemical maps in the Rum Jungle Triangle are close to the Golden Dyke - Coomalie Dolomite boundary, with the greater part of their extent over Coomalie Dolomite. This may be accounted for by the fact that the anomalous areas lie downslope from the boundary between the two formations. Mechanical transport of colluvial materials may therefore have displaced the anomalies towards the Coomalie Dolomite. Furthermore, the tendency of calcareous soils to inhibit mobility of metal ions, may allow wider dispersal of the metals in the Golden Dyke argillites than in the Coomalie Dolomite carbonates, tending to give more sharply defined anomalies in the Coomalie Dolomite.

ANALYSIS OF RADIOMETRIC RESULTS

A statistical plot of radiometric results was carried out in the Rum Jungle Triangle area for the Golden Dyke Formation and Coomalie Dolomite in the same manner adopted for the geochemical results. (See Fig. 3). There is no appreciable difference between plots for the two lithologic units, each showing a break at .035 mR/Hr.

ANALYSIS OF RADIOMETRIC RESULTS (Cont'd)

This value is adopted as the threshold anomaly value. Contours are shown for the Rum Jungle Triangle (Plates 28-31) and profiles for Rum Jungle East (Plates 32-34). The values .020, .030, .040 etc. were found to be the most suitable for contouring to illustrate anomalous radioactivity.

Conclusions.

It is evident from the foregoing that the figures 100 and 500 p.p.m. can be related to background and anomalous copper values. These figures agree well with those found by Pritchard (1954a) at the Rum Jungle Copper Mine.

The other metals apparently follow approximately log-normal distributions, but appear to exhibit several overlapping background populations. Further work will be required to elucidate the threshold values for these metals, and those proposed must be regarded as tentative.

RESULTS

(a) GEOCHEMICAL.

In the Rum Jungle East area, the 2400 ft. spacing of traverses is too wide to enable any anomalies to be delineated. However, certain peaks of high values which are repeated in adjacent traverses point to areas of interest which require closer geochemical sampling, and, equally important, areas which are apparently barren of mineralisation are indicated.

In the Rum Jungle Triangle, the contours show discontinuous areas of anomalous copper, zinc, cobalt, and nickel lying close to the Golden Dyke Formation - Coomalie Dolomite boundary between traverses 78N and 202N. The highest values recorded occur between traverses 174N and 190N.

Thirteen samples taken from auger drill cuttings of sericitic schist and tremolitic schist within the main anomaly area were collected some weeks after the original drilling and submitted for petrological examination. I.R. Pontifex described the mineralogical content of these auger cuttings; their composition indicated the parent rock from which the clays were derived (See Appendix 1).

Emission spectrograph tests on material from the main anomaly carried out by the Petrological section, Bureau of Mineral Resources, Canberra, gave considerably lower values than the original analyses made at the Australian Mineral Development Laboratories. (See Appendix 2).

It seems likely that the discrepancies are caused by difference in calibration of the two spectrographs, although a certain amount of leaching of metal ions may have occurred in the interval during which samples for the second set of analyses were exposed to the effects of rainwater. Only the results from A.M.D.L. have been used in contouring; the two sets of results illustrate the dangers inherent in using results from different sources.

(b) RADIOMETRIC.

In the Rum Jungle East area a number of peaks of moderate radioactivity (i.e. greater than .040 mR/Hr) were recorded in holes in which radioactivity increases with depth. As in the case of the geochemical data, the traverse spacing is too wide for anomalies to be delineated, but in certain cases adjoining traverses display high values. To a certain extent radiometric anomalies tend to be associated with geochemical highs, but this is by no means a rigorous association. A radioactive peak of .060 mR/Hr on traverse 408S near the Coomalie Dolomite - Golden Dyke Formation boundary, previously recorded by airborne ratemeter, is possibly the most promising of the radiometric anomalies, although any of the anomalous areas shown on Plate 34 may be of interest.

In the Rum Jungle Triangle area the contouring reveals a number of localised low-order anomalies. The most intense of these is a .124 mR/Hr anomaly, recorded at a depth of 7 feet in an 11 foot hole at 186N 100E situated at the Coomalie Dolomite - Golden Dyke Formation contact and coinciding with part of the main copper - zinc - cobalt - nickel anomaly. A series of four additional holes were drilled 100 feet from this hole on the N-S and E-W traverse lines to depths of between 35 feet and 41 feet. Probe results of these additional holes proved disappointing, the highest radiometric value in any of the holes being .035 mR/Hr. No surface radioactivity was associated with this feature. Another highly localised peak of .060 mR/Hr at 122N 96E with an associated surface anomaly, coincides with the southern copper anomaly.

A fairly broad anomaly with a peak of .060 mR/Hr coincides with the upper boundary of the Crater Formation immediately east of the Finniss River between traverses 146N and 158N. A surface anomaly coincides with it.

As in the Rum Jungle East area, any of the small anomalies scattered throughout the area may be significant. Only those greater than .050 mR/Hr are shown on Plate 1.

SUMMARY OF ANOMALIES

The following table lists the geochemical, radiometric, electromagnetic, and magnetic anomalies considered to be of greatest interest in the Rum Jungle East and Triangle areas. In selecting these, not only the magnitude but also the areal extent and persistence, stratigraphic position, and association with other types of anomaly have been considered. Plates 1 and 2 illustrate these and other anomalies, the numbers on the maps coinciding with those used in the text.

TABLE 4

Summary of Anomalies in Rum Jungle East.

No.	Location	Type and Value	Remarks
(1)	72S 58E to 216S 40E.	Pb-Zn, subsidiary Ni-Co, with low order radiometric anomalies between 72S and 120S. Highest values at 120S 36E: - Pb 10,000 p.p.m., ZN 2,000 p.p.m., Co 100 p.p.m., Ni 150 p.p.m., Cu 250 p.p.m., radiometric .041 mR/Hr.	A well defined zone in the Golden Dyke Formation, possibly coinciding with a stratigraphic horizon, or localised by an anticlinal axis.
(2)	192S 52W to 240S 60W.	Pb 700 p.p.m., Zn 600 p.p.m.	Coincides with Golden Dyke - Coomalie Dolomite boundary.
(3)	192S 72W	Ni 200 p.p.m., Co 150 p.p.m., (Cu 400 p.p.m.)	In Crater Formation.
(4)	408S 30E.	Ni 200 p.p.m. Co 100 p.p.m. Pb 150 p.p.m. (Zn 250 p.p.m.) Radiometric to .060 mR/Hr.	In Golden Dyke Formation, close to Coomalie Dolomite boundary, and coincides with the axis of a Slingram trough. Possibly extends south along a parallel trend to 480S and may be associated with anomaly (5) and (8).
(5)	312S 36E to 360S 46E.	Radiometric to .074 mR/Hr.	In the Golden Dyke Formation, coinciding with a Slingram high axis in an area of generally low Slingram values. Coincides with a surface anomaly. May be correlable with the radiometric anomaly on 408S.

No.	Location	Type and Value	Remarks
(6)	432S to 480S.	Generally high Cu, Ni and Zn. High radiometric values on 480S.	A generalised zone of anomalies in the Coomalie Dolomite. Cu and Ni close to the lower boundary, Zn and Ni close to the upper boundary of the Coomalie Dolomite.
(7)	240S to 264S, 20E to 20W.	Electromagnetic (Slingram and Turam).	Probably a shallow feature of unknown significance. Close to, but not coincident with, a limestone horizon and some Pb anomalies. Possible shear zone?
(8)	456S. 12E to 16E.	Cu 500 p.p.m. Zn 300 p.p.m. Co 100 p.p.m.	In the Golden Dyke Formation, and possibly associated with (4).

TABLE 5.

Summary of Anomalies in Rum Jungle Triangle.

No.	Location	Type and Value	Remarks
(1)	174N 198N. W. of Finniss River.	Cu 1000 p.p.m. Zn 3000 p.p.m. Ni 5000 p.p.m. Co 400 p.p.m. Radiometric anomalies of .124 mR/Hr and .055 mR/Hr.	In the Coomalie Dolomite, close to the Golden Dyke boundary. The .124 mR/Hr anomaly lies slightly to the west, the .05[illegible] mR/Hr anomaly coincides with the main geochemical anomaly. No E.M. anomalies associated.
(2)	110N to 126N.	Cu 1500 p.p.m. Zn 800 p.p.m. Ni 2500 p.p.m. Co 400 p.p.m. Radiometric.	Close to Golden Dyke Coomalie Dolomite boundary. Some dispersion of values to the South. No E.M. anomalies associated.
(3)	170N to 174N.	Zn 700 p.p.m. Co 200 p.p.m.	Coincide with Crater Formation - Coomalie Dolomite boundary.
(4)	62N to 138N.	Magnetic to 10,000 gammas.	In Crater Formation, coinciding with the quartz-hematite conglomerate horizon.

CONCLUSIONS

In the Rum Jungle East area, lead - zinc with associated radiometric anomalies are prominent in the Golden Dyke Formation in the central part of the area and are possibly stratigraphically controlled, (Anomaly 1). High radiometric, copper, nickel and zinc values occur in the Coomalie Dolomite calcilutite to the south, (Anomaly 6). This is a somewhat different lithology from most other parts of the Rum Jungle area in which the Coomalie Dolomite is generally unmineralised. However, the area of best promise appears to be on Anomaly 4, traverse 408S, and in the associated zone of low electromagnetic values in the Golden Dyke Formation in the southern part of the area.

In the Rum Jungle Triangle area, the main anomalies are situated close to the Coomalie Dolomite - Golden Dyke Formation contact. Anomalies (1) and (2) in Table 5 appear to be similar in nature, both being adjacent to this boundary and showing anomalous Cu, Zn, Co and Ni. In both cases restricted radioactive anomalies appear to be associated with the base metal anomalies. The absence of any electromagnetic disturbance associated with these anomalies suggests that the Slingram and Turam methods may not always be reliable guides to mineralisation. Possibly the base metal mineralisation, if present, is too deep-seated to be detected by E.M. methods.

RECOMMENDATIONS

In the Rum Jungle East area, (1) the moderate radiometric peak encountered on Traverse 408S (anomaly (4)) warrants detailed testing by probing of deep auger drill holes spaced at 50 ft. intervals on a grid around the Golden Dyke Formation - Coomalie Dolomite contact. The grid should be planned to cover an area of about 200 feet E-W and 400 feet N-S. Alternatively, if stratigraphic information in the Golden Dyke Formation is required, a line of four diamond drill holes totalling 2000 feet spaced along traverse 408S could be drilled. These would test almost the whole thickness of Golden Dyke Formation and would, of course, also test the electromagnetic, radiometric, and geochemical anomalies. In any case, the auger drilling would probably provide targets for future diamond drilling.

(2) Auger drilling on a 200 x 400 feet grid to test the linear zone of geochemical anomalies between 72S and 144S.

(3) A program of deep auger holes to test the Turam and Slingram anomalies listed under (7) in Table 4.

(4) Closely spaced auger holes centred around traverse 456S 12E-16E, to test anomaly (8).

In the Rum Jungle Triangle, anomalies (1) and (2), (Table 5), may be tested by deep auger drilling on a grid encompassing the centres of the anomalies between traverses 194N and 202N, 174N and 190N, and perhaps 110N and 126N. The .124 mR/Hr radiometric anomaly centred at 186N, 00E and its extensions, should also be tested by drilling on a 50 foot grid between traverses 172N and 194N. These holes should be drilled as deep as possible, and radiometric and geochemical results should determine whether diamond drilling is warranted to test possible deep underlying mineralisation.

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APPENDIX 1

MINERALOGICAL EXAMINATION OF AUGER SAMPLES

BY

I.R. PONTIFEX

(The following is extracted from Report No. 2, File 167NT/1 dated 26th January, 1965).

Mineralogical Examination.

Each *sample was washed and examined under a binocular microscope; the type and abundance of the rock fragments were noted. The following three samples were found to be generally representative of the whole batch.

198N 100E (in 5000 ppm. Zn contour A.M.D.L. analysis). Sericitic schist

Components	Approximate %
Mica flakes and fragments of mica schist	75
graphite	8
talc	5
tourmaline	5
fragments of ferruginous sericite schist	5
fragments of quartz and Fe-Si rich fragments	5

190N 114E (in 500 ppm. Cu contour A.M.D.L. analysis). (Tremolite schist)

Component	Approximate %
Tremolite, commonly iron stained	85
siliceous fragments	10
hematised siltstone	5
graphite	3

186N 112E (in 500 ppm. Cu, 250 ppm. Zn contour. A.M.D.L. analysis). (Tremolite schist)

Component	Approximate %
Iron impregnated clay fragments with fine tremolite and quartz.	65
Quartz fragments, some cherty	20
Rounded ferruginous pebbles with Fe-Si polished weathered crust	10
graphite	3
tourmaline	accessory

No copper or zinc minerals were found in these *three or in any other samples.

*13 samples were examined.

Lithological names by the authors

APPENDIX 2

SPECTROGRAPHIC ANALYSES

Optical emission spectrograph analyses of thirteen auger samples from Rum Jungle Triangle by both Australian Mineral Development Laboratories and Bureau of Mineral Resources laboratories are available. Values determined by B.M.R. are invariably lower than A.M.D.L. values. Results for the two samples below are typical.

	Sample 190N 114E		Sample 178N 110E	
	B.M.R.	A.M.D.L.	B.M.R.	A.M.D.L.
Ni.	100	500	1500	5000
Co.	15	25	100	300
Zn.	a	150	200	500
Cu.	200	1200	400	1000
Mo.	a	-1	a	3
Pb.	a	10	a	5

Results in parts per million.

a - absent or not detected.

(B.M.R. values given in Report No. 2, File 167NT/1 dated 26th January, 1965 by I.R. Pontifex).

TABLE 1

SUPERFICIAL DEPOSITS IN THE RUM JUNGLE AREA

The following is a tabulated description of the succession of superficial deposits overlying formations encountered in the Rum Jungle East and Rum Jungle Triangle areas, adapted from Pritchard (1964a, p.2.)

HORIZON	CRATER FORMATION	COOMALIE DOLOMITE	GOLDEN DYKE FORMATION	DOLERITE/AMPHIBOLITE	ALLUVIUM	REMARKS
A	Thin cover of grey humic surface soil	Red brown to grey humic surface soil	Pale grey to brown humic surface soil	Red/brown to dark grey humic soil	Black clayey soil filling old valleys and forming alluvial flats. Up to 60 ft. thick.	Seldom more than 5" thick. May be leached to paler coloured soil.
B	Fawn to brown sandy soil usually with angular quartz fragments. Pisolitic layers somewhat rare. Laterite rare.	Brick red to dark brown ferruginous sandy soil, locally pisolitic. Laterite extensively developed. Colour may be leached to pale yellow. Well rounded quartz grains usually present.	Pale red/brown ferruginous silt with pisolites. Laterites rare.	Dark red/brown fine silt. Well developed pisolitic layer just below surface. Laterites common.	Clean quartzose sand with yellow clay admixture in the vicinity of rivers and creeks.	Weathered soils usually indicative of underlying rock types. Thickness variable according to formation and situation.
C	Coarse brown sandy soil. patchy clay development, mostly of kaolinitic composition.	Deep zone of clayey soil. In parts talcose. Abrupt transition between clays and unaltered bed rock.	Brown to grey clay with abundant fragments of siltstone, sericite schist or black shale. Clay often has Mn mineralisation.	Brown ferruginous clay.		Argillaceous zone usually containing fragments of weathered rock.

TABLE 2

BACKGROUND AND ANOMALOUS VALUES OF BASE METALS IN RUM JUNGLE EAST AND RUM JUNGLE TRIANGLE.

		Cu	Pb	Zn	Co	Mo	Bi	Ni
R.J. TRIANGLE	BACKGROUND	100	30	100	40	?	10?	60
	ANOMALOUS	500	60 100	300+	100	?		400
R.J. EAST	BACKGROUND	100	30	100	40	10		50
	ANOMALOUS	?	?60	300+	100	40		150+

Background and anomalous values for Cu, Pb, Zn, Co, Mo, Bi and Ni. (Parts per million).

TABLE 3

AVERAGE BASE METAL BACKGROUND VALUES FOR LIMESTONE, SHALE, BLACK SHALE AND SOIL.

	Cu	Pb	Zn	Co	Mo	Bi	Ni
L/ST	5-20	5-10	4-20	0.2-2	0.1-0.5		3-10
SHALE	30-150	20	50-300	10-50	1	1	30-100
B. SHALE	20-300	20-400	100-1000	5-50	10-30		20-300
SOIL	2-100 (av.20)	2-200 (av.50)	10-300 (av.50)	1-40 (av.8)	0.2-5		5-500 (av.40)

Average background values for Cu, Pb, Zn, Co, Mo, Bi and Ni in limestone, shale, black shale and soil. (Parts per million). (After Hawkes and Webb 1962, pp. 359-377).

APPENDIX 3.

SAMPLE ANALYSES

RUM JUNGLE EAST AREA

Semi-quantitative spectrographic analyses by Australian Mineral Development Laboratories in parts per million.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
120N	98E	5	10	1	-20	5	-1
	100E	8	8	2	-20	8	3
	102E	8	8	2	-20	10	-1
	104E	15	10	10	20	15	-1
	106E	40	5	12	150	70	-1
	108E	15	7	150	100	80	5
	110E	20	12	10	20	10	7
	112E	25	12	15	20	15	8
	114E	25	12	10	200	30	6
	116E	60	15	15	40	20	12
	118E	80	18	12	20	20	10
	120E	60	15	7	20	10	8
	122E	10	20	10	-20	5	-1
	124E	12	8	2	-20	7	-1
	126E	15	10	2	-20	8	-1
	128E	40	40	5	30	25	-1
	130E	15	30	3	-20	15	-1
	132E	25	15	4	-20	25	6
	134E	60	10	4	25	50	1
	136E	8	8	3	-20	5	1
	138E	15	8	3	20	4	2
	140E	40	10	50	20	25	4
	142E	-	-	Not Sampled	-	-	-
	144E	40	1	15	40	15	1
	146E	50	3	20	70	12	1
	148E	20	1	15	30	10	1
	150E	40	2	12	25	10	2
	152E	50	3	12	50	10	1
	154E	30	4	12	30	12	1
	156E	8	5	8	30	8	-1
	158E	50	5	10	25	10	1
120N	160E	60	4	10	40	8	-1
96N	82E	10	15	3	-20	8	-1
	84E	15	12	3	-20	10	-1
	86E	15	10	2	-20	10	-1
	88E	25	3	10	70	7	-1
96N	90E	10	2	12	50	30	-1

- 20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
96N	92E	5	6	4	-20	6	-1
	94E	60	25	40	200	ND	2
	96E	15	15	25	200	12	4
	98E	60	40	30	40	80	2
	100E	40	20	10	25	25	4
	102E	10	10	4	-20	7	4
	104E	10	8	3	-20	7	-1
	106E	20	12	12	20	20	5
	108E	10	15	3	-20	8	-1
	110E	15	7	4	-20	10	1
	112E	20	5	15	150	20	-1
	114E	12	50	5	-20	8	-1
	116E	20	30	10	60	15	-1
	118E	15	50	7	50	20	-1
	120E	40	40	30	100	30	8
	122E	10	15	3	-20	7	-1
	124E	15	25	4	-20	8	1
	126E	15	10	3	-20	12	2
	128E	12	10	2	-20	8	1
	130E	10	6	2	-20	4	-1
	132E	15	8	4	20	8	3
	134E	40	6	5	20	8	4
	136E	15	6	2	-20	6	4
	138E	50	15	7	-20	7	5
	140E	15	4	2	-20	7	4
	142E	20	20	2	20	8	8
	144E	80	10	40	60	25	8
	146E	50	6	12	60	12	-1
	148E	25	3	20	50	8	-1
	150E	25	8	10	50	15	-1
	152E	60	8	20	60	25	5
	154E	50	4	15	50	8	-1
	156E	70	3	12	40	7	1
	158E	6	3	20	30	10	1
	160E	40	6	20	50	8	1
96N	162E	80	5	20	40	20	1
72N	74E	15	10	8	20	7	1
	76E	15	7	10	25	10	1
	78E	20	8	60	80	50	3
	80E	5	5	15	-20	8	-1
	82E	5	6	3	-20	6	-1
	84E	7	6	4	-20	6	-1
	86E	7	5	2	-20	5	-1
	88E	15	5	3	-20	7	-1
72N	90E	15	8	12	25	8	-1

ND - Not Determined.
-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
72N	92E	15)	10	15	20	8	-1
	94E	15	10	12	-20	7	-1
	96E	25	20	20	25	30	2
	98E	30	25	10	100	40	1
	100E	40	40	15	62	50	1
	102E	20	10	6	60	10	-1
	104E	15	8	6	20	8	-1
	106E	20	10	7	25	10	2
	108E	25	10	12	30	12	3
	110E	50	15	8	40	15	2
	112E	20	20	5	30	12	-1
	114E	15	8	4	40	12	-1
	116E	15	8	5	25	12	-1
	118E	15	12	5	-20	12	3
	120E	12	80	3	-20	10	2
	122E	10	25	1	-20	7	-1
	124E	12	7	1	-20	8	-1
	126E	15	5	1	-20	8	2
	128E	20	10	2	-20	10	3
	130E	15	4	1	-20	7	4
	132E	30	10	3	25	10	3
	134E	30	15	3	20	10	4
	136E	40	8	30	40	12	4
	138E	60	7	40	25	15	5
	140E	50	10	15	40	20	-1
	142E	50	10	2	25	8	-1
	144E	60	2	30	70	25	-1
	146E	50	1	12	50	10	-1
	148E	30	2	4	40	8	-1
	150E	40	5	10	50	15	-1
	152E	40	15	8	25	18	-1
	154E	60	4	18	30	15	-1
	156E	40	4	10	30	15	-1
	158E	100	5	15	40	15	-1
	160E	40	8	8	20	20	-1
	162E	50	10	8	25	40	5
72N	164E	15	5	5	25	8	-1
48N	52E	50	1	20	50	30	-1
	54E	8	2	5	20	7	-1
	56E	20	1	4	25	8	-1
	58E	10	15	5	-20	8	2
	60E	15	20	10	-20	8	-1
	62E	12	10	40	-20	8	2
	64E	8	15	5	-20	8	-1
48N	66E	8	10	20	-20	8	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
48E	68E	10	15	15	-20	8	-1
	70E	7	15	7	-20	7	-1
	72E	8	15	4	-20	4	-1
	74E	10	25	5	-20	7	-1
	76E	6	8	6	20	8	-1
	78E	7	5	5	-20	5	-1
	80E	60	40	10	40	12	-1
	82E	10	8	4	-20	6	-1
	84E	40	10	4	25	15	3
	86E	10	10	3	-20	5	-1
	88E	8	5	1	-20	6	2
	90E	10	8	3	-20	7	3
	92E	12	8	2	-20	6	2
	94E	12	8	2	-20	7	4
	96E	8	6	2	-20	6	3
	98E	15	7	3	-20	7	6
	100E	20	7	2	-20	8	2
	102E	20	10	3	20	8	-1
	104E	25	10	4	20	10	-1
	106E	15	8	2	-20	7	-1
	108E	15	8	2	-20	7	2
	110E	15	7	2	-20	7	2
	112E	20	8	3	20	8	-1
	114E	30	25	12	20	15	5
	116E	50	50	20	80	20	-1
	118E	25	8	3	20	8	5
	120E	40	15	10	40	15	8
	122E	20	20	3	-20	8	4
	124E	20	8	2	-20	8	5
	126E	15	15	2	-20	8	-1
	128E	50	5	2	25	10	-1
	130E	25	6	6	30	15	-1
	132E	25	6	5	25	12	2
	134E	40	10	5	25	10	8
	136E	25	4	2	-20	8	-1
	138E	25	1	6	50	8	-1
	140E	40	4	10	25	7	-1
	142E	50	4	12	70	8	-1
	144E	60	4	15	40	10	-1
	146E	80	5	25	50	10	-1
	148E	80	4	25	50	10	-1
	150E	60	4	15	40	10	-1
	152E	20	4	10	20	12	-1
	154E	20	5	7	25	10	-1
48N	156E	30	5	8	20	10	3

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
24N	30E	10	20	12	25	2	2
	32E	4	10	2	20	2	1
	34E	8	8	3	-20	5	1
	36E	10	7	8	-20	5	3
	38E	15	7	12	-20	6	5
	40E	5	8	4	-20	4	-1
	42E	8	7	5	-20	5	-1
	44E	15	30	5	-20	6	-1
	46E	10	10	4	-20	5	2
	48E	10	10	5	-20	7	3
	50E	10	10	3	30	8	-1
	52E	8	15	3	-20	6	-1
	54E	5	18	6	-20	5	2
	56E	5	15	3	-20	4	-1
	58E	4	50	3	-20	4	-1
	60E	4	15	3	-20	4	-1
	62E	7	10	4	-20	5	-1
	64E	5	10	3	-20	5	-1
	66E	15	30	5	-20	4	5
	68E	10	7	5	-20	4	-1
	70E	8	8	2	-20	4	-1
	72E	15	10	2	-20	4	-1
	74E	15	20	2	-20	4	-1
	76E	15	8	3	-20	5	2
	78E	15	20	5	-20	20	3
	80E	8	5	2	-20	8	-1
	82E	12	6	3	-20	10	3
	84E	15	8	3	-20	15	2
	86E	12	8	2	-20	8	-1
	88E	12	12	2	20	10	2
	90E	8	6	1	2 0	5	1
	92E	10	8	2	25	7	1
	94E	10	10	3	-20	8	1
	96E	20	12	4	40	10	3
	98E	10	5	15	20	7	1
	100E	15	10	3	-20	7	4
	102E	10	12	2	-20	8	-1
	104E	15	20	2	-20	8	5
	106E	10	30	4	-20	15	3
	108E	10	8	2	-20	8	4
	110E	15	8	8	25	10	4
	112E	30	15	10	25	15	8
	114E	12	5	3	-20	7	3
	116E	12	5	4	-20	10	2
24N	118E	15	7	4	20	10	5

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
24N	120E	25	6	5	25	10	7
	122E	20	5	3	-20	7	6
	124E	30	8	6	20	12	10
	126E	15	4	3	-20	6	-1
	128E	25	6	6	20	7	-1
	130E	8	3	7	30	8	-1
	132E	25	2	15	40	8	-1
	134E	40	1	8	30	6	-1
	136E	20	7	10	40	15	-1
	138E	15	8	10	40	15	1
	140E	15	4	12	30	15	1
	142E	12	7	8	30	12	-1
	144E	15	10	6	25	15	2
	146E	25	5	20	30	25	2
	148E	20	8	15	30	20	3
24N	150E	80	10	15	100	25	4
00	4W	15	12	4	-20	5	-1
	2W	4	5	5	30	5	-1
	00	10	4	7	30	10	-1
	2E	6	15	3	30	3	-1
	4E	8	12	3	20	4	-1
	6E	6	2	8	50	10	-1
	8E	5	10	3	30	4	-1
	10E	20	4	5	25	20	-1
	12E	50	5	15	50	20	-1
	14E	20	18	12	25	8	-1
	16E	20	15	5	30	12	-1
	18E	15	7	10	30	12	1
	20E	10	5	5	40	12	-1
	22E	20	15	80	40	15	5
	24E	15	10	10	20	12	5
	26E	15	8	3	20	8	3
	28E	20	7	3	-20	15	-1
	30E	20	6	3	-20	12	2
	32E	15	6	3	-20	8	-1
	34E	15	12	3	-20	8	3
	36E	20	12	3	-20	15	3
	38E	4	6	1	-20	6	-1
	40E	15	7	5	20	15	1
	42E	20	25	3	40	8	-1
	44E	10	40	2	25	5	-1
	46E	4	7	2	20	4	-1
	48E	8	7	2	-20	4	-1
	50E	6	8	3	-20	5	-1
00	52E	6	12	3	20	12	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
00	54E	7	8	2	20	12	-1
	56E	15	10	3	25	18	-1
	58E	15	8	6	20	15	-1
	60E	8	8	2	-20	5	-1
	62E	8	10	3	-20	5	-1
	64E	25	200	12	150	30	2
	66E	40	25	10	80	30	1
	68E	15	6	1	20	8	1
	70E	12	6	1	-20	8	-1
	72E	15	8	1	-20	8	-1
	74E	12	7	1	-20	7	-1
	76E	20	10	3	-20	15	-1
	78E	20	10	3	-20	12	2
	80E	20	10	5	-20	12	3
	82E	12	8	3	-20	8	3
	84E	15	8	3	20	12	3
	86E	15	8	4	-20	8	2
	87E	20	8	4	-20	10	-1
	88E	20	10	3	-20	8	4
	90E	8	10	1	-20	10	-1
	92E	12	10	3	-20	10	2
	94E	15	25	2	20	10	2
	96E	50	25	60	40	15	8
	98E	40	25	4	60	12	7
	100E	15	6	2	40	6	4
	102E	15	7	1	25	7	3
	104E	15	7	1	25	6	-1
	106E	15	7	2	-20	8	4
	108E	30	15	12	30	20	6
	110E	30	8	3	20	10	4
	112E	15	7	8	25	12	4
	114E	7	5	1	-20	6	2
	116E	8	8	3	30	6	4
	118E	20	15	4	25	15	1
	120E	8	7	3	20	10	3
	122E	8	8	3	-20	8	7
	124E	25	12	5	20	15	10
	126E	15	7	3	-20	10	3
	128E	15	5	3	20	10	-1
	130E	20	7	3	-20	8	6
	132E	20	8	3	-20	8	5
	134E	20	8	4	-20	10	5
	136E	30	12	4	20	15	8
	138E	40	10	4	20	15	5
	140E	50	15	80	50	25	8
	142E	15	8	2	-20	10	6
00	144E	25	8	3	-20	15	3

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
00	146E	60	25	80	100	60	10
00	148E	15	15	20	40	20	5
24S	24W	8	5	7	25	20	-1
	22W	8	8	4	25	3	-1
	20W	8	7	7	40	4	-1
	18W	10	15	8	50	25	-1
	16W	10	7	7	50	4	-1
	14W	8	8	8	60	5	-1
	12W	25	7	8	50	20	-1
	10W	15	15	7	50	8	-1
	8W	20	5	10	60	40	-1
	6W	20	10	6	50	10	1
	4W	12	12	4	40	5	2
	2W	15	10	8	50	20	8
	00	15	7	10	25	15	-1
	2E	12	6	4	20	4	1
	4W	12	7	6	30	5	3
	6E	50	12	60	100	25	8
	8E	30	8	4	20	10	3
	10E	8	8	3	20	5	1
	12E	10	10	4	50	10	3
	14E	10	12	15	60	12	5
	16E	15	6	3	20	5	-1
	18E	20	7	4	25	8	-1
	20E	20	10	15	30	15	5
	22E	25	15	6	25	15	3
	24E	15	25	1	-20	8	-1
	26E	30	10	10	40	15	-1
	28E	80	15	20	30	12	3
	30E	20	8	5	25	8	1
	32E	5	6	4	25	8	-1
	34E	12	4	1	-20	6	4
	36E	15	4	4	-20	8	4
	38E	12	4	1	-20	7	5
	40E	8	5	1	-20	5	3
	42E	8	5	1	-20	5	1
	44E	12	7	3	-20	6	1
	46E	20	10	8	-20	15	4
	48E	15	12	8	-20	15	1
	50E	20	10	10	-20	15	3
	52E	8	5	3	-20	8	2
	54E	12	8	4	-20	10	2
	56E	12	10	4	-20	10	3
	58E	15	7	3	-20	10	3
	60E	20	15	8	20	15	8
24S	62E	15	12	5	-20	12	6

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
24S	64E	12	12	4	-20	8	5
	66E	12	7	3	-20	8	5
	68E	10	15	4	-20	15	5
	70E	10	12	1	-20	5	3
	72E	8	6	2	-20	5	-1
	74E	15	4	10	20	15	-1
	76E	8	5	10	-20	6	2
	78E	15	10	3	-20	6	7
	80E	4	4	3	-20	3	4
	82E	15	12	3	-20	8	6
	84E	30	10	6	100	10	8
	86E	20	8	60	40	20	3
	88E	12	5	6	50	10	-1
	90E	15	6	6	50	8	2
	92E	12	4	6	60	15	1
	94E	10	4	6	50	8	-1
	96E	12	5	5	20	6	3
	98E	30	15	7	40	12	10
	100E	12	4	6	20	10	6
	102E	15	6	7	-20	8	3
	104E	20	6	8	25	12	5
	106E	20	10	3	-20	6	8
	108E	25	8	6	20	8	2
	110E	20	8	7	20	8	-1
	112E	30	7	12	30	15	-1
	114E	15	7	6	25	8	-1
	116E	20	7	6	30	10	2
	118E	20	8	7	25	8	3
	120E	20	12	8	30	15	2
	122E	25	12	8	25	10	3
	124E	20	10	4	80	12	3
	126E	15	8	5	40	20	1
	128E	20	10	10	80	30	10
24S	130E	20	10	50	40	20	8
48S	4W	15	8	20	20	10	7
	2W	15	8	6	20	10	5
	00	12	8	5	25	8	5
	2E	25	12	18	40	12	5
	4E	15	8	10	20	7	3
	6E	50	8	15	50	12	-1
	8E	30	10	7	20	10	3
	10E	20	8	3	20	7	3
	12E	30	12	6	20	10	3
	14E	30	10	5	20	10	3
48S	16E	12	6	3	-20	8	3

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
48S	18E	20	8	2	25	12	4
	20E	20	10	4	20	10	8
	22E	30	30	5	20	12	6
	24E	40	15	5	25	12	6
	26E	20	8	2	-20	8	5
	28E	10	12	4	-20	8	2
	30E	25	10	4	-20	8	1
	32E	30	7	10	50	25	3
	34E	15	20	3	-20	8	-1
	36E	25	10	12	30	25	1
	38E	25	12	10	25	15	5
	40E	15	8	1	20	10	5
	42E	12	15	1	-20	8	6
	44E	12	12	3	-20	8	4
	46E	15	10	4	-20	8	5
	48E	25	12	3	20	15	5
	50E	15	8	2	-20	8	2
	52E	30	10	1	-20	8	3
	54E	30	15	3	25	12	8
	56E	30	15	4	20	12	8
	58E	20	12	2	-20	12	4
	60E	15	8	2	20	8	5
	62E	8	5	2	30	7	-1
	64E	15	10	5	50	10	6
	66E	15	40	6	50	10	4
	68E	40	8	12	60	20	4
	70E	40	10	30	60	12	4
	72E	30	8	25	70	15	5
	74E	50	8	2	20	5	8
	76E	50	8	2	25	5	5
	78E	20	10	20	300	70	4
	80E	15	7	10	50	15	1
	82E	15	7	10	150	15	1
	84E	25	8	8	70	30	3
	86E	40	15	12	100	30	-1
	88E	15	30	1	-20	5	2
	90E	20	150	2	-20	7	7
	92E	7	100	1	20	7	-1
	94E	30	30	2	20	15	5
	96E	10	50	1	-20	6	-1
	98E	25	12	15	50	15	-1
	100E	30	15	6	-20	12	6
	102E	25	15	6	-20	10	5
	104E	25	10	4	25	10	2
	106E	25	10	7	-20	10	5
48S	108E	20	8	4	-20	10	5

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
48S	110E	15	6	6	-20	10	3
	112E	18	6	6	20	10	4
	114E	15	5	3	20	8	3
	116E	15	8	6	30	15	4
48S	118E	12	10	4	20	10	5
72S	60W	8	8	3	-20	5	2
	58W	12	10	2	-20	5	-1
	56W	10	10	5	-20	8	-1
	54W	12	5	7	20	15	-1
	52W	12	10	4	-20	4	-1
	50W	70	12	7	20	20	1
	48W	15	8	7	-20	20	1
	46W	20	8	6	-20	15	-1
	44W	8	7	5	-20	4	-1
	42W	8	6	40	60	30	-1
	40W	40	4	15	50	50	-1
	38W	25	5	30	40	15	1
	36W	8	6	5	25	8	2
	34W	15	8	10	20	10	3
		32W to 6W not sampled.					
	4W	25	15	4	25	8	7
	2W	8	5	3	25	10	-1
	00	10	5	4	-20	10	-1
	2E	10	7	4	25	10	1
	4E	15	6	6	20	10	-1
	6E	15	8	5	20	10	-1
	8E	15	7	12	40	15	-1
	10E	40	6	20	60	15	4
	12E	12	7	8	60	15	5
	14E	15	5	10	50	15	3
	16E	40	5	5	30	20	10
	18E	30	8	10	30	20	5
	20E	10	6	3	25	6	4
	22E	15	20	4	20	8	-1
	24E	40	10	30	50	40	8
	26E	10	7	5	30	10	-1
	28E	30	10	15	40	25	3
	30E	40	30	5	25	8	3
	32E	20	100	3	30	8	3
	34E	25	10	4	25	8	6
	36E	25	15	5	20	12	5
	38E	30	15	8	25	15	10
	40E	60	25	2	20	15	4
	42E	20	15	3	-20	8	5
	44E	30	20	10	100	40	4
72S	46E	10	12	2	-20	6	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
72S	48E	15	8	4	-20	7	2
	50E	15	10	5	-20	10	3
	52E	25	15	10	25	20	5
	54E	20	15	12	40	25	6
	56E	12	10	6	-20	8	6
	58E	80	1000	500	300	150	25
	60E	40	25	15	30	30	6
	62E	40	30	60	80	40	8
	64E	50	25	20	250	70	8
	66E	30	15	4	-20	10	8
	68E	750	15	4	-20	20	30
	70E	50	15	3	-20	15	12
	72E	30	12	2	-20	20	4
	74E	250	30	5	-20	25	2
	76E	80	15	10	-20	25	6
	78E	50	25	3	-20	12	6
	80E	30	15	12	25	12	6
	82E	15	25	2	-20	15	4
	84E	20	10	10	20	12	6
	86E	25	20	25	20	15	7
	88E	20	8	15	25	12	3
	90E	20	8	8	25	15	4
	92E	20	7	7	20	15	4
	94E	25	8	5	25	10	8
	96E	25	10	8	25	18	8
	98E	20	8	15	25	20	8
	100E	25	15	20	25	25	4
	102E	30	12	20	25	25	10
72S	104E	15	10	5	20	8	5
96S	60W	5	12	5	-20	8	-1
	58W	8	6	5	-20	20	-1
	56W	15	6	20	30	30	-1
	54W	8	6	2	-20	8	2
	52W	25	10	20	-20	20	5
	50W	8	4	30	-20	12	2
	48W	20	10	10	-20	12	2
	46W	20	5	12	30	20	-1
	44W	30	10	12	-20	20	-1
	42W	30	10	15	25	20	2
	40W	30	8	6	25	20	2
	38W	15	15	6	-20	15	3
		36W to 14W not sampled.					
	12W	10	4	10	-20	5	-1
	10W	20	8	6	20	10	5
	8W	40	15	2	25	10	12
96S	6W	15	15	2	-20	10	8

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
96S	4W	12	5	7	30	10	-1
	2W	15	5	7	-20	8	-1
	00	15	6	12	25	12	-1
	2E	20	6	8	25	12	-1
	4E	12	7	7	60	10	-1
	6E	15	5	7	30	10	-1
	8E	15	12	12	30	15	-1
	10E	50	12	8	70	12	-1
	12E	20	7	5	25	15	2
	14E	40	10	50	30	25	2
	16E	15	7	7	-20	8	-1
	18E	30	3	10	40	18	-1
	20E	15	7	10	30	20	-1
	22E	20	7	8	30	15	-1
	24E	60	8	8	30	15	2
	26E	100	20	30	300	40	15
	28E	20	8	3	30	15	1
	30E	15	15	10	50	20	1
	32E	30	10	12	250	20	1
	34E	40	12	15	250	20	1
	36E	15	40	20	500	25	4
	38E	12	20	6	70	20	4
	40E	20	12	6	60	20	2
	42E	30	15	7	30	25	3
	44E	15	25	-1	-20	7	6
	46E	30	200	2	-20	8	5
	48E	60	40	3	-20	20	4
	50E	20	12	2	-20	6	3
	52E	20	12	3	-20	6	1
	54E	25	12	2	-20	7	6
	56E	20	12	4	-20	8	5
	58E	10	10	5	-20	7	-1
	60E	10	12	4	-20	8	2
	62E	15	20	7	-20	10	1
	64E	15	10	5	-20	5	3
	66E	15	12	5	-20	10	2
	68E	15	15	8	-20	10	2
	70E	25	15	8	40	25	2
	72E	20	7	8	25	25	1
	74E	15	8	7	20	15	-1
	76E	12	8	8	-20	8	1
	78E	15	8	7	25	20	1
	80E	15	7	5	20	10	1
	82E	10	6	7	30	25	-1
	84E	15	10	5	20	10	2
96S	86E	30	20	7	30	10	5

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
96S	88E	20	6	6	-20	8	2
	90E	15	8	5	-20	8	2
	92E	30	15	8	20	10	3
	94E	50	15	40	100	80	8
96S	96E	20	30	5	30	12	5
120S	60W	6	10	-1	-20	6	-1
	58W	5	7	-1	-20	18	-1
	56W	6	4	4	-20	15	-1
	54W	6	5	1	-20	5	-1
	52W	15	4	1	-20	5	-1
	50W	5	5	2	-20	7	-1
	48W	15	8	3	-20	10	5
	46W	20	10	3	-20	10	5
	44W	30	10	4	-20	15	6
	42W	15	8	3	-20	7	5
	40W	50	20	15	25	30	7
	38W	30	20	5	30	30	7
	36W	40	15	4	20	15	12
		34W to 12W not sampled.					
	10W	5	5	5	30	2	1
	8W	25	12	3	20	10	12
	6W	20	10	3	25	8	8
	4W	8	10	5	20	8	10
	2W	12	10	8	25	8	8
	00	10	4	7	20	15	1
	2E	15	5	4	20	8	-1
	4E	8	6	5	-20	7	-1
	6E	30	4	10	40	8	-1
	8E	10	25	4	-20	7	6
	10E	10	6	5	20	8	8
	12E	8	5	5	25	10	1
	14E	20	12	40	25	12	8
	16E	25	5	12	20	7	-1
	18E	10	7	8	20	8	-1
	20E	30	5	12	25	20	-1
	22E	15	10	8	30	12	2
	24E	25	8	10	50	15	2
	26E	25	15	15	40	12	5
	28E	50	15	80	150	40	10
	30E	25	15	12	150	40	5
	32E	20	40	15	40	20	2
	34E	15	200	10	60	15	5
	36E	250	10000	100	2000	150	25
	38E	80	700	15	500	80	20
120S	40E	20	70	3	100	10	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
120S	42E	20	30	7	80	15	3
	44E	50	10	40	60	40	5
	46E	25	15	12	70	15	3
	48E	15	10	8	40	12	1
	50E	25	12	15	80	60	1
	52E	25	12	8	50	50	4
	54E	25	12	6	25	15	5
	56E	25	10	5	20	10	3
	58E	25	15	7	25	10	7
	60E	60	10	25	60	15	7
	62E	30	10	8	50	15	4
	64E	50	15	20	40	15	8
	66E	20	10	6	20	12	5
	68E	40	12	8	25	12	5
	70E	30	12	8	30	10	4
	72E	10	15	8	20	15	8
	74E	15	7	5	-20	8	7
	76E	15	7	5	20	8	7
	78E	25	8	12	20	12	8
	80E	25	8	10	40	18	1
	82E	25	15	8	30	20	2
	84E	40	15	3	40	12	4
120S	86E	40	15	10	30	15	4
144S	64W	6	8	2	-20	3	-1
	62W	6	6	2	-20	10	-1
	60W	5	4	-1	-20	5	-1
	58W	10	4	1	-20	3	-1
	56W	15	5	3	-20	8	2
	54W	15	5	-1	-20	7	3
	52W	15	6	2	-20	7	4
	50W	8	8	2	-20	7	5
	48W	15	10	3	-20	8	5
	46W	25	10	7	-20	20	5
	44W	30	15	10	-20	40	8
	42W	20	8	4	-20	15	5
	40W	70	15	6	20	20	8
	38W	70	15	1	-20	6	10
		36W to 8W not sampled.					
	6W	10	7	3	20	10	2
	4W	15	7	5	20	12	3
	2W	20	10	12	25	15	3
	00	15	6	8	20	10	2
	2E	10	8	7	20	10	1
	4E	15	8	8	20	10	-1
	6E	15	8	8	20	12	1
144S	8E	20	40	10	50	12	3

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
144S	10E	20	8	10	30	12	-1
	12E	15	6	5	20	8	-1
	14E	30	10	7	25	12	-1
	16E	20	8	6	29	10	3
	18E	10	5	5	20	8	-1
	20E	15	7	7	25	10	-1
	22E	10	5	2	20	7	-1
	24E	20	8	3	20	8	5
	26E	40	15	8	20	20	8
	28E	20	6	5	25	10	-1
	30E	20	10	2	25	10	3
	32E	30	80	6	20	12	5
	34E	100	60	15	150	40	15
	36E	40	250	2	20	12	-1
	38E	250	40	200	2500	700	30
	40E	80	60	12	100	60	50
	42E	50	15	7	70	30	8
	44E	70	15	7	50	40	8
	46E	25	12	2	30	10	3
	48E	40	12	10	40	12	5
	50E	30	10	2	25	8	7
	52E	30	12	4	25	10	7
	54E	30	12	3	20	10	3
	56E	30	15	5	30	15	7
	58E	50	20	30	25	15	7
	60E	25	12	5	40	8	2
	62E	50	15	30	50	50	8
	64E	30	15	10	40	8	6
	66E	25	20	5	30	10	7
	68E	40	150	10	100	40	10
	70E	40	25	15	25	10	5
	72E	30	15	7	20	10	3
	74E	25	7	5	40	12	2
	76E	25	8	6	25	12	4
	78E	15	6	3	-20	8	2
	80E	20	12	6	20	18	12
	82E	15	10	5	-20	10	6
144S	84E	30	30	6	20	20	10
168S	70W	15	15	5	-20	8	-1
	68W	10	7	5	20	8	-1
	66W	15	20	8	40	12	3
	64W	40	15	200	80	30	1
	62W	25	15	5	-20	15	2
	60W	20	7	12	30	30	-1
	58W	25	15	8	-20	25	4
168S	56W	20	7	8	-20	15	3

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
168S	54W	30	12	25	40	50	7
	52W	15	10	5	-20	10	5
	50W	10	12	7	-20	10	3
	48W	6	7	-1	-20	3	6
	46W	20	8	10	-20	10	4
	44W	25	15	6	30	15	6
	42W	25	8	5	30	15	7
		40W to 16W not sampled.					
	14W	30	12	2	20	10	40
	12W	30	10	5	60	12	10
	10W	15	8	8	25	12	5
	8W	25	8	8	20	10	6
	6W	25	12	10	25	12	8
	4W	25	12	10	30	12	8
	2W	25	8	10	25	15	-1
	00	15	10	2	20	8	5
	2E	20	8	5	30	12	-1
	4E	20	10	5	20	12	-1
	6E	10	8	7	25	15	4
	8E	25	10	10	30	18	-1
	10E	60	8	12	30	18	-1
	12E	15	6	6	30	8	-1
	14E	25	10	10	60	20	7
	16E	20	8	10	40	20	6
	18E	50	12	20	60	30	5
	20E	25	12	12	40	20	-1
	22E	15	8	6	30	20	-1
	24E	40	15	6	40	20	8
	26E	25	15	20	200	50	10
	28E	20	20	2	-20	5	-1
	30E	20	50	2	-20	5	-1
	32E	15	30	2	-20	5	2
	34E	20	60	2	-20	10	4
	36E	20	25	1	-20	7	6
	38E	100	25	8	150	20	8
	40E	25	15	2	30	12	3
	42E	25	8	2	50	10	2
	44E	20	10	20	80	50	4
	46E	15	6	3	30	15	-1
	48E	30	8	4	50	20	-1
	50E	15	8	7	80	15	-1
	52E	15	7	3	200	15	6
	54E	50	15	4	60	15	5
	56E	30	8	3	30	12	4
	58E	20	8	3	50	12	4
	60E	40	15	15	40	25	7
168S	62E	20	20	1	25	10	3

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
168S	64E	25	8	2	20	6	5
	66E	50	10	6	25	10	7
	68E	20	10	4	20	10	8
	70E	25	12	5	20	12	8
	72E	20	8	5	25	10	4
168S	74E	40	15	6	25	12	5
192S	74W	8	15	1	-20	5	2
	72W	400	20	150	150	200	-1
	70W	200	40	10	-20	50	71
	68W	40	25	8	-20	50	2
	66W	25	8	4	-20	20	71
	64W	25	10	3	-20	15	1
	62W	25	12	5	-20	15	4
	60W	40	8	3	20	15	2
	58W	50	15	3	25	10	3
	56W	1^{0}	10	2	-20	5	-1
	54W	200	700	50	60	100	4
	52W	150	500	25	600	25	2
	50W	15	50	2	-20	5	5
	48W	25	15	12	50	20	2
	46W	20	15	4	25	10	-1
	44W	20	60	5	-20	20	2
	42W	25	30	12	30	20	3
	40W	30	15	3	20	10	5
	38W	60	15	5	30	30	5
	36W	40	40	8	80	25	4
	34W	20	5	10	30	20	-1
	32W	5	8	2	20	7	-1
	30W	40	15	30	150	70	5
	28W	50	25	15	100	100	8
	26W	40	25	7	25	30	10
	24W	15	8	2	20	25	5
	22W	50	25	3	60	20	15
	20W	15	25	4	-20	30	20
	18W	40	15	6	20	25	30
	16W	15	3	8	30	25	5
	14W	20	8	25	50	40	1
	12W	10	7	8	20	15	3
	10W	12	8	10	25	25	4
	8W	15	10	15	25	18	5
	6W	15	7	15	20	15	3
	4W	10	6	7	-20	8	1
	2W	15	7	3	20	15	1
	00	12	5	3	20	15	-1
	2E	15	25	15	25	18	2
192S	4E	10	2	6	30	15	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
192S	6E	12	7	6	-20	5	1
	8E	12	5	8	30	15	2
	10E	20	8	8	40	15	-1
	12E	15	5	5	30	10	-1
	14E	30	10	10	40	15	-1
	16E	15	6	1	20	8	1
	18E	25	7	2	60	10	-1
	20E	30	15	10	30	20	5
	22E	100	25	10	200	30	25
	24E	60	20	10	60	40	10
	26E	30	15	6	40	25	6
	28E	30	20	5	30	25	10
	30E	50	30	50	40	50	10
	32E	600	30	40	80	150	12
	34E	20	15	3	30	12	4
	36E	20	20	5	25	15	3
	38E	25	25	15	50	25	15
	40E	60	20	6	200	15	5
	42E	20	150	5	100	15	6
	44E	20	12	12	500	15	2
	46E	30	18	8	200	15	2
	48E	50	40	20	100	30	25
	50E	80	25	10	100	25	12
	52E	50	25	15	60	25	5
	54E	30	25	10	25	25	25
	56E	10	25	2	-20	12	5
	58E	10	10	2	-20	12	15
	60E	15	15	10	20	15	10
	62E	50	15	30	25	15	10
	64E	250	20	15	70	30	15
	66E	150	30	8	30	80	18
192S	68E	60	50	100	50	80	15
216S	80W	12	18	1	-20	15	-1
	78W	10	12	3	-20	7	-1
	76W	8	8	1	-20	5	-1
	74W	7	10	1	-20	5	2
	72W	8	8	3	-20	8	-1
	70W	10	8	2	-20	8	2
	68W	25	15	3	-20	10	3
	66W	20	40	8	70	25	-1
	64W	20	40	3	30	15	-1
	62W	40	5	10	-20	20	-1
	60W	15	20	10	25	12	-1
			58W to 32W not sampled.				
	30W	18	12	5	20	10	-1
216S	28W	18	15	8	25	25	3

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
216S	26W	20	18	8	25	25	4
	24W	20	10	6	20	30	-1
	22W	20	15	6	30	30	5
	20W	15	20	3	40	15	1
	18W	25	20	5	-20	20	2
	16W	25	300	20	30	25	4
	14W	12	15	3	-20	15	1
	12W	15	12	4	20	15	-1
	10W	25	8	10	40	25	2
	8W	15	20	6	60	20	-1
	6W	15	5	4	20	10	-1
	4W	20	5	6	30	15	2
	2W	15	8	7	50	15	2
	00	25	15	8	40	20	5
	2E	25	8	3	-20	5	8
	4E	50	12	15	250	20	-1
	6E	40	18	10	70	20	3
	8E	20	20	10	60	20	3
	10E	20	10	8	60	20	1
	12E	25	12	10	50	25	4
	14E	25	15	10	50	20	2
	16E	30	15	7	25	15	5
	18E	30	15	10	70	60	4
	20E	25	40	25	80	50	6
	22E	20	10	4	25	20	5
	24E	20	20	3	60	30	10
	26E	20	10	2	20	8	8
	28E	15	40	10	20	15	10
	30E	80	40	10	30	25	12
	32E	15	10	10	30	15	-1
	34E	20	40	2	40	15	2
	36E	30	250	3	50	8	5
	38E	30	300	3	300	8	6
	40E	25	2000	5	40	8	15
	42E	15	150	6	80	15	7
	44E	15	15	8	60	15	7
	46E	15	10	10	30	20	6
	48E	20	15	5	80	15	6
	50E	20	8	12	40	15	5
	52E	50	10	15	60	20	8
	54E	40	30	20	40	20	12
	56E	25	20	40	40	20	7
	58E	25	25	12	40	15	8
216S	60E	20	40	6	30	15	7

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
240S	86W	15	15	3	-	8	
	84W	15	15	3	-20	8	-1
	82W	15	12	2	-20	8	1
	80W	15	12	3	-20	8	-1
	78W	15	10	2	-20	8	-1
	76W	12	12	2	-20	7	2
	74W	15	10	3	-20	8	2
	72W	25	10	6	-20	15	2
	70W	25	15	8	20	15	-1
	68W	40	25	8	20	25	3
	66W	25	25	5	-20	10	-1
	64W	40	60	15	25	25	-1
	62W	7	100	2	-20	5	-1
	60W	7	150	20	300	30	-1
	58W	8	6	20	30	12	-1
	56W	10	5	25	30	15	-1
		54W to 34W not sampled.					
	33W	18	25	4	20	12	3
		32W not sampled.					
	30W	15	8	8	25	12	-1
	28W	15	12	5	25	10	-1
	26W	20	100	20	60	20	2
	24W	30	5	7	60	12	2
	22W	12	15	7	50	12	2
	20W	25	20	5	50	10	2
	18W	40	20	12	100	30	2
	16W	15	15	10	30	12	3
	14W	250	30	80	200	150	4
	12W	15	7	5	30	5	-1
	10W	20	7	7	30	15	5
	8W	20	7	5	50	15	4
	6W	15	6	2	40	8	-1
	4W	15	5	2	-20	10	-1
	2W	20	15	6	-20	10	-1
	00	20	20	5	-20	10	3
	2E	25	25	7	20	10	4
	4E	30	4	20	30	7	-1
	6E	20	5	10	30	6	-1
	8E	20	5	18	30	8	-1
	10E	20	18	15	50	12	1
	12E	15	15	20	40	15	2
	14E	25	30	20	50	15	3
	16E	20	40	7	40	12	5
	18E	20	40	10	150	20	3
	20E	25	60	5	50	15	12
	22E	20	30	2	20	8	4
240S	24E	25	30	4	50	30	3

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
240S	26E	10	8	2	-20	8	2
	28E	15	20	3	30	18	1
	30E	15	8	30	40	15	-1
	32E	30	15	2	50	15	-1
	34E	70	50	20	400	25	7
	36E	25	10	10	100	20	3
	38E	40	8	5	40	15	2
	40E	50	12	30	70	50	3
	42E	20	12	25	70	50	3
	44E	20	12	7	40	12	2
	46E	30	18	8	30	12	7
	48E	30	15	7	30	15	7
	50E	20	12	3	20	8	10
	52E	30	15	5	40	10	15
240S	54E	50	12	7	30	15	10
264S	90W	20	150	8	40	7	2
	88W	7	20	3	-20	5	-1
	86W	40	250	7	150	25	3
	84W	25	7	3	20	5	1
	82W	40	30	4	40	6	1
	80W	7	5	1	-20	6	-1
	78W	8	30	1	-20	7	-1
	76W	4	5	2	-20	5	2
	74W	50	18	40	200	25	12
	72W	25	15	15	20	15	2
	70W	40	15	20	100	15	3
	68W	3	7	3	-20	5	1
	66W	5	6	10	-20	6	2
	64W	25	7	7	-20	10	3
	62W	25	5	30	30	10	-1
	60W	7	6	50	50	25	1
	58W	7	7	40	150	25	1
	56W	8	10	60	50	15	1
	54W	20	25	5	30	6	-1
	52W	15	8	4	20	5	1
	50W	30	7	12	20	15	1
	48W	12	5	8	20	10	-1
	46W	40	8	8	20	12	7
	44W	20	10	6	50	12	7
	42W	50	12	25	150	80	2
	40W	2	250	8	700	15	-1
	38W	20	15	10	30	15	2
	36W	20	5	8	30	15	1
	34W	20	5	8	30	15	-1
	32W	7	8	2	30	8	-1
264W	30W	8	4	2	20	8	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
264S	28W	12	5	4	30	18	-1
	26W	10	12	5	25	15	1
	24W	10	15	2	-20	8	2
	22W	12	6	3	40	15	-1
	20W	15	8	2	30	12	-1
	18W	10	7	6	40	15	-1
	16W	30	15	5	40	18	-1
	14W	25	12	8	40	18	-1
	12W	15	12	7	40	15	-1
	10W	15	12	7	30	18	1
	8W	10	20	6	50	20	-1
	6W	10	7	5	30	8	-1
	4W	20	60	25	70	20	6
	2W	20	50	25	100	30	5
	00	20	20	12	50	20	5
	2E	25	20	8	100	20	3
	4E	12	10	7	100	15	2
	6E	10	5	5	50	15	-1
	8E	12	12	8	60	30	2
	10E	12	12	40	70	25	7
	12E	12	12	2	30	7	-1
	14E	10	15	5	25	10	1
	16E	15	8	6	25	8	1
	18E	25	8	7	40	20	-1
	20E	30	12	12	30	15	2
	22E	12	10	20	40	100	3
	24E	12	7	2	30	10	1
	26E	12	8	3	-20	15	3
	28E	12	8	10	30	15	2
	30E	12	5	7	20	12	-1
	32E	15	6	10	50	12	4
	34E	12	8	2	30	10	6
	36E	20	10	15	40	20	6
	38E	20	10	12	50	18	4
	40E	30	12	15	20	15	3
	42E	25	15	5	20	12	7
	44E	50	50	25	100	50	7
	46E	20	12	30	40	15	7
	48E not sampled.						
	50E	25	12	8	30	20	6
	52E	12	5	7	40	20	7
	54E	12	5	5	40	15	4
	56E	25	15	4	50	15	8
264S	58E	40	20	2	-20	8	12

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
288S	90W	8	10	2	-20	4	-1
	88W	8	5	2	-20	5	-1
	86W	10	8	3	-20	5	3
	84W	25	40	2	25	6	2
	82W	25	6	15	50	12	-1
	80W	4	5	6	-20	5	-1
	78W	5	5	10	-20	6	4
	76W	4	18	2	-20	6	-1
	74W	5	15	2	-20	6	-1
	72W	10	7	8	-20	7	4
	70W	10	8	12	40	12	-1
	68W	5	3	80	80	20	3
	66W	150	10	10	100	20	2
	64W	25	10	50	80	25	4
	62W	15	10	15	20	10	2
	60W	12	12	10	-20	8	-1
	58W	20	25	15	30	10	2
	56W	5	7	12	-20	10	-1
	54W	10	5	12	-20	8	2
	52W	15	10	20	20	30	2
	50W	40	7	30	25	150	2
	48W	6	8	12	20	7	2
	46W	6	8	10	20	5	-1
	44W	12	8	12	70	6	-1
	42W	10	7	7	-20	7	-1
	40W	20	25	6	200	25	-1
	38W	7	4	7	50	40	2
	36W	10	20	15	60	20	2
	34W	20	10	8	60	25	2
	32W	7	5	4	30	8	-1
	30W	70	20	10	50	15	2
	28W	40	30	4	25	12	2
	26W	25	12	4	-20	10	4
	24W	50	10	10	25	12	2
	22W	50	7	10	20	8	2
	20W	40	6	12	30	8	2
	18W	7	5	4	-20	8	1
	16W	15	8	12	-20	10	2
	14W	7	5	6	50	8	-1
	12W	15	7	15	25	15	4
	10W	12	7	12	25	10	5
	8W	6	5	8	20	10	-1
	6W	7	6	7	-20	7	-1
	4W	50	25	30	50	40	5
288S	2W	30	50	20	25	20	5

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
288S	00	25	60	10	30	18	1
	2E	15	20	7	20	15	3
	4E	20	20	8	20	15	2
	6E	25	30	5	20	15	2
	8E	15	20	8	25	15	3
	10E	15	8	10	20	20	4
	12E	15	10	7	25	25	3
	14E	20	15	8	30	40	2
	16E	20	10	7	20	25	2
	18E	25	10	5	20	15	2
	20E	30	12	3	-20	10	3
	22E	25	8	4	-20	8	-1
	24E	25	10	20	25	20	7
	26E	15	8	6	-20	12	3
	28E	20	8	7	-20	10	4
	30E	25	7	5	-20	15	2
	32E	25	8	12	20	20	5
	34E	20	8	8	-20	25	4
	36E	20	12	5	20	20	-1
	38E	30	12	8	30	20	7
	40E	25	12	8	-20	20	3
	42E	25	20	12	-20	15	4
	44E	40	80	5	-20	8	3
	46E	80	15	8	-20	12	7
288S	48E	15	15	3	20	15	2
312S	90W	12	10	3	-20	6	-1
	88W	15	3	50	40	40	-1
	86W	18	8	20	-20	25	-1
	84W	20	10	6	-20	10	1
	82W	15	12	7	20	12	-1
	80W	18	8	7	-20	15	-1
	78W	20	10	10	-20	15	1
	76W	20	10	10	-20	10	1
	74W	25	10	20	-20	25	-1
	72W	15	7	10	-20	18	-1
	70W	20	8	5	-20	15	-1
	68W	20	8	5	-20	15	-1
	66W	5	6	1	-20	5	-1
	64W	4	10	1	-20	5	-1
	62W	4	10	1	-20	3	-1
	60W	25	80	8	150	15	-1
	58W	7	7	6	20	8	-1
	56W	5	8	12	20	10	-1
	54W	12	20	6	60	12	-1
312S	52W	4	4	7	-20	8	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
312S	50W	5	5	12	-20	8	-1
	48W	6	6	4	-20	8	-1
	46W	5	5	5	30	40	-1
	44W	25	25	20	25	50	2
	42W	8	10	8	20	8	-1
	40W	15	5	10	30	8	-1
	38W	25	15	25	25	30	-1
	36W	12	10	40	25	50	-1
	34W	5	3	10	-20	8	-1
	32W	20	30	12	60	8	-1
	30W	2	3	10	20	12	-1
	28W	15	2	12	20	12	-1
	26W	40	2	12	40	15	-1
	24W	8	4	12	20	10	-1
	22W	40	25	20	150	15	1
	20W	7	5	2	-20	10	-1
	18W	5	8	3	-20	12	-1
	16W	3	8	1	-20	2	-1
	14W	6	12	3	-20	4	2
	12W	8	8	2	-20	5	-1
	10W	8	5	2	-20	6	-1
	8W	not sampled.					
	6W	10	4	7	20	7	-1
	4W	60	50	40	20	12	-1
	2W	12	8	8	-20	10	-1
	00	15	8	8	-20	10	3
	2E	10	3	7	-20	10	-1
	4E	50	3	7	25	10	-1
	6E	10	3	5	-20	6	3
	8E	30	7	15	-20	15	2
	10E	8	6	7	-20	12	2
	12E	10	7	8	20	10	3
	14E	10	7	8	20	15	3
	16E	15	10	10	-20	15	4
	18E	10	6	7	20	12	-1
	20E	10	10	8	-20	8	2
	22E	80	15	3	40	7	8
	24E	25	6	2	-20	7	-1
	26E	40	5	2	-20	8	5
	28E	15	5	4	-20	15	3
	30E	30	6	7	25	20	3
	32E	20	7	7	40	20	4
	34E	10	5	4	-20	7	-1
	36E	15	7	5	25	15	2
312S	38E	15	15	5	25	6	8

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
312S	40E	8	7	1	25	5	-1
	42E	12	7	2	20	5	3
	44E	20	8	6	30	12	2
	46E	18	10	5	25	10	5
	48E	18	10	5	20	10	4
312S	50E	15	10	2	20	8	4
336S	54W	8	10	5	-20	6	-1
	52W	10	12	6	-20	8	-1
	50W	10	8	7	-20	15	-1
	48W	20	20	6	-20	25	-1
	46W	25	3	6	30	25	-1
	44W	10	10	3	-20	10	-1
	42W	10	6	7	-20	12	-1
	40W	12	4	40	30	20	-1
	38W	5	2	15	-20	15	-1
	36W	7	3	20	-20	12	-1
	34W	6	2	150	-20	40	1
	32W	7	6	7	-20	10	-1
	30W	8	6	5	-20	8	-1
	28W	8	7	3	-20	6	-1
	26W	15	15	8	-20	7	-1
	24W	10	8	7	-20	7	-1
	22W	10	8	5	-20	7	-1
	20W	10	8	5	-20	8	-1
	18W	15	10	30	-20	20	1
	16W	15	5	20	-20	20	3
	14W	30	25	12	-20	30	1
	12W	10	6	5	-20	6	-1
	10W	8	8	5	-20	6	-1
	8W	15	10	15	-20	15	1
	6W	8	8	5	-20	5	-1
	4W	20	40	150	70	60	1
	2W	12	10	5	-20	10	-1
	00	15	10	15	-20	10	1
	2E	15	20	25	25	8	-1
	4E	8	20	12	70	12	-1
	6E	15	3	3	30	6	-1
	8E	10	4	8	30	12	-1
	10E	25	4	10	20	12	-1
	12E	8	4	10	20	10	-1
	14E	3	2	6	-20	10	-1
	16E	8	4	7	25	5	-1
	18E	7	5	20	30	15	2
	20E	10	4	8	40	10	-1
336S	22E	25	5	7	-20	10	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
336S	24E	30	25	15	25	12	5
	26E	15	15	15	25	12	4
	28E	20	10	8	25	10	3
	30E	20	10	8	30	12	4
	32E	25	25	10	25	12	4
	34E	25	50	10	50	15	5
	36E	80	30	10	30	40	7
	38E	250	15	7	30	10	5
	40E	25	15	7	20	10	5
	42E	30	30	8	50	12	-1
	44E	20	10	5	25	10	4
	46E	15	12	2	20	7	4
	48E	12	10	7	25	10	4
336S	50E	12	10	3	30	7	2
360S	20W	5	12	4	-20	8	-1
	18W	60	30	30	30	60	4
	16W	50	30	25	25	50	2
	14W	150	50	150	200	500	2
	12W	150	80	100	100	150	1
	10W	80	50	20	80	70	15
	8W	50	25	20	20	50	5
	6W	50	12	2	-20	15	2
	4W	60	15	15	-20	40	2
	2W	8	6	2	-20	8	-1
	00	10	6	6	-20	12	-1
	2E	8	6	3	20	12	-1
	4E	50	18	30	30	40	1
	6E	2 0	12	10	-20	15	1
	8E	18	10	10	20	20	2
	10E	25	10	12	20	30	2
	12E	100	80	80	500	80	-1
	14E	30	15	8	20	15	1
	16E	20	8	10	20	15	-1
	18E not drilled.						
	20E	25	20	25	40	60	-1
	22E	25	12	20	30	40	-1
	24E	18	15	12	25	15	2
	26E not sampled.						
	28E	15	8	5	-20	15	2
	30E	8	8	4	-20	12	-1
	32E	8	8	5	-20	8	-1
	34E not sampled.						
	36E	10	8	5	-20	8	-1
	38E	15	7	3	20	15	-1
360S	40E	20	15	6	-20	10	1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
360S	42E	20	12	4	-20	10	-1
	44E	25	15	5	-20	15	-1
	46E	15	7	4	20	10	2
	48E	10	5	2	-20	8	2
	50E	30	25	3	60	20	20
360S	52E	25	20	1	-20	6	8
384S	12W	20	20	1	20	12	1
	10W	25	30	2	30	15	1
	8W	40	70	7	25	25	2
	6W	200	60	15	120	70	2
	4W	120	25	60	700	500	-1
	2W	70	18	25	25	150	2
	00	50	15	25	25	70	4
	2E	30	12	10	30	25	1
	4E	40	20	40	20	40	2
	6E	30	12	15	-20	20	-1
	8E	50	18	15	25	20	1
	10E	50	25	25	20	70	3
	12E	20	8	12	20	15	1
	14E	40	15	25	-20	20	3
	16E	50	10	60	-20	50	5
	18E	20	20	40	50	60	-1
	20E	80	25	50	80	60	-1
	22E	30	15	40	80	50	2
	24E	20	15	5	-20	20	1
	26E	60	20	3	-20	30	-1
	28E	80	20	10	20	60	1
	30E	70	12	12	100	80	-1
	32E	60	30	15	60	80	3
	34E	50	15	12	50	40	-1
	36E	40	18	10	-20	25	1
	38E	80	60	70	50	60	2
	40E	80	50	50	50	100	2
	42E	50	25	20	25	50	-1
	44E	60	30	30	20	50	2
	46E	50	40	40	20	50	3
384S	48E	40	15	10	-	10	3
408S	20W	40	20	15	-20	20	2
	18W	20	20	8	20	15	3
	16W	40	18	10	20	20	3
	14W	30	25	10	-20	25	3
	12W	20	12	40	-20	15	2
	10W	25	25	10	-20	20	2
	8W	40	25	20	25	30	-1
408S	6W	50	25	25	25	60	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
408S	4W	40	20	10	20	50	1
	2W	60	40	15	25	50	2
	00	40	25	12	-20	25	-1
	2E	80	20	30	150	500	-1
	4E	70	50	40	30	100	2
	6E	60	50	25	25	100	1
	8E	40	18	20	-20	60	2
	10E	80	12	30	100	80	3
	12E	40	30	30	60	50	-1
	14E	30	20	15	50	25	1
	16E	50	25	40	60	50	4
	18E	8	8	3	-20	5	-1
	20E	70	40	30	25	70	-1
	22E	60	50	25	25	70	2
	24E	50	15	20	-20	80	2
	26E	40	12	10	-20	25	-1
	28E	60	20	20	25	80	2
	30E	70	150	100	250	200	30
	32E	70	15	20	30	60	2
	34E	50	15	12	40	50	2
	36E	80	50	50	40	60	25
	38E	60	30	30	25	60	3
	40E	150	15	50	150	70	3
408S	42E	120	25	30	50	100	50
432S	52W	30	18	6	-20	10	-1
	50W	20	12	5	-20	10	1
	48W	30	15	10	-20	15	-1
	46W	25	15	8	-20	15	1
	44W	40	18	15	20	30	2
	42W	50	50	20	200	100	2
	40W	60	25	25	40	60	5
	38W	40	15	10	25	40	3
	36W	60	15	25	40	60	2
	34W	70	8	60	150	70	-1
	32W	80	5	70	60	80	1
	30W	500	8	70	50	100	-1
	28W	150	40	30	25	100	-1
	26W	300	60	300	200	400	250
	24W	60	25	25	20	50	2
	22W	200	100	100	25	500	25
	20W	150	60	80	100	400	25
	18W	50	20	60	25	100	4
	16W	60	40	60	25	70	7
	14W	80	60	70	25	80	7
432S	12W	80	50	100	400	150	6

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
432S	10W	40	80	50	250	60	2
	8W	80	30	80	200	70	3
	6W	100	30	80	400	70	1
	4W	70	70	15	600	40	5
	2W	40	6	60	40	60	-1
	00	50	200	40	200	40	2
	2E	50	8	40	25	25	2
	4E	200	20	60	200	50	12
	6E	80	30	50	30	200	10
	8E	50	30	30	30	200	2
	10E	150	70	40	40	150	20
	12E	60	25	12	20	40	7
	14E	70	20	15	25	30	6
	16E	150	25	40	25	80	3
	18E	80	10	20	25	50	3
	20E	100	25	30	40	60	12
	22E	50	10	50	30	40	5
	24E	80	30	50	30	70	15
	26E	80	10	50	150	60	3
	28E	60	20	25	30	40	20
	30E	70	18	15	-20	15	-1
432S	32E	70	25	25	80	50	25
456S	72W	80	40	40	80	80	6
	70W	100	20	25	40	60	4
	68W	70	25	60	250	70	5
	66W	25	25	10	-20	60	-1
	64W	20	15	7	-20	20	1
	62W	25	30	10	20	30	4
	60W	25	25	8	20	30	8
	58W	25	18	8	-20	30	4
	56W	50	30	40	30	40	5
	54W	60	60	40	50	60	5
	52W	70	50	30	50	60	6
	50W	80	60	25	60	80	4
	48W	80	50	25	70	60	8
	46W	30	20	15	-20	50	1
	44W	80	30	25	25	60	5
	42W	60	18	25	20	30	2
	40W	70	50	70	30	80	12
	38W	60	40	20	40	50	7
	36W	60	50	70	30	100	5
	34W	60	20	25	-20	30	2
	32W	60	20	60	500	150	6
	30W	40	12	50	200	60	-1
	28W	250	60	40	250	50	8
456S	26W	25	25	80	150	150	3

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
456S	24W	60	20	40	60	40	4
	22W	200	8	5	-20	15	-1
	20W	50	15	18	20	25	3
	18W	250	40	20	20	40	-1
	16W	40	12	15	-20	10	2
	14W	not sampled.					
	12W	not sampled.					
	10W	30	40	4	-20	12	4
	8W	80	18	6	-20	15	-1
	6W	100	15	18	25	50	5
	4W	300	25	25	200	80	10
	2W	150	12	80	500	200	-1
	00	150	40	70	500	150	-1
	2E	150	20	15	50	30	8
	4E	150	10	18	30	40	1
	6E	80	18	15	25	30	8
	8E	80	10	30	-20	25	-1
	10E	150	8	18	80	40	-1
	12E	500	25	25	25	18	4
	14E	50	12	30	300	60	-1
	16E	60	12	100	25	50	2
	18E	100	30	15	50	50	50
	20E	70	20	25	40	40	30
	22E	100	20	20	30	40	60
456S	24E	70	12	15	-20	25	20
480S	124W	80	25	60	25	80	10
	122W	200	40	60	30	100	40
	120W	80	30	30	50	50	5
	118W	100	60	70	40	200	25
	116W	400	40	80	30	150	15
	114W	80	60	70	25	70	25
	112W	100	50	60	30	70	5
	110W	60	30	15	20	60	2
	108W	70	25	20	25	60	2
	106W	70	25	20	20	50	-1
	104W	120	60	70	30	150	50
	102W	60	40	50	25	50	2
	100W	100	50	70	40	80	7
	98W	80	40	60	40	70	7
	96W	60	30	50	50	60	2
	94W	100	50	80	60	80	5
	92W	50	15	20	25	30	3
	90W	70	40	40	30	50	6
	88W	80	30	60	40	50	8
	86W	150	18	50	25	70	8
480S	84W	50	20	20	100	50	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	COBALT	ZINC	NICKEL	MOLYBDENUM
480S	82W	40	15	15	40	40	2
	80W	600	20	40	70	70	10
	78W	70	60	25	80	50	25
	76W	80	60	12	80	40	50
	74W	250	20	25	100	80	50
	72W	80	15	60	50	70	4
	70W	70	10	50	40	70	2
	68W	40	8	40	25	60	2
	66W	25	6	30	25	40	-1
	64W	25	10	50	60	60	-1
	62W	80	18	40	20	70	4
	60W	70	8	20	20	50	3
	58W	40	5	60	-20	80	5
	56W	60	25	15	-20	60	2
	54W	80	25	25	-20	60	8
	52W	70	20	40	40	70	15
	50W	40	12	50	-20	100	4
	48W	200	18	70	20	200	5
	46W	70	20	40	-20	80	-1
	44W	80	18	25	-20	60	1
	42W	200	20	25	20	120	1
	40W	70	25	15	20	80	8
	38W	60	18	15	20	70	1
	36W	60	20	30	25	100	5
	34W	50	15	15	40	150	4
	32W	50	18	12	40	70	4
	30W	120	20	20	80	150	6
	28W	50	12	12	200	30	1
	26W	40	6	15	25	40	4
	24W	60	5	40	150	60	5
	22W	150	18	50	200	80	1
	20W	200	18	50	150	50	-1
	18W	120	12	60	150	50	2
	16W	70	6	40	120	30	-1
	14W	80	5	12	120	25	-1
	12W	150	12	50	200	70	-1
	10W	120	15	50	150	50	1
	8W	80	30	50	200	80	1
	6W	150	20	50	150	250	-1
	4W	70	60	25	25	40	5
	2W	40	40	20	30	50	40
	00	50	18	1	-20	10	20
	2E	40	20	1	-20	5	30
480S	4E	40	12	2	20	5	15

-20 = Less than 20 p.p.m.

APPENDIX 4

SAMPLE ANALYSIS

RUM JUNGLE TRIANGLE AREA

(Semi quantitative spectrographic analysis by Australian Mineral Development Laboratories in parts per million.)

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
30N	98E	10	5	-20	3	6	-	-1
	96E	7	18	-20	4	6	-	-1
	94E to 84E not drilled.							
30N	82E	12	10	-20	10	8	-	2
34N	102E	15	8	-20	10	15	-	7
	100E	7	15	-20	3	5	-	-1
	98E	10	15	-20	4	10	-	-1
	96E	7	15	-20	4	6	-	-1
	94E to 90E not drilled.							
	88E	10	10	-20	4	7	-	1
	86E	8	8	-20	3	6	-	-1
	84E	8	8	-20	1	7	-	-1
34N	82E	8	7	-20	5	6	-	-1
38N	104E	10	15	25	40	20	-	1
	102E	10	10	-20	6	8	-	-1
	100E	40	5	30	7	10	-	1
	98E	30	30	-20	30	12	-	2
	96E	5	5	-20	5	5	-	-1
	94E	20	15	-20	8	8	-	-1
	92E	-	-	-	-	-	-	-
	90E	12	10	-20	5	7	-	1
	88E	10	8	-20	5	7	-	1
	86E	12	15	30	5	7	-	1
	84E	20	300	600	6	10	-	-1
38N	82E	10	10	25	4	10	-	1
42N	108E	10	7	-20	5	12	-	-1
	106E	10	10	-20	5	12	-	-1
	104E	7	7	30	10	20	-	-1
	102E	10	5	-20	2	5	-	2
	100E	10	25	40	3	7	-	-1
	98E	5	5	20	20	40	-	-1
	96E	5	3	-20	3	5	-	-1
	94E	20	20	-20	10	10	-	5
	92E	12	8	-20	4	6	-	-1
	90E	15	15	-20	8	7	-	5
	88E	15	15	-20	5	6	-	3
	86E	12	10	-20	4	6	-	2
	84E	12	8	-20	7	7	-	-1
42N	82E	12	10	20	4	8	-	7

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
46N	108E	7	10	20	2	10		-1
	106E	8	7	20	2	5		-1
	104E	15	10	20	2	3		-1
	102E	10	10	20	6	10		-1
	100E	7	4	30	15	10		-1
	98E	7	2	100	15	30		-1
	96E	80	15	20	10	15		-1
	94E	7	15	-20	6	10		-1
	92E	12	12	-20	4	10		-1
	90E	8	8	-20	4	7		-1
	88E	10	8	-20	4	8		-1
	86E	8	8	-20	4	8		-1
	84E	10	10	-20	3	8		2
46N	82E	8	10	-20	5	7		-1
50N	102E	12	15	20	5	8		2
	100E	15	18	20	10	15		4
	98E	8	15	-20	5	6		-1
	96E	7	15	-20	4	5		-1
	94E	-	-	-	-	-		-
	92E	15	10	-20	4	8		4
	90E	10	12	-20	4	7		3
	88E	10	12	-20	4	7		-1
	86E	12	12	-20	4	7		2
	84E	12	15	-20	4	7		5
50N	82E	8	8	25	3	8		-1
54N	120E	12	20	30	4	7		2
	118E	10	5	25	3	6		1
	116E	12	10	20	2	7		-1
	114E	10	5	-20	5	7		-1
	112E	-	-	-	-	-		-
	110E	-	-	-	-	-		-
	108E	-	-	-	-	-		-
	106E	5	3	25	3	6		-1
	104E	12	10	25	5	8		-1
	102E	10	15	-20	6	7		-1
	100E	7	12	20	4	6		-1
	98E	10	12	20	8	6		-1
	96E	-	-	-	-	-		-
	94E	6	6	-20	5	6		-1
	92E	6	6	-20	3	6		-1
	90E	6	8	-20	4	6		-1
	88E	6	6	-20	10	6		-1
	86E	8	8	-20	2	8		-1
54N	84E	10	15	50	5	12		-1

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
58N	102E	10	10	-20	4	8		1
	100E	8	8	-20	5	7		-1
	98E	8	10	-20	4	6		-1
	96E	10	10	-20	3	7		4
	94E	10	15	-20	4	7		2
	92E	8	8	40	4	20		-1
	90E	10	15	-20	10	8		-1
	88E	15	8	-20	4	7		1
	86E	5	5	-20	-1	5		-1
58N	84E	30	15	25	4	15		5
62N	104E	50	8	-20	8	8		-1
	102E	40	5	-20	20	8		-1
	100E	30	8	-20	4	20		-1
	98E	10	8	-20	2	7		-1
	96E	8	5	-20	15	7		-1
	94E	8	15	-20	4	7		-1
	92E	8	12	-20	5	6		-1
	90E	8	8	-20	5	8		-1
	88E	8	8	-20	1	8		-1
	86E	6	7	-20	1	4		-1
62N	84E	6	7	-20	7	4		-1
66N	108E	10	10	-20	3	6		-1
	106E	12	5	-20	2	7		-1
	104E	8	5	-20	-1	7		1
	102E	15	6	-20	5	15		1
	100E	15	6	-20	4	15		2
	98E	12	6	-20	4	15		2
	96E	10	15	-20	5	8		7
	94E	8	15	-20	7	10		1
	92E	8	7	-20	3	10		-1
	90E	15	15	-20	4	12		1
	88E	10	8	-20	3	10		1
	86E	15	18	30	4	15		1
66N	84E	8	12	-20	2	5		-1
70N	110E	8	8	-20	3	6		-1
	108E	8	8	-20	3	6		2
	106E	25	15	25	5	20		7
	104E	20	8	-20	5	12		-1
	102E	20	20	-20	3	10		-1
	100E	15	12	-20	5	10		1
	98E	20	15	-20	3	7		2
	96E	10	12	-20	3	8		-1
70N	94E	8	12	-20	4	8		-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
70N	92E	8	10	-20	5	7		-1
	90E	12	15	20	7	15		-1
	88E	15	15	-20	7	8		-1
	86E	15	8	25	4	15		1
70N	84E	10	10	-20	4	8		1
74N	116E	8	12	-20	3	5		10
	114E	12	15	-20	5	8		3
	112E	8	15	-20	2	5		3
	110E	8	10	-20	1	7		2
	108E	10	20	-20	3	15		-1
	106E	15	20	-20	5	20		2
	104E	8	15	-20	3	8		-1
	102E	20	30	-20	10	10		4
	100E	15	10	-20	2	10		-1
	98E	20	7	-20	4	20		-1
	96E	7	6	-20	2	5		-1
	94E	8	12	-20	2	7		-1
	92E	5	6	-20	1	4		-1
	90E	10	12	-20	4	5		2
	88E	8	8	-20	4	4		1
	86E	15	25	25	5	10		-1
74N	84E	12	12	-20	4	10		-1
78N	114E	25	30	25	15	15	4	1
	112E	15	25	20	12	12	3	-1
	110E	25	25	25	12	12	3	3
	108E	25	20	20	12	15	3	3
	106E	25	25	30	12	15	4	2
	104E	25	25	25	15	20	4	3
	102E	30	25	25	12	15	4	3
	100E	15	20	20	12	15	3	1
	98E	30	20	20	15	25	3	1
	96E	25	20	-20	15	25	3	4
	94E	25	20	25	12	25	3	1
	92E	30	20	40	12	40	4	3
	90E	15	15	20	8	15	2	3
	88E	30	25	20	10	18	3	12
	86E	20	25	25	8	20	3	10
78N	84E	20	50	20	6	20	3	8
82N	118E	25	15	20	18	20	3	2
	116E	25	25	25	15	15	3	2
	114E	25	20	25	8	20	3	4
	112E	25	25	25	15	20	3	7
82N	110E	20	25	20	12	20	2	5

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
82N	108E	25	25	25	15	15	3	5
	106E	30	30	20	15	15	3	3
	104E	30	40	25	18	15	3	1
	102E	40	50	30	20	20	4	1
	100E	40	40	25	15	25	4	1
	98E	30	20	20	12	15	3	5
	96E	50	25	20	10	25	3	4
	94E	60	50	20	15	30	3	4
	92E	60	40	25	15	40	3	5
	90E	600	60	30	15	15	5	7
	88E	60	80	50	15	50	1	12
	86E	30	25	20	12	25	3	3
82N	84E	30	50	40	10	25	3	4
86N	118E	20	15	20	15	15	2	1
	116E	40	30	25	25	40	4	3
	114E	30	25	25	20	30	3	3
	112E	40	25	25	20	30	4	3
	110E	20	25	25	20	20	3	-1
	108E	40	25	25	20	30	3	1
	106E	30	30	25	20	30	3	1
	104E	30	20	25	20	30	3	-1
	102E	40	15	20	20	25	2	10
	100E	50	30	20	25	25	4	2
	98E	200	25	20	40	50	7	6
	96E	50	15	20	8	25	3	5
	94E	60	30	25	8	30	3	4
	92E	600	30	60	10	30	5	3
	90E	25	25	25	8	15	3	2
	88E	50	60	100	40	30	3	1
	86E	15	30	30	20	30	2	10
86N	84E	15	25	25	25	25	2	-1
90N	114E	40	25	30	20	20	3	3
	112E	30	30	30	20	20	4	2
	110E	40	30	25	20	25	4	1
	108E	30	30	25	20	25	3	1
	106E	40	50	25	40	30	3	-1
	104E	60	50	25	40	40	3	2
	102E	60	25	20	20	25	3	4
	100E	80	20	40	50	60	3	8
	98E	800	60	25	300	400	5	20
	96E	40	30	-20	10	15	4	4
	94E	60	40	30	10	15	3	5
	92E	300	50	150	30	60	4	1
90N	90E	25	100	200	15	15	2	1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
90N	88E	30	25	40	25	20	2	1
	86E	40	50	80	12	20	3	-1
	84E	20	15	30	12	15	2	-1
	82E	60	200	50	8	15	3	4
	80E	15	50	25	10	20	4	1
	78E	20	25	20	6	15	2	3
	76E	40	25	25	10	15	3	3
	74E	40	30	25	12	25	3	3
	72E	30	15	100	10	20	3	-1
	70E	25	50	20	12	40	6	20
	68E	30	50	20	15	20	3	7
	66E	25	40	25	15	40	8	6
	64E	20	15	-20	12	25	2	5
	62E	20	15	-20	25	20	3	1
	60E	30	15	30	15	20	10	5
	58E	10	15	20	5	15	3	4
90N	56E	30	150	70	40	50	2	1
94N	114E	30	25	30	15	25	4	1
	112E	25	25	30	25	20	3	3
	110E	40	30	30	15	20	4	-1
	108E	40	30	25	15	15	3	1
	106E	40	15	25	15	15	3	2
	104E	60	40	200	150	250	3	15
	102E	60	25	30	70	60	3	40
	100E	50	15	-20	20	15	3	2
	98E	300	40	20	20	50	4	15
	96E	400	20	20	60	250	3	8
	94E	40	30	25	15	15	3	3
	92E	60	40	25	15	20	4	4
	90E	200	50	200	20	60	3	3
	88E	50	150	100	30	10	3	3
94N	86E	15	20	40	15	15	2	1
98N	116E	20	25	20	10	15	2	8
	114E	10	20	20	10	10	1	30
	112E	10	15	20	15	15	2	20
	110E	40	25	80	30	30	4	5
	108E	10	5	40	20	25	3	2
	106E	50	25	25	30	50	2	8
	104E	70	30	50	60	200	3	15
	102E	40	25	30	40	60	5	5
	100E	60	100	25	50	100	5	10
	98E	150	70	25	60	150	40	20
	96E	1000	60	150	150	700	7	10
98N	94E	30	15	25	15	20	3	1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
98N	92E	5	50	20	20	7	4	3
	90E	40	60	-20	7	12	3	2
	88E	80	60	150	30	15	4	4
98N	86E	40	30	40	10	10	3	1
102N	116E	25	25	20	10	15	2	8
	114E	20	20	20	10	15	2	10
	112E	25	25	-20	12	20	1	5
	110E	20	25	25	12	15	1	8
	108E	40	10	80	20	80	1	1
	106E	40	20	150	80	600	1	15
	104E	60	20	150	80	700	1	7
	102E	150	20	200	400	1500	2	3
	100E	70	50	25	50	150	6	20
	98E	250	40	400	40	700	5	6
	96E	150	70	200	40	1200	6	10
	94E	100	30	30	50	25	5	15
	92E	25	50	25	15	12	2	15
	90E	10	25	-20	2	5	1	4
	88E	200	500	200	80	100	1	8
102N	86E	25	25	25	40	50	1	3
106N	146E	40	40	20	20	15	4	3
	144E	5	100	20	4	5	2	15
	142E	6	50	25	10	8	2	7
	140E	15	30	20	12	15	3	15
	138E	5	40	20	10	8	2	10
	136E	10	50	25	10	10	3	15
	134E	4	50	25	3	3	3	15
	132E	8	80	20	3	4	5	10
	130E	30	70	25	3	6	3	7
	128E	5	80	25	3	6	3	4
	126E	20	20	80	25	80	3	3
	124E	40	20	100	25	80	3	-1
	122E	15	40	20	4	10	3	6
	120E	25	30	25	25	15	4	60
	118E	30	40	30	15	20	4	2
	116E	30	40	30	15	20	4	2
	114E	30	40	30	15	20	4	4
	112E	25	25	25	12	15	3	2
	110E	20	30	20	20	20	3	10
	108E	30	30	40	40	50	3	8
	106E	30	25	30	15	20	3	1
	104E	200	30	250	200	600	5	8
	102E	20	15	-20	10	15	3	2
106N	100E	25	20	25	10	15	3	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
106N	98E	25	20	20	12	15	3	4
	96E	200	100	80	250	700	7	20
	94E	70	20	40	15	150	5	-1
	92E	600	200	25	12	30	4	15
	90E	10	50	25	10	12	1	3
	88E	30	50	30	15	15	2	15
106N	86E	50	800	400	15	30	3	1
110N	144E	40	30	25	20	25	4	5
	142E	12	60	25	15	15	4	10
	140E	10	60	25	10	10	3	15
	138E	8	60	25	8	8	2	10
	136E	15	30	25	8	20	4	8
	134E	5	50	25	10	5	2	3
	132E	15	25	20	3	4	3	8
	130E	4	70	25	4	4	1	20
	128E	12	60	25	5	5	3	8
	126E	12	15	20	6	15	3	20
	124E	10	15	-20	4	12	3	6
	122E	40	25	50	25	20	3	25
	120E	5	60	25	4	7	2	10
	118E	30	25	25	5	10	4	2
	116E	10	20	25	4	7	3	20
	114E	40	25	30	20	25	4	3
	112E	40	30	30	25	20	4	3
	110E	40	30	40	15	25	4	3
	108E	40	25	30	15	20	4	3
	106E	30	30	30	15	20	4	2
	104E	60	40	20	40	70	3	15
	102E	40	30	-20	25	30	2	5
	100E	50	30	80	50	400	2	8
	98E	50	40	30	50	60	3	12
	96E	40	30	30	25	60	4	5
	94E	25	30	20	15	25	3	5
	92E	150	100	25	30	60	4	20
	90E	15	40	40	70	50	8	4
	88E	40	15	25	15	25	3	15
	86E	40	25	40	15	30	5	-1
	84E	20	30	25	15	20	4	-1
	82E	15	20	25	15	25	4	-1
	80E	40	25	50	10	20	4	2
	78E	30	50	100	15		4	1
	76E	30	20	70	12	25	3	-1
	74E	30	25	60	15	30	4	10
	72E	30	40	25	15	30	5	4
110E	70E	40	20	100	20	25	2	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
110N	68E	25	25	25	8	15	4	12
	66E	25	25	30	12	15	3	1
	64E	15	20	40	15	15	3	2
	62E	15	25	30	12	15	3	2
	60E	40	25	40	15	20	4	2
	58E	25	25	25	12	15	4	3
	56E	25	20	20	10	15	3	15
	54E	25	20	30	15	15	3	-1
	52E	8	15	30	8	10	3	10
110N	50E	8	25	30	12	15	3	-1
114N	144E	50	20	25	15	20	3	-1
	142E	40	25	25	30	40	4	3
	140E	30	25	20	20	30	4	2
	138E	30	25	20	15	20	4	4
	136E	50	30	25	25	40	4	4
	134E	50	25	25	25	30	4	4
	132E	25	20	-20	15	10	4	4
	130E	15	40	-20	5	7	4	25
	128E	40	25	25	20	30	4	2
	126E	40	25	25	20	25	3	20
	124E	25	20	-20	4	10	4	3
	122E	20	15	-20	6	15	3	1
	120E	15	12	-20	6	8	3	1
	118E	25	15	40	12	10	2	4
	116E	-	-	-	-	-	-	-
	114E	40	30	25	15	15	4	2
	112E	15	8	-20	6	8	3	7
	110E	20	20	80	20	60	6	6
	108E	20	15	-20	10	12	3	-1
	106E	30	30	30	25	40	4	-1
	104E	50	40	100	60	250	10	15
	102E	60	15	200	40	50	3	3
	100E	200	25	500	50	300	2	1
	98E	150	40	200	100	400	7	7
	96E	500	100	300	50	500	12	20
	94E	500	50	300	50	1200	12	8
	92E	300	30	100	200	2500	12	4
	90E	30	25	25	25	40	5	10
	88E	15	20	-20	15	15	3	4
114N	86E	25	15	40	20	20	4	1
118N	128E	50	40	20	25	40	4	4
	126E	50	30	30	25	50	3	7
	124E	20	15	20	8	15	2	3
118N	122E	25	15	25	15	15	3	4

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
118N	120E	10	20	20	8	7	3	5
	118E	15	20	25	15	10	4	6
	116E	12	12	20	10	8	4	1
	114E	12	50	25	6	7	2	7
	112E	20	15	25	40	40	3	20
	110E	15	12	60	15	30	3	-1
	108E	80	8	20	40	30	3	-1
	106E	40	60	30	70	100	3	25
	104E	30	80	20	10	50	3	7
	102E	25	40	25	10	25	4	15
	100E	100	60	200	40	600	3	12
	98E	200	25	400	60	1000	6	8
	96E	1000	40	400	40	1500	15	80
	94E	500	40	250	30	700	10	25
	92E	300	40	150	60	1200	12	50
	90E	30	15	20	15	20	3	-1
	88E	30	20	25	15	20	3	3
118N	86E	40	25	60	20	25	3	4
122N	124E	40	25	25	20	30	3	1
	122E	30	25	30	25	30	4	2
	120E	30	25	25	15	25	3	3
	118E	25	25	20	12	20	3	2
	116E	25	30	40	10	15	4	7
	114E	10	30	25	8	12	3	6
	112E	15	8	30	30	150	4	3
	110E	50	25	50	30	150	7	8
	108E	50	10	80	25	60	3	1
	106E	40	15	25	20	100	3	1
	104E	70	60	40	20	100	6	5
	102E	20	25	25	3	10	2	4
	100E	25	20	25	8	15	3	20
	98E	800	30	800	40	800	10	10
	96E	1500	50	200	40	700	15	25
	94E	600	40	80	40	500	5	25
	92E	50	30	30	25	200	4	8
	90E	25	50	40	15	10	3	15
	88E	40	25	40	12	15	3	5
122N	86E	25	50	40	15	25	3	10
126N	120E	No sample. Not drilled.						
	118E	20	25	20	10	7	3	2
	116E	25	70	30	4	4	3	4
	114E	40	20	-20	15	30	2	12
	112E	60	100	250	70	150	8	10
126N	110E	60	40	25	30	40	10	7

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
126N	108E	30	10	30	15	40	4	-1
	106E	80	25	50	60	200	8	5
	104E	10	15	-20	3	10	3	2
	102E	20	25	20	4	20	2	2
	100E	50	25	40	6	25	1	10
	98E	40	25	-20	8	20	3	4
	96E	30	40	20	20	12	4	2
	94E	50	100	30	8	30	4	20
	92E	20	25	60	15	30	3	-1
	90E	30	25	40	25	20	3	-1
	88E	15	25	40	12	12	3	12
126N	86E	18	25	50	20	25	3	15
130N	120E	15	15	-2I	4	5	2	12
	118E	15	40	20	5	7	3	6
	116E	30	25	25	15	20	3	25
	114E	15	5	20	6	8	10	4
	112E	25	15	20	25	30	8	3
	110E	50	25	25	15	40	8	8
	108E	25	15	100	25	100	6	2
	106E	70	15	200	60	200	10	7
	104E	12	20	-20	3	10	3	10
	102E	18	12	-20	7	15	4	4
	100E	30	15	25	7	15	3	5
	98E	20	15	70	25	40	4	2
	96E	20	100	100	7	8	4	4
	94E	40	30	100	40	30	3	1
	92E	30	30	100	25	20	4	3
	90E	20	30	80	30	20	3	2
	88E	40	40	80	25	25	4	-1
	86E	25	20	25	8	15	5	1
	84E	40	40	80	20	25	6	1
	82E	30	20	20	20	25	5	1
	80E	150	60	100	30	40	10	1
	78E	15	20	80	20	25	4	1
	76E	25	15	30	20	25	5	2
	74E	40	40	100	40	25	4	8
	72E	30	20	100	30	30	5	3
	70E	50	40	250	60	50	6	-1
	68E	60	50	200	40	40	4	-1
	66E	40	50	150	30	25	5	-1
	64E	60	50	150	30	40	4	-1
	62E	80	50	250	60	50	4	-1
	60E	70	40	200	30	50	6	1
	58E	25	15	30	15	25	3	2
	56E	20	12	40	8	15	4	8
130N	54E	20	40	60	18	15	3	3

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
130N	52E	20	20	100	30	25	3	2
130N	50E	15	40	150	25	40	2	2
134N	122E	7	50	25	4	4	3	3
	120E	8	20	25	5	5	8	4
	118E	60	10	80	25	40	2	10
	116E	15	8	30	40	50	6	-1
	114E	70	25	150	30	60	12	1
	112E	60	25	200	40	70	6	3
	110E	50	15	50	40	80	4	2
	108E	70	40	200	100	150	5	10
	106E	80	25	150	25	50	5	1
	104E	20	30	30	50	30	2	2
	102E	8	15	25	12	10	1	1
	100E	20	20	25	25	15	3	3
	98E	20	12	30	20	30	2	-1
	96E	60	60	100	25	15	2	3
	94E	30	40	50	25	20	2	5
	92E	40	25	40	25	20	2	-1
134N	90E	30	25	20	20	15	2	6
138N	122E	20	30	25	8	15	5	30
	120E	20	20	20	10	40	3	5
	118E	100	70	200	30	200	10	2
	116E	50	15	150	20	80	4	-1
	114E	25	12	80	40	100	4	1
	112E	70	18	80	40	80	5	4
	110E	8	10	20	10	40	2	-1
	108E	70	30	50	25	50	5	5
	106E	20	50	50	40	40	3	2
	104E	12	12	25	50	40	2	-1
	102E	10	25	25	40	50	3	1
	100E	25	30	30	25	30	2	7
	98E	50	15	25	40	40	1	3
	96E	40	40	80	25	25	3	1
	94E	25	18	30	30	20	3	20
	92E	25	18	25	5	10	3	7
138N	90E	30	20	25	15	20	3	7
142N	122E	40	25	25	20	15	5	2
	118E	40	25	25	20	20	7	2
	116E	30	10	40	30	80	4	-1
	114E	50	25	70	50	70	5	2
	112E	40	10	50	20	50	4	-1
	110E	40	15	25	40	30	3	2
142N	108E	25	10	20	12	15	4	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
142N	106E	25	10	20	20	20	3	-1
	104E	20	20	20	15	18	3	3
	102E	25	25	40	25	30	2	8
	100E	15	12	20	8	10	2	1
	98E	20	25	50	20	20	1	-1
	96E	15	30	30	15	20	2	1
	94E	15	15	30	15	15	2	1
	92E	20	25	40	15	18	1	2
142N	90E	40	25	30	20	20	2	2
146N	120E	8	12	-20	4	7	2	1
	118E	40	25	30	50	40	3	7
	116E	30	20	25	15	15	3	-1
	114E	30	12	-20	12	18	3	30
	112E	80	30	100	40	40	3	2
	110E	12	25	25	8	15	3	1
	108E	12	8	25	60	25	3	-1
	106E	12	12	20	20	40	2	5
	104E	40	40	20	100	60	10	25
	102E	40	40	-20	15	12	4	10
	100E	15	25	40	30	20	4	5
	98E	12	15	25	12	15	3	4
	96E	15	25	30	25	30	3	15
	94E	15	40	25	12	30	4	25
	92E	12	20	25	15	25	3	4
146N	90E	12	20	25	12	25	3	1
150N	128E	6	3	-20	3	-	15	7
	126E	6	5	25	3	-	30	-1
	124E	8	5	100	40	-	50	-1
	122E	12	15	-20	50	-	12	-1
	120E	12	15	-20	15	-	8	15
	118E	-	-	-	-	-	-	-
	116E	30	15	40	15	20	3	-1
	114E	30	15	25	25	20	3	4
	112E	20	12	20	8	15	2	1
	110E	25	15	25	30	25	2	2
	108E	15	25	20	8	15	2	1
	106E	-	-	-	-	-	-	-
	104E	100	25	250	80	100	3	1
	102E	12	20	25	25	20	2	3
	100E	60	40	40	30	30	4	5
	98E	30	25	40	12	15	3	1
	96E	25	20	25	10	12	2	20
	94E	15	30	25	15	12	3	18
150N	92E	25	20	-20	12	15	2	25

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
150N	90E	30	25	25	15	15	2	5
	88E	40	40	-20	18	25	5	50
	86E	30	20	30	18	20	3	-1
	84E	20	20	40	20	15	4	2
	82E	10	15	30	12	15	4	1
	80E	20	15	50	15	12	3	10
	78E	20	15	20	8	12	3	3
	76E	20	30	80	25	20	3	2
	74E	50	30	60	40	25	4	-1
	72E	15	25	50	25	20	3	1
	70E	8	10	25	15	12	3	-1
	68E	10	10	20	20	15	3	1
	66E	70	100	200	70	50	2	3
	64E	50	25	200	20	15	3	3
	62E	40	50	150	25	25	4	5
150N	60E	30	40	-20	20	20	3	7
154N	132E	15	5	-20	3	-	12	4
	130E	30	5	40	10	-	12	2
	128E	10	3	50	4	-	12	-1
	126E	12	25	30	80	-	50	-1
	124E	8	8	-20	2	-	10	7
	122E	15	20	-20	7	-	12	6
	120E	7	8	-20	5	-	6	-1
	118E	7	20	-20	6	-	7	-1
	116E	-	-	-	-	-	-	-
	114E	-	-	-	-	-	-	-
	112E	-	-	-	-	-	-	-
	110E	15	20	25	15	15	3	1
	108E	8	20	20	10	12	3	2
	106E	15	2	70	7	10	-	-1
	104E	50	40	100	20	25	3	3
	102E	150	20	200	60	102	3	-1
	100E	70	30	200	30	25	2	5
	98E	25	15	50	15	20	3	1
	96E	25	20	40	20	40	3	2
	94E	40	15	25	15	25	3	3
	92E	30	20	40	15	25	2	1
154N	90E	25	30	40	20	25	1	-1
158N	138E	8	7	-20	1	8	-	1
	136E	10	7	-20	1	10	-	-1
	134E	5	5	-20	1	5	-	-1
	132E	10	7	-20	1	6	-	-1
	130E	10	8	-20	3	10	-	4
158N	128E	7	3	-20	1	5	-	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
158N	126E	10	10	-20	30	40	-	6
	124E	8	10	-20	15	20	-	4
	122E	8	30	-20	25	20	-	6
	120E	8	7	-20	5	15	-	3
	118E	8	10	-20	5	15	-	4
	116E	15	10	40	60	100	-	7
	114E	70	25	60	12	250	-	3
	112E	7	7	-20	4	6	-	-1
	110E	8	20	-20	5	7	-	8
	108E	20	25	20	30	20	2	15
	106E	60	250	300	15	15	4	12
	104E	80	25	20	7	20	4	40
	102E	70	20	30	15	15	3	-1
	100E	25	25	20	10	15	4	1
	98E	70	1500	150	200	100	3	40
	96E	20	15	20	10	10	3	-1
	94E	12	15	20	8	10	3	1
	92E	8	20	20	6	15	4	2
158N	90E	15	20	40	25	20	3	-1
162N	182E	25	60	25	10	4	-	4
	180E	80	20	200	100	15	-	2
	178E	150	15	80	40	4	-	-1
	176E	50	80	25	8	5	-	-1
	174E	15	80	25	6	5	-	3
	172E not drilled.							
	170E	100	30	20	7	15	-	4
	168E	80	40	25	70	2	-	2
	166E	12	15	-20	5	-	2	3
	164E not drilled.							
	162E	15	12	20	6	-	4	1
	160E	20	10	20	5	-	3	2
	158E	25	30	20	7	-	8	8
	156 E	12	25	20	4	-	7	3
	154E	40	30	40	15	-	10	25
	152E	100	50	500	80	-	10	4
	150E	15	25	20	2	-	5	-1
	148E	150	10	80	15	-	6	2
	146E	40	50	30	12	-	5	5
	144E	50	40	20	10	-	8	6
	142E	50	50	20	15	-	10	8
	140E	40	60	20	15	-	10	6
	138E	30	40	-20	4	-	8	2
	136E	50	80	25	15	-	7	7
	134E	40	50	-20	4	-	6	3
162N	132E	15	15	-20	1	-	3	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
162N	130E	80	40	40	80	-	3	15
	128E	30	70	20	10	-	6	5
	126E	80	60	500	150	-	7	15
	124E	60	20	2000	60	-	25	2
	122E	20	5	250	50	-	4	-1
	120E	80	15	300	50	-	5	-1
	118E	60	40	700	70	-	25	-1
	116E	150	60	600	60	-	15	7
	114E	20	15	40	40	-	8	3
	112E	1000	80	150	60	-	20	25
	110E	40	30	-20	10	-	3	-1
	107.9E	15	18	20	10	8	2	5
	105E	40	15	40	20	20	-	-1
	104E	100	60	50	25	50	6	50
	102E	300	100	800	60	60	4	-1
	103E	15	10	40	20	20	-	-1
	102.5E	10	3	30	8	10	-	-1
	100E	60	25	30	15	20	5	8
	98E	30	20	20	12	10	2	1
	96E	15	25	50	10	20	3	1
	94E	40	15	80	15	40	4	1
	92E	10	15	20	5	10	2	2
162N	90E	15	15	30	15	20	1	1
166N	182E	15	25	25	8	-	5	4
	180E	12	10	25	12	-	5	4
	178E	20	50	50	50	-	4	8
	176E	80	40	800	300	-	7	25
	174E	20	8	500	200	-	6	3
	172E	12	40	-20	3	-	3	-1
	170E	60	15	30	80	-	5	2
	168E	40	12	200	100	-	7	2
	166E	12	8	40	40	-	5	2
	164E	15	15	700	80	-	12	3
	162E	15	80	-20	4	-	4	-1
	160E	40	25	20	3	-	8	10
	158E	50	30	100	40	-	8	40
	156E	50	30	25	30	-	10	12
	154E	50	40	-20	15	-	7	7
	152E	40	40	20	5	-	10	12
	150E	50	50	20	50	-	7	8
	148E	30	50	20	4	-	7	4
	146E	50	70	20	15	-	8	5
	144E	70	50	25	25	-	6	7
	142E	70	30	-20	20	-	6	5
166N	140E	60	30	-20	20	-	5	4

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
166N	138E	50	50	-20	30	-	5	4
	136E	60	60	-20	40	-	4	4
	134E	60	60	20	60	-	4	4
	132E	70	50	-20	80	-	5	5
	130E	100	70	80	60	-	12	30
	128E	40	50	70	100	-	5	4
	126E	600	20	50	80	250	10	5
	124E	10	6	100	8	15	3	-1
	122E	50	60	250	70	200	4	1
	120E	30	10	300	1000	2500	12	15
	118E	25	18	100	60	1000	10	6
	116E	25	12	50	80	600	5	5
	114E	60	40	70	50	500	10	5
	112E	40	25	25	15	30	4	2
	110E	15	30	25	10	20	4	10
	108E	15	20	20	7	15	3	2
	106E	15	20	100	40	50	3	2
	104E	80	100	250	30	50	7	2
	102E	250	80	6000	100	600	3	6
	100E	40	40	100	15	15	5	1
	98E	50	40	40	25	20	5	2
	96E	60	50	50	18	25	6	15
	94E	40	40	70	40	30	5	1
	92E	15	50	50	30	25	4	12
166N	90E	25	30	40	30	25	4	20
170N	184E	60	30	20	50	-	7	2
	182E	80	25	20	100	-	8	1
	180E	20	8	70	80	-	5	-1
	178E	800	80	700	150	-	7	-1
	176E	60	25	40	80	-	10	20
	174E	50	8	30	25	-	5	1
	172E	40	15	50	15	-	6	3
	170E	15	15	-20	2	-	5	2
	168E	40	18	-20	2	-	6	2
	166E	50	40	-20	25	-	6	15
	164E	40	50	25	30	-	6	20
	162E	40	50	25	25	-	5	20
	160E	50	40	25	40	-	5	25
	158E	25	50	20	60	-	5	3
	156E	40	50	20	80	-	5	10
	154E	50	40	25	100	-	7	8
	152E	60	40	30	100	-	7	15
	150E	50	50	25	80	-	7	15
170N	148E	60	60	30	100	-	7	15

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
170N	146E	50	30	25	150	-	6	20
	144E	70	50	80	100	-	7	15
	142E	20	15	100	60	-	4	2
	140E	250	60	60	250	-	10	40
	138E	150	50	50	150	-	10	15
	136E to 124E not sampled.							
	122E	25	20	200	200	700	12	15
	120E	5	5	25	5	10	4	-1
	118E	60	50	300	100	600	15	20
	116E	40	20	25	50	200	8	2
	114E	-	-	-	-	-	-	-
	112E	-	-	-	-	-	-	-
	110E	40	15	30	25	20	3	1
	108E	60	40	50	40	20	4	20
	106E	200	200	1000	30	60	4	25
	104E	150	50	250	80	100	3	5
	102E	1000	12	300	50	50	4	-1
	100E	15	30	100	20	40	3	1
	98E	80	70	60	60	50	4	4
	96E	20	50	100	30	40	4	1
	94E	50	60	100	30	50	4	2
	92E	20	15	25	10	15	4	3
	90E	40	30	30	20	15	5	4
	88E	25	30	30	40	50	4	1
	86E	20	25	50	15	20	4	-1
	84E	25	15	25	15	15	3	2
	82E	40	50	150	40	60	3	1
	80E	20	20	25	10	15	3	3
	78E	25	20	25	12	15	3	1
	76E	25	20	20	12	20	4	20
	74E	10	15	25	8	10	2	5
	72E	15	25	30	15	15	3	4
	70E	40	40	25	10	30	3	15
	68E	20	50	80	20	30	4	3
	66E	25	40	100	25	40	4	1
	64E	100	70	50	25	80	6	15
	62E	100	20	100	250	250	2	-1
170N	60E	100	60	200	12	30	8	5
174N	188E	150	12	200	60	-	5	1
	186E	25	5	-20	30	-	3	-1
	184E	40	8	20	7	-	3	-1
	182E	50	60	25	200	-	4	8
	180E	50	60	25	150	-	5	7
	178E	25	4	150	150	-	3	-1
174N	176E	60	12	400	100	-	4	4

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
174N	174E	80	20	150	80	-	3	5
	172E	70	20	700	200	-	3	5
	170E	10	8	-20	4	-	2	-1
	168E	60	80	40	15	-	3	40
	166E	60	25	20	80	-	8	10
	164E	50	20	25	80	-	7	2
	162E	70	80	40	100	-	10	25
	160E	50	30	50	70	-	7	3
	158E	40	20	25	30	-	5	-1
	156E	20	15	30	20	-	5	1
	154E	700	20	20	50	-	5	-1
	152E	600	50	30	100	-	10	10
	150E	50	15	30	80	-	6	5
	148E	100	60	25	150	-	10	15
	146E	60	18	25	150	-	8	3
	144E	80	30	40	100	-	7	5
	142E	50	15	20	50	-	8	2
	140E	100	20	30	70	-	8	2
	138E to 122E not sampled.							
	120E	15	8	25	4	150	6	2
	118E	15	15	25	8	15	4	-1
	116E	20	12	25	50	200	5	4
	114E	70	12	25	50	300	5	1
	112E	60	18	25	40	250	6	2
	110E	600	10	1200	250	2500	4	3
	108E	40	30	100	25	15	3	1
	107E	50	20	100	30	-	100	-1
	104E	60	40	100	12	12	4	8
	102E	150	70	2000	200	500	3	3
	100E	50	20	80	15	15	3	1
	98E	60	40	100	20	20	4	2
	96E	40	18	60	20	20	4	2
	94E	15	25	25	20	30	3	3
174N	92E	25	15	40	20	20	3	7
178N	192E	5	7	-20	10	-	1	-1
	190E	30	30	80	10	-	3	5
	188E	40	25	25	30	-	3	4
	186E	60	40	25	20	-	3	12
	184E	70	70	25	20	-	3	15
	182E	30	18	80	250	-	3	8
	180E	60	60	25	30	-	3	10
	178E	50	50	20	40	-	4	12
	176E	50	30	20	50	-	5	12
	174E	50	40	25	40	-	4	12
178N	172E	50	40	20	40	-	4	7

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
178N	170E	50	40	-20	20	-	5	12
	168E to 128E not sampled.							
	126E	8	5	-20	7	20	-	1
	124E	8	4	-20	7	25	-	-1
	122E	6	5	-20	5	8	-	1
	120E	15	12	-20	6	15	-	-1
	118E	-	-	-	-	-	-	-
	116E	40	20	30	25	20	3	1
	114E	50	20	30	15	50	4	3
	112E	500	50	600	50	800	7	15
	110E	1000	5	500	300	5000	6	3
	108E	800	30	3000	400	2000	10	2
	106E	100	50	100	15	50	5	30
	104E	50	50	60	30	40	4	2
	102E	800	50	300	20	200	3	80
	100E	50	70	150	20	30	2	2
	98E	25	25	25	25	30	4	2
	96E	30	30	50	30	40	4	1
	94E	80	50	250	100	80	4	4
178N	92E	25	15	25	40	50	3	-1
179N	124E	5	4	-20	25	25	-	1
179N'	122E	5	4	40	50	50	-	1
182N	216E	6	6	-20	2	-	1	-1
	214E	12	10	70	30	-	3	1
	212E	20	10	-20	5	-	2	-1
	210E	50	25	80	40	-	4	6
	208E	60	200	100	30	-	5	10
	206E	60	70	25	10	-	8	30
	204E	40	40	25	20	-	5	8
	202E to 132E not drilled.							
	130E	15	10	-20	12	15	-	-1
	128E	10	5	-20	7	10	-	-1
	126E	15	10	25	8	25	-	-1
	124E	10	5	25	5	8	-	-1
	122E	15	15	-20	6	8	-	-1
	120E	10	10	-20	5	8	-	-1
	118E	10	10	20	6	10	3	1
	116E	40	15	20	15	30	5	1
	114E	50	18	30	15	50	3	2
	112E	700	25	250	150	2000	6	8
	111E	300	5	70	20	250	-	1
	110E	700	25	200	400	2000	6	2
	108E	600	50	500	10	100	10	7
	107E	8	25	250	5	8	-	1
182N	106E	30	25	500	15	25	5	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
182N	104E	50	60	200	15	25	4	1
	102E	400	8	3000	30	250	4	1
	100E	6	30	50	3	10	3	-1
	98E	8	15	20	10	15	3	4
	96E	40	30	40	30	50	3	-1
	94E	70	60	200	40	50	3	2
	92E	60	40	200	30	25	4	3
184N	100E	15	10	60	4	5	-	-1
186N	220E	10	10	-20	8	-	1	1
	218E	5	3	30	25	-	2	2
	216E	7	5	40	80	-	2	3
	214E	200	30	60	60	-	5	30
	212E	250	30	250	40	-	10	6
	210E	60	60	60	30	-	10	10
	208E	5	20	100	25	-	4	-1
	206E	20	30	-20	20	-	3	3
	204E	60	15	25	30	-	4	1
	202E	40	18	-20	12	-	4	4
	200E	30	8	100	15	-	2	-1
	198E	20	6	100	40	-	4	3
	196E	40	15	80	15	-	6	4
	194E to 132E not drilled.							
	130E	10	8	-20	7	15	-	-1
	128E	15	15	25	7	15	-	-1
	126E	12	5	20	7	4	-	1
	124E	25	12	-20	12	15	-	1
	122E	15	12	-20	12	10	-	1
	120E	40	8	20	7	10	-	1
	118E	-	-	-	-	-	-	-
	116E	40	25	25	30	15	5	1
	114E	60	30	25	40	50	4	2
	112E	600	60	250	100	800	10	30
	110E	500	60	600	300	200	6	-1
	108E	500	10	300	60	800	8	1
	106E	4	15	80	8	10	3	1
	104E	40	25	20	7	10	2	2
	102E	150	20	200	50	200	3	-1
	101E	40	4	100	70	8	-	-1
	100E	40	80	250	7	15	3	1
	99E	30	30	100	4	7	-	2
	98E	60	80	150	30	20	4	15
	96E	15	15	40	4	10	4	2
	94E	30	12	50	25	50	3	-1
186N	92E	50	60	70	80	50	5	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
190N	224E	10	12	-20	15	-	2	1
	222E	10	10	25	20	-	2	3
	220E	12	12	60	25	-	1	6
	218E	20	18	30	25	-	2	4
	216E	60	18	20	10	-	2	40
	214E	50	18	25	15	-	4	3
	212E	6	5	100	25	-	4	4
	210E	12	10	50	20	-	4	1
	208E	40	15	20	10	-	3	4
	206E	40	40	25	25	-	3	7
	204E	80	700	-20	250	-	1	25
	202E	80	25	300	15	-	1	5
	200E	50	30	25	12	-	3	5
	198E	70	40	80	50	-	3	12
	196E to 136E not drilled.							
	134E	30	10	20	250	70	-	2
	132E	25	8	25	15	50	-	-1
	130E	4	-1	-20	5	8	-	-1
	128E	15	12	20	25	15	-	1
	126E	8	12	-20	2	8	-	3
	124E	8	6	25	10	50	-	-1
	122E	20	7	25	60	60	-	1
	120E	20	8	20	25	50	-	-1
	118E	15	15	20	7	10	-	1
	116E	-	-	-	-	-	-	-
	114E	1200	10	150	25	500	4	-1
	112E	80	40	150	25	300	5	15
	110E	400	100	400	60	700	6	25
	108E	250	15	400	25	200	4	-1
	107E	15	20	250	7	20	-	1
	106E	25	20	100	30	20	4	3
	104E	40	70	150	25	50	5	2
	102E	250	15	200	30	150	4	-1
	100E	10	12	25	15	25	3	-1
	98E	20	500	200	40	15	6	4
	96E	70	50	30	50	50	6	8
	94E	25	40	20	20	25	3	2
	92E	25	15	25	8	25	4	-1
	90E	25	15	20	20	25	5	1
	88E	30	20	25	7	25	5	2
	86E	40	30	20	12	30	4	6
	84E	25	30	50	40	50	4	2
	82E	50	30	80	30	40	4	-1
	80E	20	40	50	30	40	3	-1
	78E	300	60	200	80	150	5	5
	76E	12	12	25	3	15	5	-1
190N	74E	10	15	25	12	15	3	1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
190N	72E	10	12	30	10	15	4	1
	70E	25	15	30	12	15	4	2
	68E	60	25	40	15	40	5	-1
	66E	50	30	50	18	40	3	-1
	64E	20	25	150	10	15	4	-1
	62E	60	40	20	15	50	5	1
190N	60E	50	70	700	100	300	3	-1
194N	226E	5	4	500	70	-	-1	-1
	224E	7	2	25	40	-	1	2
	222E	10	7	20	25	-	-1	-1
	220E	40	20	20	50	-	1	4
	218E	150	30	20	15	-	2	15
	216E	20	15	50	18	-	2	1
	214E	50	18	60	40	-	4	10
	212E	15	15	-20	10	-	3	2
	210E	20	10	-20	7	-	2	2
	208E	40	40	25	30	-	6	4
	206E	15	15	20	12	-	3	2
	204E	8	3	150	100	-	4	-1
	202E	200	25	150	40	-	1	5
	200E	40	40	30	15	-	1	8
	198E	50	30	25	20	-	4	7
	196E	50	30	30	40	-	3	2
	194E to 130E not drilled.							
	128E	15	8	20	5	10	-	3
	126E	10	8	20	2	5	-	2
	124E	7	5	60	10	50	-	2
	122E	25	18	500	300	800	4	10
	120E	40	15	-20	40	100	2	3
	118E	80	12	40	20	150	7	2
	116E	40	20	25	20	40	5	5
	114E	600	25	150	40	200	8	6
	112E	40	15	25	10	50	3	2
	110E	100	8	200	250	1500	4	-1
	108E	80	60	300	40	100	5	3
	106E	70	60	250	20	60	5	3
	104E	80	80	150	30	100	7	40
	102E	30	50	600	30	50	3	1
	100E	20	60	25	15	25	5	2
	98E	25	150	300	8	15	4	1
194N	96E	50	80	80	10	20	5	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
198N	228E	8	6	-20	20	-	2	2
	226E	20	12	-20	20	-	4	2
	224E	20	10	20	12	-	3	1
	222E	50	50	60	15	-	3	30
	221E	20	12	-20	20	20	-	10
	220E	150	50	2000	40	-	4	30
	219E	10	5	20	5	10	-	-1
	218E	40	15	60	30	-	4	6
	216E	20	15	-20	20	-	1	7
	214E	30	15	25	40	-	5	20
	212E	50	3	-20	15	-	2	-1
	210E	30	50	600	15	-	3	-1
	208E	600	20	2000	400	-	2	5
	207E	10	3	-20	5	12	-	-1
	206E	30	6	70	15	-	3	-1
	205.5E	20	5	20	40	25	-	-1
	205E	50	30	150	150	250	-	-1
	204E	1200	10	800	100	-	1	3
	202E	200	40	50	150	-	3	15
	200E	60	25	20	15	-	2	6
	198E to 132E not drilled.							
	130E	40	40	-20	7	15	2	6
	128E	40	50	-20	5	10	2	4
	126E	40	20	20	5	8	3	7
	124E	50	25	600	60	400	2	20
	122E	50	20	800	80	1000	8	12
	120E	60	20	200	200	700	3	15
	118E	70	10	100	40	300	6	2
	116E	80	20	200	20	300	2	4
	116E	60	40	60	60	-	5	10
	114E	25	25	25	18	-	4	1
	112E	-	-	-	-	-	-	-
	110E	600	18	250	150	2000	5	5
	108E	250	20	500	100	500	4	15
	106E	30	25	25	40	25	3	2
	104E	50	25	80	40	60	4	2
	102E	25	40	100	40	40	4	1
	100E	500	30	5000	80	500	3	8
	98E	50	40	100	30	300	4	3
198N	96E	10	50	50	10	15	3	4

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
202N	232E	10	18	20	15	-	-1	-1
	230E	15	18	20	10	-	3	-1
	228E	8	8	-20	10	-	2	-1
	226E	10	20	-20	8	-	3	-1
	224E	15	40	20	20	-	6	40
	222E to 212E not sampled. (See 203.5N).							
	210E	20	15	-20	25	-	4	2
	208E	15	15	-20	12	-	3	1
	206E	40	12	-20	20	-	4	1
	204E	60	50	25	25	-	5	4
	202E	70	30	30	20	-	6	5
	200E to 136E not sampled.							
	134E	15	40	20	3	10	4	4
	132E	40	40	20	3	12	4	6
	130E	50	30	20	7	15	4	8
	128E	40	30	20	7	15	4	6
	126E	12	20	20	2	10	4	3
	124E	50	25	80	50	250	15	7
	122E	40	10	200	40	500	300	3
	120E	100	8	250	50	500	6	4
	118E	200	15	2000	150	2500	5	1
	116E	50	15	50	20	80	4	1
	114E	8	25	-20	3	15	3	-1
	112E	40	30	25	25	40	5	4
	110E	40	40	30	30	30	5	3
	108E	8	15	100	15	15	3	1
	106E	60	50	100	40	50	7	1
	104E	40	60	100	25	25	3	2
	102E	60	80	150	40	30	5	5
	100E	30	40	200	50	60	3	1
	98E	40	50	100	25	40	4	2
202N	96E	70	250	400	30	-	5	6
203.5N	222E	50	20	100	25	-	5	2
	220E	40	5	40	8	-	2	-1
	218E	40	25	30	40	-	5	4
	216E	100	6	25	25	-	5	-1
	214E	30	25	25	12	-	5	4
203.5N	212E	50	50	40	15	-	7	10
206N	236E	15	10	-20	7	-	2	-1
	234E	10	8	-20	10	-	1	-1
	232E	30	25	-20	10	-	3	-1
	230E	30	15	25	15	-	1	-1
	228E	30	18	-20	20	-	4	-1
206N	226E	20	10	-20	8	-	2	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
206N	224E	60	15	-20	12	-	3	2
	222E	200	30	150	40	-	6	6
	220E	100	6	40	30	-	5	-1
	218E	10	5	30	20	-	5	2
	216E	40	8	30	20	-	5	1
	214E	40	15	30	15	-	5	2
	212E	30	15	25	25	-	5	4
	210E	25	15	-20	12	-	5	3
	208E	25	18	-20	12	-	4	2
	206E	60	25	30	30	-	4	20
	204E to 132E not drilled.							
	130E	200	60	400	30	150	8	12
	128E	20	50	-20	5	12	4	7
	126E	70	50	60	60	200	8	7
	124E	150	60	100	150	500	10	10
	122E	700	25	150	200	1000	20	20
	120E	500	18	250	150	2000	10	12
	118E	250	18	250	250	2500	4	12
	116E	60	25	80	60	500	2	-1
	114E	40	25	50	20	100	3	3
	112E	12	20	30	12	12	3	1
	110E	-	-	-	-	-	-	-
	108E	30	70	120	25	-	5	5
	106E	20	50	40	30	-	4	-1
	104E	50	100	30	40	-	4	4
	102E	30	100	1200	25	-	4	1
	100E	30	250	200	40	-	3	3
	98E	30	60	100	50	-	3	2
206N	96E	40	40	50	40	-	5	-1
210N	238E	25	30	-20	12	-	2	-1
	236E	10	8	-20	20	-	1	-1
	234E	7	5	200	7	-	1	-1
	232E	25	20	25	25	-	2	2
	230E	70	30	200	20	-	3	20
	228E	25	10	-20	25	-	2	-1
	226E	150	40	150	30	-	5	3
	224E	200	50	30	60	-	7	50
	222E	400	20	25	70	-	10	5
	220E	30	30	200	80	-	2	4
	218E	30	10	20	15	-	3	7
	216E	15	8	-20	8	-	1	6
	214E	10	30	25	12	-	3	15
	212E	80	50	50	15	-	4	30
210N	210E	40	20	400	50	-	4	6

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
210N	208E	40	20	200	60	-	4	7
	206E	40	20	20	15	-	3	2
	204E	50	25	20	20	-	3	3
	202E	25	20	-20	15	-	3	1
	200E	60	50	25	50	-	4	4
	198E to 112E not drilled.							
	110E	25	20	20	8	15	3	1
	108E	40	25	25	15	40	3	4
	106E	20	18	-20	5	15	2	3
	104E	25	18	-20	5	20	2	1
	102E	50	25	20	20	30	3	5
	100E	30	20	20	12	30	2	2
	98E	50	40	150	25	30	3	2
210N	96E	25	20	60	15	25	3	1
214N	242E	40	40	100	15	-	2	-1
	240E	15	20	60	10	-	3	-1
	238E	3	3	-20	8	-	2	-1
	236E	25	8	25	8	-	2	-1
	234E	300	60	20	25	-	5	50
	232E	40	50	150	25	-	4	4
	230E	50	30	25	40	-	5	3
	228E	40	20	20	15	-	5	10
	226E	30	15	200	70	-	7	8
	224E	30	20	60	40	-	5	7
	222E	5	5	25	25	-	3	1
	220E	30	25	-20	4	-	4	8
	218E	25	8	25	40	-	3	7
	216E	25	15	25	12	-	4	6
	214E	8	15	-20	4	-	3	3
	212E	20	25	20	5	-	4	4
	210E	25	20	-20	18	-	5	4
	208E	25	18	20	8	-	6	4
	206E	40	20	-20	12	-	6	20
	204E	50	40	-20	30	-	5	3
	202E	20	12	-20	5	-	3	2
	200E	40	50	-20	40	-	4	2
	198E	30	15	20	15	-	4	1
	196E	40	25	25	25	-	4	3
	194E to 114E not drilled.							
	112E	80	60	150	8	20	5	50
	110E	60	40	50	15	40	4	3
	108E	40	25	20	12	20	4	1
	106E	30	18	20	8	15	5	1
214N	104E	25	18	20	8	15	5	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
214N	102E	500	80	6000	80	500	5	8
	100E	60	40	100	20	25	7	4
214N	98E	20	15	20	18	15	4	1
218N	244E	10	18	50	7	-	2	-1
	242E	25	25	80	12	-	3	-1
	240E	50	70	25	40	-	4	4
	238E	25	25	80	12	-	3	20
	236E	80	50	400	40	-	5	40
	234E	30	80	500	40	-	2	2
	232E	60	80	500	40	-	5	8
	230E	10	25	-20	2	-	3	3
	228E	15	30	-20	7	-	4	4
	226E	400	50	500	20	-	8	5
	224E	50	30	30	18	-	5	6
	222E	80	40	100	25	-	3	20
	220E	8	10	-20	2	-	2	4
	218E	7	8	-20	3	-	2	-1
	216E	25	40	20	4	-	4	4
	214E	25	40	25	2	-	3	3
	212E	25	60	25	1	-	3	4
	210E	50	12	60	15	-	3	2
	208E	25	18	-20	3	-	3	2
	206E	30	20	-20	15	-	3	3
	204E	70	40	100	25	-	6	4
	202E	50	25	80	40	-	5	6
	200E	60	50	40	60	-	5	15
	198E	30	30	-20	50	-	4	4
	196E	30	25	25	3	-	5	2
	194E	50	40	25	30	-	5	10
	192E	7	8	-20	5	-	2	-1
	190E	10	6	20	20	-	2	-1
	188E	10	60	20	7	-	2	-1
	186E to 174E not drilled.							
	172E	500	15	150	40	-	4	-1
	170E	200	60	150	50	-	5	15
	168E	50	30	-20	15	-	3	2
	166E	25	50	20	20	-	4	-1
	164E	70	60	20	20	-	5	5
	162E	60	40	20	25	-	4	2
	160E	80	70	200	25	-	5	4
	158E	40	50	30	15	-	2	1
	156E	25	60	20	15	-	5	5
	154E	30	60	20	15	-	5	3
	152E	10	50	20	5	-	3	10
	150E	7	40	20	5	-	4	2
218N	148E	60	30	-20	12	-	4	8

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
218N	146E	30	25	20	25	-	3	2
	145E	15	15	-20	6	10	-	4
	144E	50	100	25	12	-	4	8
	143E	8	10	-20	5	8	-	2
	142E	80	40	300	30	-	6	4
	140E	250	30	400	50	-	5	15
	138E to 114E not drilled.							
	112E	30	18	25	10	20	5	2
	110E	30	18	25	30	25	4	2
	108E	30	15	20	10	20	4	5
	106E	40	25	25	30	40	4	3
	104E	30	15	-20	15	15	4	1
	102E	30	20	25	25	15	4	1
	100E	40	30	100	25	50	5	1
218N	98E	50	50	100	50	50	5	15
222N	240E	70	40	-20	40	20	-	10
	238E	40	50	50	40	50	-	4
	236E	30	40	-20	10	30	-	7
	234E	25	15	-20	7	30	--	1
	232E	20	60	-20	2	15	-	2
	230E	15	50	-20	1	40	-	3
	228E	200	30	60	40	150	-	5
	226E	25	6	25	40	20	-	1
	224E	120	100	100	50	80	-	2
	222E	30	10	30	5	60	-	3
	220E	25	15	20	15	150	-	6
	218E	150	15	50	10	80	-	3
	216E	15	15	-20	2	20	-	5
	214E	18	60	-20	2	40	-	5
	212E	20	15	-20	12	50	-	5
	210E	15	15	-20	50	60	-	5
	208E	15	8	-20	5	50	-	2
	206E	18	50	20	150	100	-	5
	204E	20	30	20	150	60	--	7
	202E	18	20	-20	30	60	-	3
	200E	60	60	20	60	100	-	7
	198E	50	30	30	20	60	-	15
	196E	50	15	-20	25	80	-	3
	194E	25	15	-20	7	60	-	1
	192E	20	25	-20	50	30	-	1
	190E	15	12	-20	10	25	-	-1
	188E to 172E not drilled.							
	170E	8	50	-20	3	6	-	-1
222N	168E	25	25	-20	2	8	-	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
222N	166E	40	30	20	25	20	-	3
	164E	50	50	40	25	40	-	3
	162E	30	40	20	7	30	-	4
	160E	25	20	-20	5	20	-	2
	158E	25	40	-20	25	20	-	3
	156E	30	70	-20	20	20	-	3
	154E	30	60	-20	10	20	-	2
	152E	20	60	-20	20	15	-	-1
	150E	70	50	25	50	20	-	3
	148E	8	10	-20	4	12	-	-1
	146E	50	40	-20	30	30	-	6
	144E	40	40	-20	40	30	-	5
	142E	40	30	20	30	30	-	5
	140E	30	15	-20	5	20	-	3
	138E	15	15	50	6	20	-	-1
	136E	30	15	25	5	20	-	-1
	134E to 110E not drilled.							
	108E	12	15	20	4	25	-	-1
	106E	12	20	20	8	25	-	1
	104E	10	25	40	7	20	-	2
	102E	15	10	40	8	20	-	-1
	100E	40	60	80	20	30	-	6
	98E	40	40	50	8	40	-	2
222N	96E	40	80	80	10	40	-	2
226N	236E	8	5	-20	3	7	-	-1
	234E	25	15	-20	10	50	-	3
	232E	12	12	-20	-1	12	-	3
	230E	15	15	-20	2	12	-	2
	228E	10	15	-20	1	12	-	5
	226E	12	50	-20	2	25	-	4
	224E	15	12	-20	4	25	-	7
	222E	15	12	-20	15	50	-	2
	220E	8	5	20	8	12	-	-1
	218E	20	10	-20	15	60	-	3
	216E	40	30	-20	50	80	-	20
	214E	25	2 0	-20	30	60	-	5
	212E	15	15	-20	20	50	-	4
	210E	15	12	-20	15	60	-	2
	208E	18	15	20	40	60	-	25
	206E	40	30	-20	80	80	-	8
	204E	40	20	20	10	50	-	10
	202E	50	30	-20	60	70	-	30
	200E	25	15	20	10	25	-	8
	198E	30	15	20	15	60	-	6
	196E	50	20	40	25	50	-	5
	194E	25	8	25	15	30	-	-1
226N	192E to 174E not drilled.							

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
226N	172E	20	30	25	15	15	-	2
	170E	25	30	-20	8	10	-	2
	168E	15	25	-20	7	6	-	-1
	166E	30	25	25	5	8	-	-1
	164E	30	25	30	12	8	-	2
	162E	15	20	-20	4	8	-	1
	160E	12	8	-20	5	7	-	-1
	158E	15	30	-20	15	8	-	2
	156E	20	50	-20	30	15	-	3
	154E	8	30	30	5	5	-	-1
	152E	15	25	-20	6	12	-	-1
	150E	15	25	-20	3	10	-	-1
	148E	20	50	20	15	20	-	-1
	146E	30	60	-20	15	30	-	2
	144E	25	12	20	-1	12	-	2
	142E	40	20	20	40	30	-	3
	140E	15	10	20	3	8	-	1
	138E	40	10	40	5	10	-	-1
	136E	15	10	20	5	10	-	1
	134E to 130E not drilled.							
	128E	15	20	20	10	12	3	2
	126E	40	30	25	12	20	3	20
	124E	15	40	50	15	20	3	-1
	122E	40	50	70	10	15	2	6
	120E to 112E not drilled.							
	110E	40	60	70	12	15	3	6
	108E	50	70	150	20	40	3	10
	106E	15	80	100	10	12	3	3
	104E	20	25	100	8	15	3	2
	102E	60	30	100	20	25	3	5
	100E	20	50	150	12	15	3	3
	98E	50	30	150	12	25	4	3
226N	96E	60	80	250	15	30	2	2
230N	234E	30	25	20	4	50	-	5
	232E	70	70	30	15	100	-	3
	230E	10	20	-20	1	15	-	4
	228E	12	20	-20	3	20	-	3
	226E	15	20	30	15	60	-	10
	224E	18	15	-20	15	60	-	7
	222E	15	8	-20	5	50	-	4
	220E	12	10	-20	10	50	-	7
	218E	10	8	-20	5	60	-	3
	216E	15	25	-20	70	100	-	8
	214E	15	12	-20	20	30	-	4
	212E	60	25	-20	50	200	-	10
230N	210E	50	8	-20	30	60	-	6

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
230N	208E	40	8	-20	20	60	-	7
	206E	50	25	25	20	70	-	15
	204E	40	25	25	6	40	-	15
	202E	30	15	-20	20	50	-	7
	200E	40	18	20	30	60	-	12
	198E	70	25	50	40	100	-	10
	196E to 178E not drilled.							
	176E	30	15	20	20	20	-	2
	174E	-	-	-	-	-	-	-
	172E	8	10	-20	5	10	-	-1
	170E	10	12	-20	4	15	-	-1
	168E	50	80	25	80	80	-	3
	166E	15	25	-20	25	20	-	1
	164E	15	100	-20	25	20	-	2
	162E	15	12	-20	5	20	-	2
	160E	30	30	-20	15	40	-	3
	158E	10	50	-20	3	10	-	2
	156E	20	15	-20	8	30	-	3
	154E	30	70	-20	50	50	-	3
	152E	25	30	-20	12	30	-	-1
	150E	30	40	20	30	40	-	2
	148E	30	30	20	25	50	-	2
	146E	12	10	-20	5	15	-	-1
	144E	12	8	-20	4	8	-	-1
	142E to 138E not drilled.							
	136E	20	30	20	15	20	3	2
	134E	15	25	-20	10	18	3	1
	132E	20	30	20	12	20	3	1
	130E	25	30	-20	12	25	3	1
	128E	25	30	20	15	25	3	4
	126E	40	40	20	15	30	3	2
	124E	25	40	25	15	25	3	3
	122E	70	80	80	100	50	4	10
	120E	50	70	25	12	40	15	10
	118E	40	80	150	15	50	3	15
	116E	60	150	200	15	50	5	8
	114E	60	150	100	15	40	7	15
	112E	20	50	50	12	20	3	2
	110E	40	60	50	30	30	4	4
	108E	30	60	70	30	30	4	4
	106E	50	40	25	30	30	4	4
	104E	40	25	25	20	25	4	5
	102E	30	25	25	20	25	3	3
	100E	60	40	30	15	40	3	5
	98E	80	25	40	50	70	2	1
230N	96E	40	15	25	15	15	3	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
234N	232E	30	40	20	5	50	-	8
	230E	40	50	20	7	50	-	7
	228E	40	50	40	8	60	-	15
	226E	50	80	50	40	100	-	15
	224E	70	150	250	8	150	-	12
	222E	40	60	150	30	150	-	40
	220E	60	50	200	30	250	-	25
	218E	40	25	20	20	150	-	7
	216E	60	30	70	20	100	-	20
	214E	60	15	40	30	100	-	7
	212E	150	60	60	50	150	-	25
	210E	80	25	50	40	150	-	12
	208E	60	40	30	20	80	-	15
	206E	70	70	50	80	70	-	15
	204E	40	10	-20	2	20	-	7
	202E	80	60	20	80	150	-	12
	200E	150	100	120	150	200	-	25
	198E to 182E not drilled.							
	180E	40	18	25	40	25	-	15
	178E	10	8	20	5	7	-	-1
	176E	40	8	-20	7	15	-	2
	174E	40	15	20	25	25	-	5
	172E	25	8	-20	20	10	-	4
	170E	20	10	-20	8	15	-	-1
	168E	20	25	20	10	20	-	-1
	166E	18	25	-20	10	20	-	-1
	164E	15	8	-20	5	8	-	-1
	162E	40	60	20	15	40	-	3
	160E	50	40	20	50	40	-	5
	158E	25	50	20	50	50	-	5
	156E	40	60	40	40	50	-	4
	154E	60	40	20	50	50	-	2
	152E	20	20	-20	8	25	-	-1
	150E	20	30	-20	10	25	-	2
	148E	30	60	-20	30	50	-	3
	146E	-	-	-	-	-	-	-
	144E	15	12	20	10	12	-	4
	142E	-	-	-	-	-	-	-
	140E	-	-	-	-	-	-	-
	138E	15	30	20	18	20	3	5
	136E	30	25	30	30	30	2	20
	134E	15	50	25	8	15	3	3
	132E	10	15	25	4	5	3	2
	130E	250	20	100	20	70	4	-1
	128E	300	20	25	30	70	3	3
	126E	60	40	80	15	30	6	10
234N	124E	50	40	80	10	30	2	4

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
234N	122E	40	50	30	12	30	3	7
	120E	60	30	200	25	30	2	3
	118E	50	60	100	7	25	2	3
	116E	60	200	150	25	50	4	20
	114E	250	50	200	30	150	2	-1
	112E	10	50	100	15	25	3	2
	110E	40	400	300	5	7	3	2
	108E	40	150	70	50	30	-	5
	106E	25	20	20	6	25	-	4
	104E	15	18	20	5	30	-	3
	102E	25	20	30	5	25	-	3
	100E	25	15	20	6	25	-	3
	98E	20	12	20	4	25	-	3
234N	96E	25	25	25	10	30	-	3
238N	184E	30	5	20	4	20	-	-1
	182E	25	20	25	5	12	-	3
	180E	40	25	30	12	20	-	5
	178E	30	15	20	10	20	-	2
	176E	30	15	25	15	15	-	3
	174E	8	8	20	8	6	-	-1
	172E	25	12	25	5	20	-	-1
	170E	15	30	50	5	8	-	-1
	168E	20	30	25	50	15	-	3
	166E	12	20	-20	2	8	-	-1
	164E	10	20	-20	15	7	-	-1
	162E	12	30	60	3	7	-	2
	160E	12	25	-20	7	6	-	-1
	158E	8	8	-20	5	8	-	-1
	156E	15	10	-20	10	10	-	-1
	154E	20	30	20	10	15	-	4
	152E	7	12	-20	4	6	-	-1
	150E	7	12	-20	4	6	-	-1
	148E	-	-	-	-	-	-	-
	146E	12	15	-20	7	10	-	4
	144E	10	20	20	10	12	-	3
	142E	8	5	-20	3	7	-	4
	140E	-	-	-	-	-	-	-
	138E	25	20	-20	12	15	4	4
	136E	50	20	20	25	40	4	8
	134E	30	12	-20	7	15	3	12
	132E	40	15	-20	20	25	4	5
	130E	40	20	-20	12	25	4	5
	128E	70	30	25	15	30	3	50
	126E	80	40	40	18	60	4	40
	124E	80	60	50	15	80	5	50
238N	122E	80	60	40	20	60	5	50

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM	
238N	120E	20	15	20	8	15	3	3	
	118E	40	70	70	15	20	5	4	
	116E	40	80	25	50	25	5	25	
	114E	80	100	80	30	40	5	40	
	112E	70	100	100	60	50	4	20	
	110E	60	70	40	30	50	5	20	
	108E	40	60	60	15	40	4	20	
	106E	50	30	30	15	40	3	7	
	104E	40	30	40	10	30	6	8	
	102E	30	40	80	10	25	5	4	
	100E	250	60	100	12	40	10	8	
	98E	60	50	50	40	50	5	7	
238N	96E	40	50	25	10	20	4	10	
242N	186E	20	8	50	5	15	-	-1	
	184E	25	8	-20	5	20	-	3	
	182E	50	12	60	100	60	-	1	
	180E	20	8	-20	5	8	-	1	
	178E	8	5	-20	12	8	-	1	
	176E	10	15	-20	6	8	-	-1	
	174E	20	8	20	7	12	-	3	
	172E	25	20	50	12	8	-	3	
	170E	15	20	25	5	7	-	2	
	168E	30	20	25	7	15	-	3	
	166E	15	15	-20	1	6	-	4	
	164E	25	15	-20	2	8	-	4	
	162E	30	25	40	12	10	-	-1	
	160E	7	4	20	3	5	-	-1	
	158E	25	3	25	10	5	-	-1	
	156E	15	8	-20	5	8	-	-1	
	154E	7	8	-20	2	5	-	-1	
	152E	15	20	-20	15	15	-	5	
	150E	8	8	-20	5	5	-	1	
	147.5	12	12	-20	6	12	-	1	(in lieu of 148E)
	146E	8	10	-20	5	7	-	-1	
	144E	15	15	20	7	15	-	7	
	142E	-	-	-	-	-	-	-	
	140E	30	20	20	10	20	4	4	
	138E	40	15	-20	20	20	4	4	
	136E	25	10	-20	3	10	3	5	
	134E	50	30	20	15	25	4	8	
	132E	60	40	30	50	30	4	10	
	130E	40	40	30	8	20	5	30	
	128E	30	20	40	10	25	5	6	
	126E	40	20	30	20	25	3	1	
242N	124E	100	25	100	40	150	2	20	

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
242N	122E	50	200	100	25	50	3	20
	120E	50	50	-20	3	12	4	50
	118E	60	60	70	15	60	2	20
	116E	60	60	30	15	50	3	15
	114E	60	40	200	12	25	3	3
	112E	60	80	150	15	60	3	15
	110E	50	80	150	30	80	5	30
	108E	200	50	150	15	60	4	25
	106E	200	70	250	20	100	5	60
	104E	150	60	150	20	60	1	50
	102E	50	50	80	12	40	7	60
	100E	400	60	500	20	50	6	12
	98E	15	40	70	18	20	2	1
242N	96E	50	50	80	12	20	5	7
246N	188E	80	5	50	25	25	-	-1
	186E	50	8	20	-1	8	-	12
	184E	20	6	-20	2	8	-	2
	182E	25	8	20	15	12	-	-1
	180E	20	7	20	5	10	-	-1
	178E	25	8	20	5	10	-	3
	176E	12	6	-20	4	6	-	-1
	174E	15	7	-20	6	10	-	1
	172E	10	8	-20	5	8	-	-1
	170E	25	10	20	7	15	-	-1
	168E	30	30	80	6	8	-	-1
	166E	30	12	-20	3	8	-	-3
	164E	15	15	20	2	5	-	3
	162E	30	20	-20	2	4	-	3
	160E	15	10	-20	2	4	-	3
	158E	25	25	-20	2	10	-	3
	156E	20	6	-20	2	8	-	1
	154E	15	7	-20	5	8	-	-1
	152E	8	6	-20	4	7	-	-1
	150E	12	12	-20	6	8	-	1
	148E	12	8	-20	5	10	-	-1
	146E	12	15	-20	10	12	-	4
	144E	10	10	-20	2	5	-	-1
	142E	40	20	20	15	40	5	8
	140E	30	15	-20	15	25	3	2
	138E	100	150	500	60	150	3	2
	136E	150	50	200	150	150	3	15
	134E	200	50	80	8	50	4	80
	132E	250	30	200	30	80	4	70
	130E	80	20	30	2	25	3	20
246N	128E	150	30	100	10	40	4	60

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
246N	126E	60	30	-20	2	15	3	50
	124E	80	50	30	3	30	6	80
	122E	100	50	40	5	50	6	70
	120E	25	20	20	2	10	5	80
	118E	150	40	25	6	50	5	80
	116E	200	50	50	8	30	6	40
	114E	100	60	150	10	60	5	15
	112E	60	60	200	15	80	5	10
	110E	80	15	100	15	150	4	2
	108E	8	20	25	5	25	3	3
	106E	10	15	30	2	-	8	2
	104E	30	8	25	5	-	8	4
	102E	30	12	80	7	-	8	4
	100E	50	50	80	-1	-	8	8
246N	98E	15	15	25	7	-	20	5
250N	196E	25	7	40	2	12	-	5
	194E	40	10	100	60	80	-	3
	192E	30	3	40	30	30	-	-1
	190E	40	4	40	30	40	-	-1
	188E	40	3	40	30	20	-	-1
	186E	70	6	50	50	50	-	4
	184E	20	15	-20	-1	5	-	15
	182E	25	8	-20	2	10	-	15
	180E	15	15	200	2	20	-	3
	178E	15	8	50	1	12	-	2
	176E	8	7	30	2	6	-	-1
	174E	10	6	20	3	6	-	-1
	172E	5	6	-20	2	4	-	-1
	170E	12	4	-20	5	5	-	-1
	168E	25	7	20	15	15	-	-1
	166E	10	10	-20	1	5	-	1
	164E	15	15	-20	1	4	-	2
	162E	20	10	25	4	15	-	4
	160E	20	10	20	-1	4	-	5
	158E	20	15	20	1	6	-	3
	156E	12	18	40	1	6	-	-1
	154E	25	20	20	7	8	-	2
	152E	10	8	-20	6	10	-	-1
	150E	10	8	-20	7	10	-	-1
	148E	10	15	25	7	12	-	2
	146E	10	10	-20	5	10	-	2
	144E	5	15	-20	3	5	2	-1
	142E	60	20	25	50	40	1	5
	140E	25	12	-20	7	10	1	1
250N	138E	15	10	-20	5	15	1	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
250N	136E	40	30	30	20	40	-1	20
	134E	200	50	80	18	100	1	50
	132E	60	15	30	15	25	2	10
	130E	150	30	70	15	60	5	25
	128E	200	30	80	15	70	1	25
	126E	200	500	200	15	80	4	40
	124E	250	50	70	15	40	1	100
	122E	60	30	70	20	40	3	15
	120E	100	30	400	20	150	2	5
	118E	100	15	150	40	250	2	1
	116E	70	30	100	50	70	1	10
	114E	80	40	70	20	100	3	25
	112E	200	40	40	8	40	3	100
	110E	150	25	80	8	30	2	15
	108E	80	40	300	10	40	1	12
	106E	50	40	50	15	30	4	10
	104E	100	25	50	18	70	2	4
	102E	60	50	200	20	70	4	5
	100E	40	50	40	12	30	3	8
250N	98E	50	40	30	12	40	4	15
254N	192E	80	15	40	7	100	-	4
	190E	25	2	20	15	10	-	-1
	188E	30	4	20	20	25	-	-1
	186E	60	5	20	30	40	-	-1
	184E	70	12	25	40	30	-	5
	182E	30	12	-20	4	10	-	8
	180E	40	25	20	3	8	-	20
	178E	30	25	20	2	8	-	5
	176E	10	20	80	4	12	-	1
	174E	10	5	-20	2	7	-	-1
	172E	10	10	-20	2	8	-	1
	170E	12	12	20	3	10	-	3
	168E	12	7	-20	2	5	-	1
	166E	15	15	25	2	5	-	5
	164E	30	7	-20	2	10	-	-1
	162E	20	8	-20	2	5	-	2
	160E	20	8	-20	8	6	-	2
	158E	20	25	-20	2	5	-	2
	156E	50	8	50	4	20	-	2
	154E	30	7	20	4	15	-	-1
	152E	30	7	-20	4	12	-	-1
	150E to 144E not drilled.							
	142E	25	18	-20	80	15	2	1
	140E	20	15	-20	3	10	1	-1
	138E	50	12	-20	8	20	2	2
	136E	80	40	30	70	60	2	15
254N	134E	50	20	25	30	15	1	10

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
254N	132E	80	50	30	40	60	2	8
	130E	60	20	40	15	30	2	12
	128E	100	30	50	12	30	3	20
	126E	60	30	40	15	25	2	30
	124E	50	50	70	12	25	5	25
	122E	60	40	80	12	20	4	20
	120E	20	20	25	5	7	3	2
	118E	30	250	100	20	7	2	10
	116E	70	50	200	12	60	3	5
	114E	50	50	50	12	15	3	7
	112E	80	60	150	15	60	10	15
	110E	70	50	80	15	70	4	20
	108E	60	50	50	15	60	4	15
	106E	50	40	25	30	70	4	10
	104E	50	50	30	15	40	5	20
	102E	50	50	30	12	25	4	20
	100E	50	50	40	40	50	3	15
254N	98E	25	20	25	8	70	2	6
258N	186E	30	4	-20	20	25	-	1
	184E	70	4	30	25	15	-	1
	182E	50	5	30	30	20	-	4
	180E	20	2	40	25	40	-	1
	178E	50	2	30	15	25	-	-1
	176E	25	8	200	5	25	-	3
	174E	15	7	-20	2	15	-	2
	172E	8	20	50	1	5	-	-1
	170E	15	8	-20	2	10	-	2
	168E	5	12	-20	3	5	-	-1
	166E	20	7	-20	1	4	-	2
	164E	15	7	-20	1	4	-	3
	162E	20	20	-20	4	5	-	7
	160E	20	15	-20	2	6	-	3
	158E	12	10	80	2	6	-	2
	156E	30	25	70	2	15	-	5
	154E	25	8	50	2	15	-	2
	152E	50	12	30	15	20	-	2
	150E	50	2	40	15	25	-	-1
	148E	60	15	25	50	40	-	4
	146E	40	5	25	10	20	-	-1
	144E	10	10	-20	3	5	-	-1
	142E	15	25	20	10	30	-	1
	140E	12	15	-20	5	12	-	-1
	138E	20	30	20	12	20	-	3
	136E	30	30	20	30	30	-	5
	134E	15	15	20	20	25	-	2
258N	132E	15	50	-20	4	12	-	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
258N	130E	25	60	25	50	25	-	8
	128E	15	40	25	8	25	-	8
	126E	12	25	20	8	20	-	-1
	124E	15	25	20	8	20	-	6
	122E	15	20	20	5	20	-	5
	120E	25	20	20	6	20	c-	3
	118E	8	20	80	2	10	-	-1
	116E	20	25	20	3	15	-	5
	114E	25	40	-20	2	15	-	1
	112E	80	60	50	6	20	-	1
	110E	12	20	40	2	10	-	-1
	108E	25	18	20	1	8	-	1
	106E	15	12	20	2	10	-	1
	104E	25	12	20	3	15	-	3
	102E	10	12	30	4	10	-	2
	100E	15	8	20	5	15	-	1
258N	98E	15	20	25	20	30	-	3
262N	186E	10	2	-20	5	5	-	-1
	184E	25	5	-20	10	20	-	-1
	182E	25	6	-20	15	20	-	1
	180E	20	8	-20	40	15	-	-1
	178E	30	10	20	50	25	-	5
	176E	20	5	25	12	15	-	-1
	174E	60	10	25	40	40	-	3
	172E	30	7	20	30	15	-	1
	170E	20	8	30	5	7	-	1
	168E	15	10	-20	4	10	-	-1
	166E	12	5	-20	3	7	-	-1
	164E	12	7	-20	2	6	-	2
	162E	20	8	-20	8	15	-	2
	160E	20	15	-20	7	20	-	3
	158E	20	5	-20	6	20	-	3
	156E	150	5	50	50	60	-	-1
	154E	25	4	-20	10	25	-	-1
	152E	25	10	-20	30	15	-	4
	150E	20	150	40	7	15	-	3
	148E	20	60	30	6	15	-	3
	146E	15	20	-20	5	10	-	1
	144E	12	10	20	4	7	-	2
	142E	15	12	-20	5	12	-	-1
	140E	15	10	-20	5	10	-	4
	138E	15	7	-20	2	8	-	-1
	136E	10	8	-20	3	6	-	-1
	134E	10	10	-20	3	7	-	-1
	132E	12	10	-20	10	12	-	-1
262N	130E	12	10	-20	5	10	-	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
262N	128E	8	8	-20	2	7	-	-1
	126E	12	10	-20	2	8	-	-1
	124E	10	8	-20	2	8	-	-1
	122E	10	15	20	3	10	-	2
	120E	5	8	-20	2	10	-	-1
	118E	10	8	-20	7	15	-	2
	116E	8	4	-20	2	10	-	-1
	114E	9	5	-20	2	10	-	-1
	112E	8	12	-20	4	10	-	-1
	110E	12	15	-20	3	10	-	-1
	108E	8	10	-20	4	6	-	-1
	106E	10	200	200	7	12	-	-1
	104E	8	12	-20	4	6	-	-1
	102E	8	7	-20	5	7	-	-1
	100E	10	12	-20	6	8	-	-1
262N	98E	10	8	-20	6	8	-	-1
266N	184E	30	15	40	2	15	-	4
	182E	15	4	30	10	15	-	4
	180E	10	12	-	1	5	-	7
	178E	25	5	25	30	15	-	2
	176E	10	5	30	1	7	-	-1
	174E	30	4	20	30	20	-	1
	172E	15	2	-20	5	10	-	-1
	170E	30	5	-20	15	20	-	3
	168E	5	25	25	3	5	-	-1
	166E	15	2	-20	3	12	-	-1
	164E	25	10	-20	30	20	-	3
	162E	20	12	-20	12	20	-	2
	160E	25	12	25	40	20	-	2
	158E	15	1	20	3	15	-	-1
	156E	25	25	25	30	20	-	4
	154E	7	1	-20	3	5	-	-1
	152E	25	5	20	5	10	-	1
	150E	10	5	-20	4	8	-	-1
	148E	8	5	-20	4	7	-	-1
	146E	-	-	-	-	-	-	-
	144E	15	7	-20	3	7	-	1
	142E	10	7	-20	2	6	-	1
	140E	8	7	-20	2	5	-	1
	138E	15	8	-20	3	8	-	-1
	136E	12	8	-20	2	7	-	-1
	134E	12	8	-20	4	7	-	-1
	132E	12	5	-20	2	7	-	-1
	130E	12	5	-20	1	7	-	2
266N	128E	15	6	-20	3	8	-	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
266N	126E	8	4	-20	-1	5	-	-1
	124E	12	4	-20	-1	8	-	-1
	122E	10	5	-20	-1	6	-	-1
	120E	8	15	40	5	15	-	-1
	118E	15	20	30	4	8	-	-1
	116E	15	15	20	1	8	-	-1
	114E	8	5	-20	2	8	-	-1
	112E	20	25	50	6	10	-	-1
	110E	8	20	20	2	8	-	-1
	108E	7	8	-20	6	8	-	-1
	106E	7	25	30	2	7	-	-1
	104E	10	7	-20	3	6	-	-1
	102E	10	20	25	2	6	-	-1
	100E	15	60	25	8	10	-	-1
266N	98E	20	7	-20	7	12	-	-1
270N	184E	30	20	-20	3	8	-	12
	180E	200	2	50	40	30	-	-1
	178E	20	2	-20	10	8	-	-1
	176E	60	3	-20	2	8	-	5
	174E	40	2	20	10	15	-	-1
	172E	30	2	25	12	8	-	-1
	170E	40	10	20	30	15	-	2
	168E	25	15	20	10	12	-	2
	166E	12	7	20	5	10	-	-1
	164E	20	30	25	30	8	-	1
	162E	20	5	-20	5	8	-	-1
	160E	30	7	-20	40	15	-	2
	158E	15	6	-20	6	10	-	-1
	156E	20	7	-20	5	8	-	-1
	154E	12	7	-20	4	12	-	-1
	152E	10	12	-20	3	10	-	2
	150E	8	8	-20	4	8	-	-1
	148E	8	12	-20	4	8	-	-1
	146E							
	144E	15	10	-20	8	15	-	-1
	142E	15	12	-20	5	20	--	2
	140E	20	25	-20	12	20	--	-1
	138E	20	25	-20	6	20	-	2
	136E	80	25	25	20	50	-	25
	134E	100	10	100	40	50	-	15
	132E	20	10	20	-1	15	-	5
	130E	8	8	-20	-1	5	-	-1
	128E	25	50	100	3	15	-	-1
	126E	8	10	30	2	5	-	-1
	124E	7	20	70	25	15	-	-1
	122E	7	8	-20	2	5	-	-1
270N	120E	40	25	80	50	40	-	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
270N	118E	8	6	30	4	8	-	-1
	116E	10	5	-20	2	7	-	-1
	114E	8	5	-20	2	5	-	-1
	112E	10	40	25	12	15	-	-1
	110E	8	5	-20	3	5	-	-1
	108E	6	5	-20	2	4	-	-1
	106E	15	50	-20	4	7	-	1
	104E	7	5	-20	2	5	-	-1
	102E	8	5	-20	2	5	-	-1
	100E	8	7	-20	7	6	-	-1
270N	98E	7	7	-20	3	4	-	-1
274N	182E	25	4	30	5	30	-	2
	180E	25	1	20	8	30	-	1
	178E	15	1	-20	5	8	-	-1
	176E	40	2	25	50	30	-	-1
	174E	25	12	20	5	10	-	-1
	172E	70	5	25	7	25	-	2
	170E	30	5	20	15	20	-	-1
	168E	25	10	20	50	20	-	5
	166E	15	10	-20	7	15	-	4
	164E	12	10	25	5	8	-	-1
	162E	10	5	-20	4	8	-	-1
	160E	40	25	25	20	20	-	3
	158E	15	2	25	4	10	-	-1
	156E	5	10	-20	2	6	-	-1
	154E	12	10	-20	4	7	-	-1
	152E	12	25	-20	15	12	-	1
	150E to 146E not drilled.							
	144E	15	12	-20	10	15	-	3
	142E	15	15	-20	15	15	-	2
	140E	10	3	40	15	20	-	2
	138E	150	20	80	25	60	-	4
	136E	60	30	200	15	50	-	8
	134E	150	40	30	8	50	-	20
	132E	200	15	40	15	50	-	5
	130E	250	40	60	40	150	-	15
	128E	30	40	40	5	12	-	5
	126E	20	30	20	4	18	-	3
	124E	20	30	20	3	20	-	-1
	122E	18	25	-20	4	15	-	4
	120E	50	40	25	10	30	-	-1
	118E	15	8	-20	2	10	-	-1
	116E	5	2	-20	-1	2	-	-1
	114E	15	50	-20	40	20	-	3
274N	112E	20	50	-20	30	20	-	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
274N	110E	10	12	-20	5	18	-	2
	108E	18	20	-20	6	20	-	5
	106E	25	25	40	15	20	-	4
	104E	15	20	-20	5	20	-	2
	102E	30	30	30	150	25	-	2
	100E	40	15	-20	40	25	-	2
274N	98E	30	15	-20	10	25	-	2
278N	178E	30	5	30	2	20	-	-1
	176E	15	2	25	15	15	-	-1
	174E	15	2	20	20	15	-	-1
	172E	50	2	50	30	50	-	-1
	170E	10	30	-20	1	7	-	15
	168E	7	7	50	1	7	-	-1
	166E	7	60	80	2	25	-	-1
	164E	8	12	20	10	8	-	-1
	162E	7	15	40	4	10	-	-1
	160E	15	30	50	2	8	-	5
	158E	10	20	-20	3	10	-	-1
	156E to 146E not drilled.							
	144E	15	10	-20	6	8	-	1
	142E	15	8	-20	5	12	-	1
	140E	30	8	-20	6	70	-	3
	138E	80	50	50	100	15	-	8
	136E	60	5	40	5	25	-	4
	134E	30	4	25	6	60	-	2
	132E	80	25	30	8	15	-	20
	130E	30	10	25	10	15	-	2
	128E	20	8	20	5	8	-	3
	126E	15	8	-20	3	7	-	1
	124E	8	8	-20	30	15	-	-1
	122E	10	7	20	2	6	-	-1
	120E	8	5	20	2	5	-	-1
	118E	8	5	-20	3	5	-	-1
	116E	5	3	-20	2	5	-	-1
	114E	15	25	40	10	15	-	-1
	112E	5	25	-20	5	4	-	-1
	110E	12	3	-20	2	4	-	-1
	108E	5	4	-20	6	7	-	1
	106E	15	15	-20	6	6	-	5
	104E	15	7	-20	8	12	-	-1
	102E	5	4	-20	1	4	-	-1
278N	100E	10	10	30	10	10	-	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
282N	176E	15	1	20	8	15	-	-1
	174E	30	2	30	30	20	-	-1
	172E	30	2	40	1	20	-	-1
	170E	25	7	-20	1	6	-	15
	168E	25	12	-20	3	4	-	10
	166E	50	10	600	2	20	-	4
	164E	20	5	50	2	7	-	-1
	162E	10	10	25	5	4	-	2
	160E to 144E not drilled.							
	142E	70	25	60	6	30	-	10
	140E	15	5	-20	1	12	-	-1
	138E	50	15	50	12	40	-	3
	136E	60	15	50	10	50	-	4
	134E	40	15	30	8	50	-	5
	132E	40	150	250	15	70	-	5
	130E	30	40	20	60	30	-	5
	128E	40	30	25	5	30	-	4
	126E	20	20	20	5	25	-	3
	124E	12	6	80	1	5	-	-1
	122E	10	8	60	5	10	-	-1
	120E	15	15	60	5	15	--	-1
	118E	15	15	20	2	12	-	1
	116E	12	8	-20	3	12	-	-1
	114E	18	15	25	5	20	-	-1
	112E	10	12	-20	4	18	-	1
	110E	10	30	40	10	18	-	1
	108E	12	10	-20	5	15	--	1
	106E	15	12	-20	10	25	-	1
	104E	40	50	-20	200	20	-	4
	102E	15	5	-20	6	18	-	-1
282N	100E	25	15	-20	12	20	-	8
286N	142E	40	12	30	2	20	-	5
	140E	50	20	30	1	15	-	10
	138E	25	12	20	2	25	-	1
	136E	20	18	25	8	30	--	2
	134E	15	15	-20	5	25	-	4
	132E	12	15	-20	4	18	-	2
	130E	18	20	-20	10	20	-	3
	128E	20	20	20	6	25	-	4
	126E	20	30	30	4	25	-	4
	124E	15	30	-20	5	25	-	2
	122E	25	40	20	6	30	-	8
	120E	15	8	20	6	10	-	-1
	118E	18	10	-20	5	25	-	2
286N	116E	30	30	50	40	50	-	3

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
286N	114E	15	25	20	12	40	-	2
	112E	15	25	-20	8	30	-	1
	110E	-	-	-	-	-	-	-
	108E	12	15	-20	6	25	-	-1
	106E	12	15	20	5	20	-	1
	104E	15	30	20	12	25	-	1
	102E	50	70	150	15	50	-	-1
	100E	25	40	20	15	30	-	12
286N	98E	20	15	-20	12	30	-	-1
290N	138E	40	8	20	7	30	-	5
	136E	50	30	20	40	30	-	7
	134E	60	40	25	15	40	-	8
	132E	30	15	-20	8	20	-	6
	130E	20	12	-20	2	15	-	2
	128E	25	15	20	5	25	-	8
	126E	25	25	-20	15	30	-	4
	124E	30	25	20	10	30	-	5
	122E	30	20	-20	10	25	-	3
	120E	30	30	20	20	30	-	4
	118E	25	25	20	25	40	-	2
	116E	25	18	20	10	25	-	2
	114E	15	20	-20	25	20	-	2
	112E	12	20	50	8	20	--	-1
	110E	150	12	-20	7	12	-	-1
	108E	15	5	-20	4	12	-	-1
	106E	10	15	-20	5	15	-	1
	104E	25	40	-20	4	25	-	2
	102E	10	20	-20	5	15	-	1
290N	100E	20	40	60	15	25	-	-1
294N	136E	40	10	30	1	12	-	10
	134E	30	7	40	2	15	-	7
	132E	30	12	50	7	20	-	2
	130E	25	5	-20	2	6	-	3
	128E	25	15	-20	15	20	-	3
	126E	25	12	20	25	25	-	2
	124E	15	12	-20	4	10	-	2
	122E	25	15	-20	7	25	-	3
	120E	30	12	-20	60	20	-	3
	118E	15	10	-20	25	20	-	-1
	116E	15	7	-20	15	12	-	-1
	114E	30	30	25	5	7	-	-1
	112E	8	5	-20	50	15	-	-1
	110E	15	8	-20	8	5	-	-1
	108E	15	10	-20	10	8	-	1
294N	106E	25	8	-20	10	10	-	-1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
294N	104E	25	15	40	8	8	-	-1
	102E	10	6	-20	10	10	-	-1
294N	100E	25	5	-20	3	7	-	1
298N	130E	80	25	200	80	80	-	15
	128E	70	60	60	30	50	-	10
	126E	40	25	-20	20	12	-	5
	124E	15	25	-20	15	12	-	8
	122E	20	18	-20	30	20	-	8
	120E	20	10	20	12	30	-	1
	118E	12	12	20	10	12	-	-1
	116E	12	15	-20	3	10	-	-1
	114E	10	15	-20	2	7	-	-1
	112E	7	7	-20	2	5	-	1
	110E	10	8	-20	2	8	-	1
	108E	8	7	-20	2	6	-	-1
	106E	12	8	-20	2	10	-	-1
	104E	12	10	-20	2	10	-	1
	102E	15	10	-20	2	8	-	1
298N	100E	25	8	25	3	7	-	-1
302N	130E	30	10	25	40	20	-	4
	128E	30	15	20	30	20	-	5
	126E	30	20	25	7	15	-	-1
	124E	15	15	20	15	20	-	-1
	122E	25	3	30	20	30	-	-1
	120E	20	12	60	5	10	-	-1
	118E	15	20	400	6	12	-	-1
	116E	20	15	25	3	7	-	-1
	114E4	12	8	-20	3	6	-	-1
	112E	12	10	-20	2	5	-	2
	110E	8	5	-20	4	8	-	-1
	108E	12	10	-20	3	7	-	2
	106E	10	8	-20	7	10	-	1
	104E	50	12	30	5	12	-	-1
	102E	20	15	25	15	15	-	1
302N	100E	25	30	50	2	7	-	1
306N	126E	10	20	-20	5	10	-	-1
	124E	8	20	-20	2	8	-	-1
	122E	8	25	40	3	10	-	-1
	120E	8	25	30	2	8	-	-1
	118E	7	80	800	7	10	-	-1
	116E	15	15	40	3	7	-	-1
	114E	30	18	150	7	7	-	1
	112E	15	8	-20	3	5	-	1
306N	110E	15	15	30	4	10	-	1

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
306N	108E	5	30	50	4	6	-	-1
	106E	4	6	20	1	4	-	-1
	104E	7	5	-20	-1	5	-	-1
	102E	15	5	-20	1	10	-	-1
306N	100E	18	4	-20	-1	5	-	-1
310N	122E	30	50	-20	20	15	-	2
	120E	15	8	-20	5	10	-	-1
	118E	15	8	-20	7	8	-	-1
	116E	5	12	25	3	10	-	-1
	114E	20	8	-20	1	7	-	2
	112E	50	8	30	1	8	-	-1
	110E	25	8	-20	1	8	-	-1
	108E	10	8	-20	1	8	-	-1
	106E	20	15	-20	2	12	-	1
	104E	25	12	50	3	12	-	-1
	102E	12	4	-20	1	6	-	-1
310N	100E	12	15	-20	1	7	-	-1
314N	122E	25	40	25	8	20	-	2
	120E	15	50	100	15	20	-	3
	118E	15	7	-20	8	18	-	2
	116E	15	15	-20	10	15	-	2
	114E	20	18	-20	12	18	-	3
	112E	30	80	30	10	25	-	5
	110E	30	70	50	12	50	-	-1
	108E	25	18	60	5	20	-	-1
	106E	10	8	-20	2	12	-	1
	104E	20	30	70	4	30	-	-1
	102E	12	5	-20	2	10	-	-1
314N	100E	10	20	-20	2	20	-	3
318N	122E	30	80	-20	25	15	-	3
	120E	12	8	-20	5	10	-	1
	118E	15	20	-20	12	15	-	4
	116E	10	18	-20	20	10	-	-1
	114E	50	60	25	70	30	-	5
	112E	60	50	20	30	40	-	5
	110E	50	30	30	5	30	-	1
	108E	50	50	30	20	25	-	4
	106E	20	25	-20	3	20	-	2
	104E	30	30	-20	2	25	-	5
	102E	15	15	-20	2	10	-	2
318N	100E	50	40	20	25	50	-	7

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
322N	122E	25	20	20	3	15	-	3
	120E	10	20	30	10	8	-	1
	118E	40	30	20	40	15	-	2
	116E	50	80	30	30	18	-	2
	114E	30	20	-20	8	15	-	-1
	112E	40	40	25	25	20	-	4
	110E	20	20	50	5	25	-	-1
	108E	15	15	-20	1	8	-	2
	106E	18	15	-20	3	12	-	5
	104E	50	50	-20	7	30	-	7
	102E	20	15	-20	3	12	-	3
322N	100E	30	40	-20	80	30	-	4
326N	122E	50	40	150	40	20	-	3
	120E	8	30	50	8	10	-	-1
	118E	10	30	60	8	25	-	-1
	116E	50	40	120	12	12	-	1
	114E	25	80	80	15	15	-	1
	112E	80	18	70	40	15	-	-1
	110E	10	12	-20	2	8	-	1
	108E	20	15	20	3	8	-	1
	106E	25	20	-20	3	10	-	5
	104E	15	12	-20	2	10	-	4
	102E	20	18	20	6	15	-	5
326N	100E	15	20	-20	7	15	-	5
330N	122E	80	30	25	12	20	-	3
	120E	18	15	-20	5	15	-	1
	118E	20	15	-20	10	18	-	1
	116E	10	8	-20	1	15	-	1
	114E	12	10	-20	2	12	-	-1
	112E	20	25	-20	5	20	--	-1
	110E	30	80	200	40	40	-	1
	108E	20	150	150	2	8	-	1
	106E	25	15	25	8	18	-	3
	104E	25	25	-20	2	12	-	7
	102E	30	15	25	6	12	-	-1
330N	100E	15	15	-20	5	15	-	-1
334N	122E	15	15	-20	8	12	-	3
	120E	60	60	250	8	15	-	6
	118E	25	50	40	12	50	-	3
	116E	18	25	30	10	40	-	5
	114E	18	25	-20	4	25	-	2
	112E	12	10	-20	2	15	-	-1
	110E	20	20	20	8	25	-	5
334N	108E	25	20	20	4	15	-	3

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
334N	106E	20	20	-20	4	15	-	2
	104E	20	30	-20	10	20	-	8
	102E	20	30	-20	7	20	-	7
334N	100E	20	25	-20	7	20	-	5
338N	122E	18	15	-20	5	12	-	2
	120E	30	40	30	10	25	-	2
	118E	12	15	-20	3	10	-	-1
	116E	20	40	40	10	30	-	1
	114E	8	15	-20	2	8	-	-1
	112E	60	40	100	15	40	-	-1
	110E	30	30	70	15	40	-	-1
	108E	15	20	20	2	12	-	1
	106E	18	15	20	3	15	-	1
	104E	20	15	-20	3	18	-	3
	102E	15	18	-20	2	10	-	3
338N	100E	25	25	-20	8	20	-	3
342N	120E	25	20	-20	2	15	-	1
	118E	15	15	-20	2	15	-	-1
	116E	15	25	30	10	20	-	1
	114E	40	50	80	25	40	-	2
	112E	20	40	25	3	20	-	1
	110E	15	20	-20	1	15	-	-1
	108E	15	15	40	10	20	-	-1
	106E	12	15	-20	3	15	-	4
	104E	8	5	-20	1	8	-	3
	102E	15	20	-20	6	30	-	10
342N	100E	15	12	-20	4	15	-	4
346N	116E	12	18	-20	3	10	-	3
	114E	20	18	-20	5	20	-	4
	112E	20	15	-20	3	15	-	2
	110E	30	25	25	3	12	-	3
	108E	15	15	-20	2	10	-	2
	106E	15	18	-20	3	25	-	-1
	104E	15	15	-20	4	20	--	1
	102E	12	18	-20	15	18	-	3
346N	100E	20	60	40	7	15	-	-1
350N	124E	10	5	-20	1	10	-	-1
	122E	12	7	-20	3	8	-	-1
	120E	15	15	-20	7	15	-	-1
	118E	15	18	-20	2	10	-	10
	116E	20	30	40	7	12	-	-1
350N	114E	12	10	-20	2	10	-	2

-20 = Less than 20 p.p.m.

CO-ORDINATES		COPPER	LEAD	ZINC	COBALT	NICKEL	BISMUTH	MOLYBDENUM
350N	112E	12	12	-20	1	10	-	2
	110E	30	30	20	3	8	-	7
	108E	25	20	-20	4	12	-	6
	106E	20	18	-20	5	15	-	6
	104E	20	30	-20	4	15	-	6
	102E	15	20	-20	4	12	-	2
350N	100E	20	50	-20	7	10	-	3
354N	116E	15	25	-20	10	12	-	-1
	114E	12	15	-20	3	10	-	2
	112E	12	20	-20	4	12	-	4
	110E	12	20	-20	3	10	-	2
	108E	15	20	-20	7	15	-	3
	106E	10	20	-20	7	15	-	3
	104E	10	15	-20	6	12	--	2
	102E	15	50	-20	15	12	-	3
354N	100E	12	18	-20	12	20	-	2
358N	112E	15	18	50	10	15	-	1
	110E	15	18	-20	4	10	-	7
	108E	25	18	20	3	12	-	8
	106E	50	25	80	15	40	-	-1
	104E	20	20	-20	3	10	-	2
	102E	25	25	-20	10	10	--	3
358N	100E	15	20	-20	8	10	-	4
362N	108E	12	15	-20	4	12	-	7
	106E	15	30	30	3	8	-	-1
	104E	12	15	-20	4	10	-	3
	102E	12	15	-20	5	8	-	3
362N	100E	12	40	-20	12	8	--	4

-20 = Less than 20 p.p.m.

PLATE I

362 N
350 N
330 N
310 N
290 N
270 N
250 N
230 N
210 N
190 N
170 N
150 N
130 N
110 N
90 N
70 N
50 N
30 N

Base Line 10,000 E

True North

Pam
Pld
Pdo
Plo
Plr

Billabong
Billabongs
Black shale
Rum Jungle Creek
Finniss River
Giants Reef Fault
Silicified tremolite schist
Coarse crystalline dolomite
Quartz pebble conglomerate
Calcareous ?
North overturned syncline
203.5 N
Calcareous

① ② ③ ④

Reference

- Pld — Golden Dyke formation
- Plo — Coomalie dolomite
- Plr — Crater formation
- Pdo — Dolerite
- Pam — Amphibolite

- Formation boundary
- Outcrop boundary
- F — Fault

- Copper > 500 p.p.m.
- Zinc > 300 p.p.m.
- Cobalt > 100 p.p.m.
- Nickel > 400 p.p.m.

- Radiometric > ·050 mR/hr
- Electromagnetic axes of major Slingram Real component anomalies
- Magnetic axes of major anomalies in Vertical Magnetic field.
- ④ Numbers refer to anomalies mentioned in the geochemical report

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE TRIANGLE

GEOLOGY, GEOCHEMICAL AND GEOPHYSICAL ANOMALIES

SCALE
1000 0 1000 2000 3000 FEET

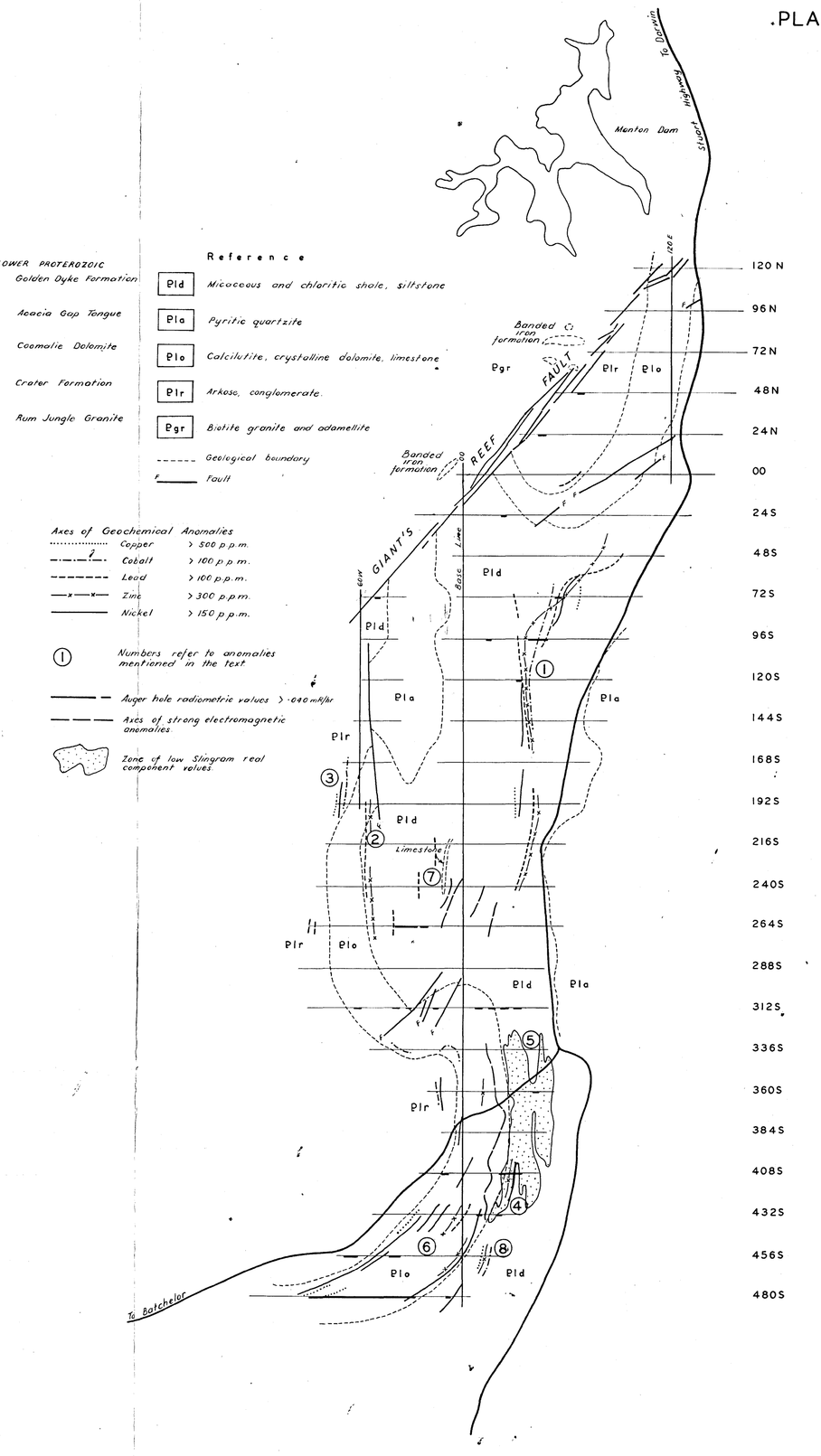
Bureau of Mineral Resources, Geology and Geophysics, Darwin
May 1965

To accompany Record 1965/254

D52/A4/63

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.PLATE 2



GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST

GEOCHEMICAL AND GEOPHYSICAL ANOMALIES

True North

SCALE

3000 0 3000 6000 9000 12000 FEET

1:50,000

Bureau of Mineral Resources, Geology and Geophysics, Darwin May 1965 To accompany Record 1965/254 D52/A4/64

PLATE 3

142 N
130 N
110 N
90 N
70 N
50 N
30 N

Plo
Pld
Plr
Pld
Plo
Plr
Pld
Plo
Plr
Pld
Plo
Plr

Quartz rubble
Quartz rubble
Quartz rubble

Giant's Reef Fault

Finniss River

Base Line 10,000E
179° 58' 00"

Reference

LOWER PROTEROZOIC

Golden Dyke Formation — Pld — Sericitic schist and chlorite schist, black shale

Coomalie Dolomite — Plo — Dolomite, tremolite schist and calcareous shale, minor black shale

Crater Formation — Plr — Arkose, mica rock, hematite boulder conglomerate

Formation boundary. Broken line based on auger cuttings, full line established by outcrop.

Outcrop boundary

Fault. Full line position accurate, broken line position approximate, broken and queried fault inferred.

Dip and strike of bedding

Plunge of lineation on bedding

Quartz vein

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE

GEOLOGY

Auger drilling at 200 feet intervals along traverses between points shown

True North

SCALE

400 0 400 800 1200 1600 FEET

Bureau of Mineral Resources, Geology and Geophysics, Darwin March 1965

To accompany Record 1965/254

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PLATE 4

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE

GEOLOGY

True North

Auger drilling at 200 feet intervals along traverses between points shown

SCALE
400 0 400 800 1200 1600 FEET

250N
230N
210N
190N
170N
150N
142N

Reference

LOWER PROTEROZOIC

	Pdo	Dolerite
	Pam	Amphibolite
Golden Dyke Formation	Pld	Sericite schist, chlorite schist, black shale
Coomalie Dolomite	Plo	Dolomite, tremolite schist, calcareous shale, minor black shale.
Crater Formation	Plr	Arkose, mica rock, hematite boulder conglomerate

——— Formation boundary. Broken line based on auger cuttings, full line established by outcrop.

——— Outcrop boundary

———?——— Fault. Full line position accurate. Broken line position approximate, broken and queried fault inferred.

Dip and strike of bedding

Plunge of lineation on bedding

Quartz vein

Black shale

Pld
Pam
Plo
Pdo
Plr
bs
q
Rum Jungle Creek
Finniss River
Billabong
Silicified tremolite schist
Dolomite
Quartz rubble
Coarse crystalline dolomite
Quartz pebble conglomerate
Giant's Reef Fault

Base Line 10,000 E
179° 58' 00"

Bureau of Mineral Resources, Geology and Geophysics, March 1965

To accompany Record 1965/254

D52/A4/66

Sheet 2 of 4 Sheets

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PLATE 5

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE

GEOLOGY

Auger drilling at 200 feet intervals along traverses between points shown

SCALE

400 0 400 800 1200 1600 FEET

True North

362 N
350 N
330 N
310 N
290 N
270 N
250 N

Pam
Pld
Pdo
b.s.
q
quartz rubble
Finniss River
Billabong

Reference

LOWER PROTEROZOIC
Golden Dyke Formation

- Pld — Sericite schist, chlorite schist, black shale
- Pdo — Dolerite
- Pam — Amphibolite
- Formation boundary. Broken line based on auger cuttings, full line established by outcrop.
- Outcrop boundary
- Fault. Full line position accurate; broken line position approximate.
- q — Quartz vein.
- b.s. — Block shale

Base Line
10,000 E
179°58'00"

Bureau of Mineral Resources, Geology and Geophysics, Darwin, March 1965

To accompany Record 1965/254

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PLATE 6

246N
230N
210N
190N
178N

Rum Jungle Creek

Reef Fault

Giant's

North Australian Railway

Plo

b.s.

203·5 N

Reference

LOWER PROTEROZOIC.

Coomalie Dolomite — Plo — Dolomite, tremolite schist, calcareous shale, minor black shale

——— Fault. Full line position accurate, broken line position approximate.

b.s. Black shale

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE TRIANGLE

GEOLOGY

Auger drilling at 200 feet intervals along traverses between points shown

SCALE

400 0 400 800 1200 FEET

True North

Bureau of Mineral Resources, Geology and Geophysics, Darwin, March 1965

To accompany Record 1965/254

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Sheet 4 of 4 Sheets

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PLATE 7

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST

GEOLOGY

True North

SCALE
1000 0 1000 2000 3000 FEET

Reference

LOWER PROTEROZOIC

Golden Dyke Formation	Pld	Micaceous and chloritic shale, siltstone
Acacia Gap Formation	Pla	Pyritic quartzite
Coomalie Dolomite	Plo	Calcilutite, crystalline dolomite, limestone
Crater Formation	Plr	Arkose, conglomerate
Rum Jungle Granite	Pgr	Biotite granite and adamellite
	B.I.F.	"Banded ironstone formation"

- Formation boundary. Broken line based on auger cuttings, full line established by outcrop.
- Outcrop boundary
- Fault. Full line position accurate, broken line position approximate, broken and queried line, fault inferred.
- Dip and strike of bedding.
- Plunge of lineation
- Quartz vein
- Vehicle track

120 E Minor Base Line

To Darwin

Pgr

Plo

Pld

Plr

Pla

Giant's Reef

Stuart Highway

B.I.F.

Costeans
Woodcutter's Prospect

Sinkhole

60 W Minor Base Line

00 Base Line 179°00'00"

98E 161E 120N
81E 143E 96N
73E 72N
58E 157E 48N
50E 151E 24N
148E 00
24W 130E 24S
6W 118E 48S
4W 104E 72S
12W 94E 96S
54W
38W

Bureau of Mineral Resources, Geology and Geophysics, Darwin, April 1965

To accompany Record 1965/254

D52/N4/69

Sheet 1 of 3 Sheets

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PLATE 8

Giant's Reef Fault

Pld

Pla

Plr

Plo

Woodcutters South Track

Stuart Highway

To Darwin

Limestone

Costeans

Homestead

Base Line
179° 00' 00"

60W 12W 8 96E 108W 86E 64W 37W 7W 84E 70W 42W 15W 74E 78W 68E 90W 60E 86W 54E 90W 58E 96W 58E 90W 50E

True North

965
1205
1445
1685
1925
2165
2405
2645
2885
3125

Reference

LOWER PROTEROZOIC

Golden Dyke Formation — Pld — Micaceous and chloritic shale, siltstone.

Acacia Gap Tongue — Pla — Pyritic quartzite

Coomalie Dolomite — Plo — Calcilutite, crystalline dolomite, limestone

Crater Formation — Plr — Arkose, conglomerate

Formation boundary. Broken line based on auger cuttings. Full line established by outcrop.

Outcrop boundary.

Fault. Full line position accurate. Broken line position approximate. Broken and queried, fault inferred.

83 Dip and strike of bedding.

Vehicle track.

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST

GEOLOGY

SCALE
1000 0 1000 2000 3000 FEET

Bureau of Mineral Resources, Geology and Geophysics, Darwin, April 1965

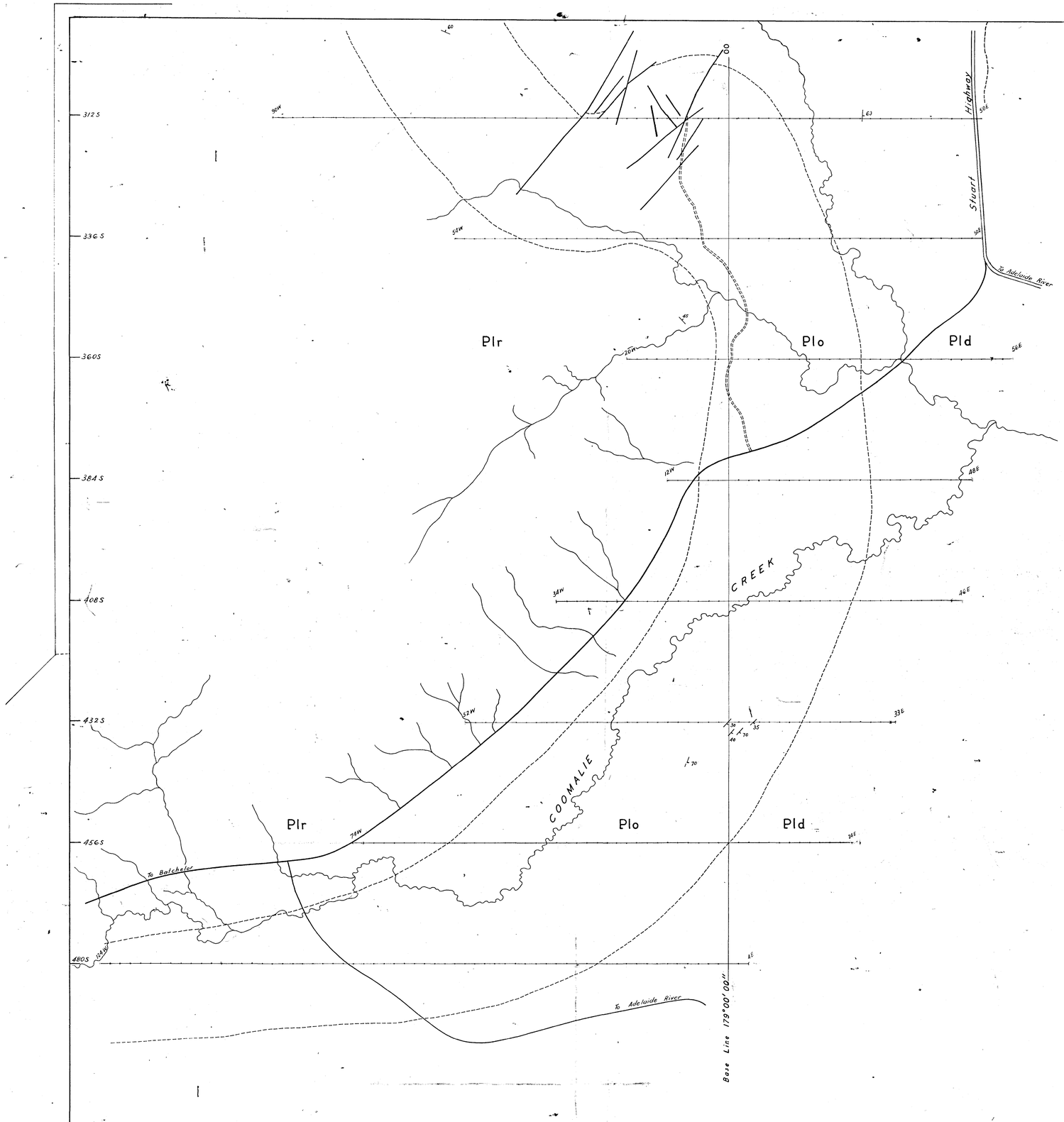
To accompany Record 1965/254

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PLATE 9



True North

Reference

LOWER PROTEROZOIC

Golden Dyke Formation — Pld — Micaceous and chloritic shale, siltstone.

Coomalie Dolomite — Plo — Calcilutite, crystalline dolomite, limestone.

Crater Formation — Plr — Arkose, conglomerate.

------- Formation boundary. Broken line based on auger cuttings.

——— Fault. Full line position accurate.

70 Dip and strike of bedding.

======= Vehicle track.

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST, N.T.

GEOLOGY

SCALE

1000 0 1000 2000 3000 FEET

Bureau of Mineral Resources, Geology and Geophysics, Darwin April 1965

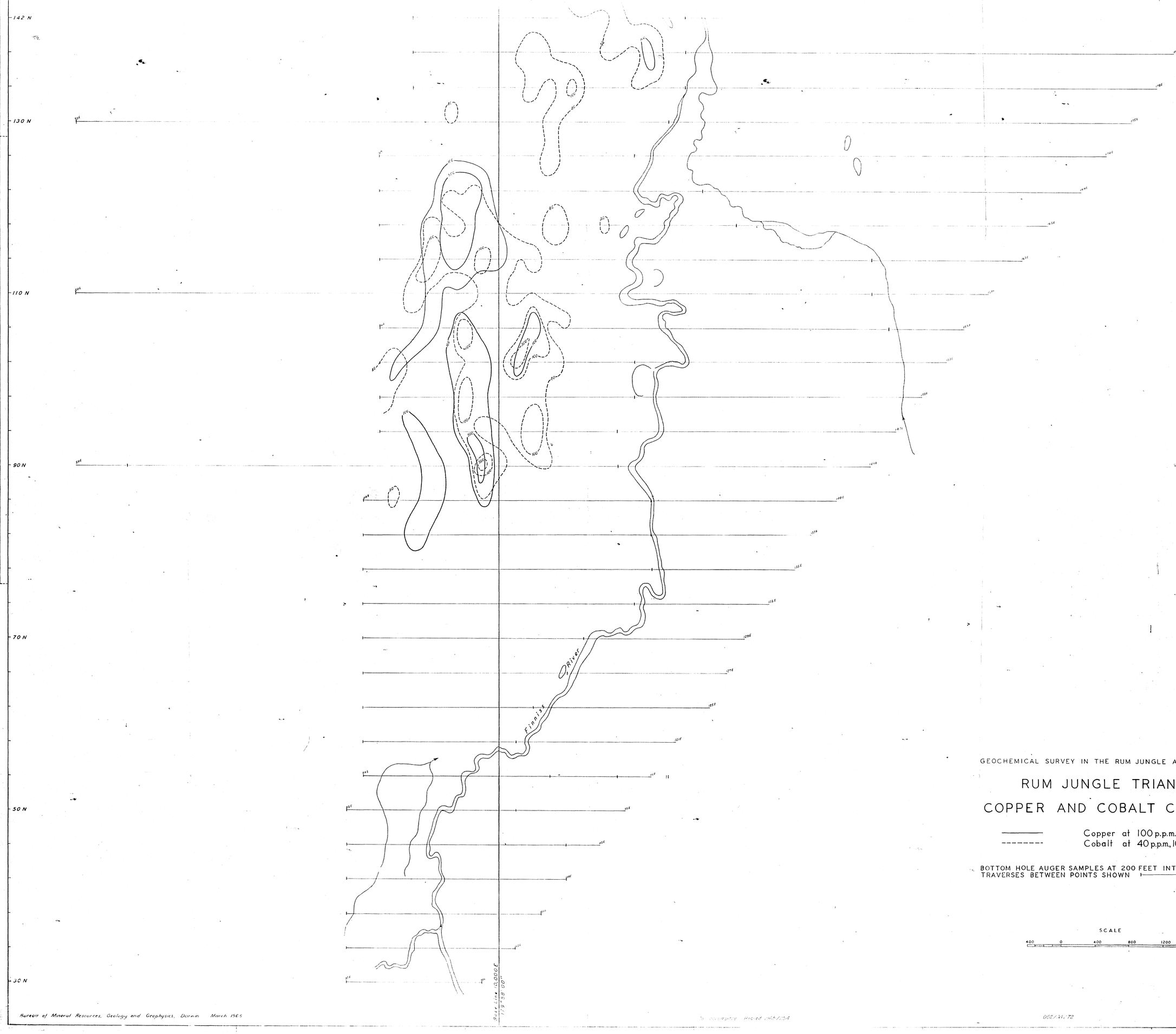
To accompany Record 1965/254

D52/A4/71

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PLATE 10



Bureau of Mineral Resources, Geology and Geophysics, Darwin March 1965

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE

COPPER AND COBALT CONTOURS

——— Copper at 100 p.p.m., 500 p.p.m.

- - - - - - - - Cobalt at 40 p.p.m., 100 p.p.m., 300 p.p.m.

BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES BETWEEN POINTS SHOWN

True North

SCALE

400 0 400 800 1200 1600 FEET

DGG/VA.72

Sheet 1 of 4 Sheets

PLATE II

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE

COPPER AND COBALT CONTOURS

———— Copper at 100 p.p.m., 500 p.p.m., 1000 p.p.m.
– – – – – – – – Cobalt at 40 p.p.m., 100 p.p.m., 300 p.p.m.

BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES BETWEEN POINTS SHOWN

True North

SCALE
400 0 400 800 1200 1600 FEET

250N
230N
210N
190N
170N
150N
142N

Finniss River

Rum Jungle Creek

Base Line 10,000 E
179° 58' 00"

To accompany Record 1965/254

D52/14/73

PLATE 12

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE

COPPER AND COBALT CONTOURS

—————— Copper at 100 p.p.m., 500 p.p.m.

- - - - - - - - - - Cobalt at 40 p.p.m., 100 p.p.m., 300 p.p.m.

BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES BETWEEN POINTS SHOWN

SCALE

400 0 400 800 1200 1600 FEET

True North

362 N
350 N
330 N
310 N
290 N
270 N
250 N

Finniss River

Base Line
10,000 E
179°58'00"

Bureau of Mineral Resources, Geology and Geophysics, Darwin, March 1963

To accompany Record 1965/254

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H182

PLATE 13

246N

230N

210N

190N

178N

Rum Jungle Creek

North Australian Railroad

203·5 N

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE TRIANGLE
COPPER AND COBALT CONTOURS

——————— Copper at 100 p.p.m., 500 p.p.m.

– – – – – – – – Cobalt at 40 p.p.m., 100 p.p.m., 300 p.p.m.

BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES BETWEEN POINTS SHOWN

SCALE

400 0 400 800 1200 FEET

True North

Bureau of Mineral Resources, Geology and Geophysics, Canberra, March, 1965

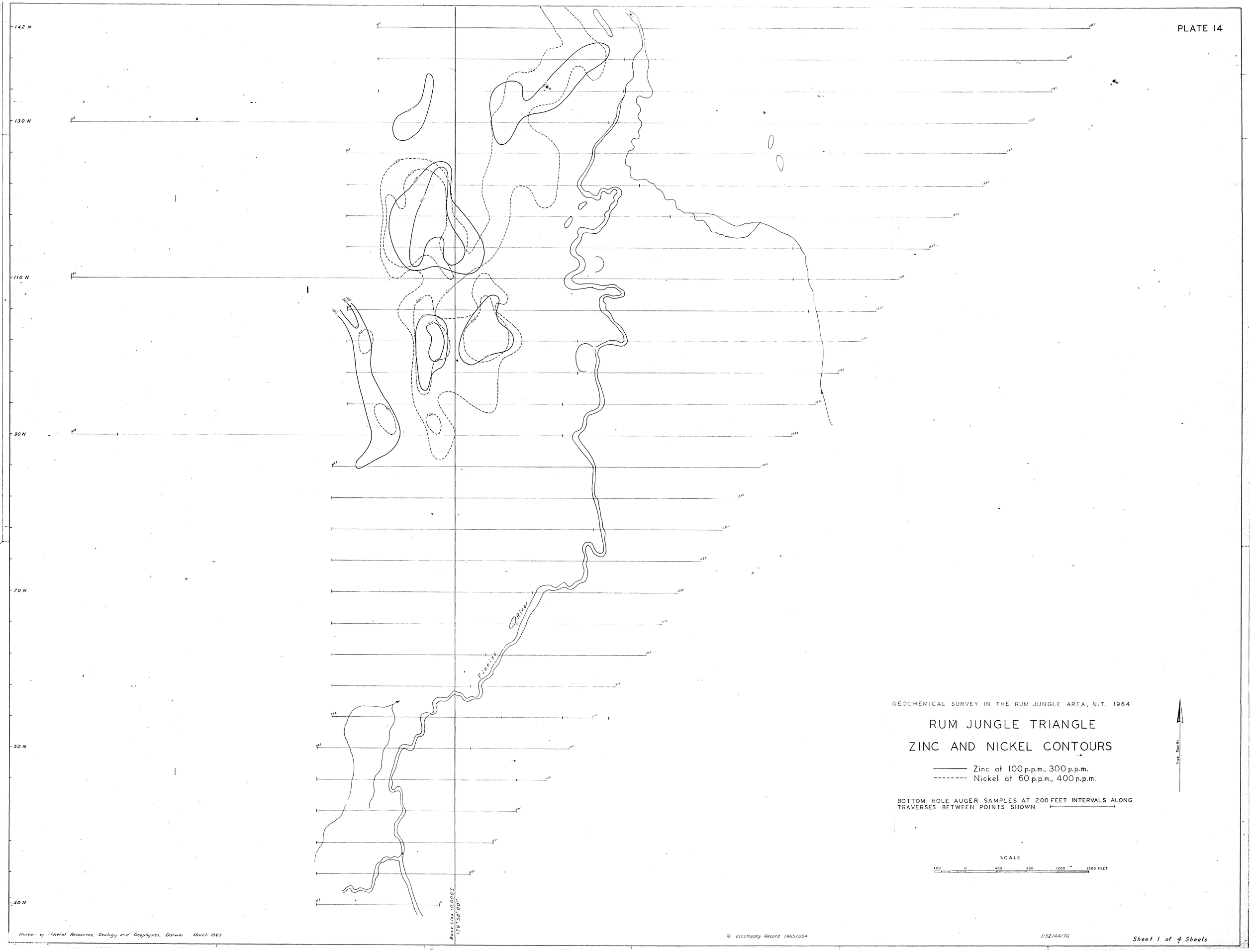
to accompany Record 1965/254

D52/A4/75

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PLATE 14



GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE

ZINC AND NICKEL CONTOURS

——— Zinc at 100 p.p.m., 300 p.p.m.
-------- Nickel at 60 p.p.m., 400 p.p.m.

BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES BETWEEN POINTS SHOWN

True North

SCALE

400 0 400 800 1200 1600 FEET

Bureau of Mineral Resources, Geology and Geophysics, Darwin March 1965

To accompany Record 1965/254

D52/A4/76

Sheet 1 of 4 Sheets

PLATE 15

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE

ZINC AND NICKEL CONTOURS

Zinc at 100 p.p.m., 300 p.p.m., 800 p.p.m.

Nickel at 60 p.p.m., 400 p.p.m.

BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES BETWEEN POINTS SHOWN

True North

SCALE

400 0 400 800 1200 1600 FEET

250 N
230 N
210 N
190 N
170 N
150 N
142 N

Finniss River

Rum Jungle Creek

Nickel determined on Traverses 222 N to 234 N only.

Nickel not determined

Nickel not determined

Nickel not determined

Nickel not determined

Nickel not determined

Nickel not determined

Nickel not determined

Base Line 10,000 E
179° 59' 00"

To accompany Record 1965/254

D52/A4/17

Sheet 2 of 4 Sheets

PLATE 16

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE

ZINC AND NICKEL CONTOURS

——— Zinc at 100 p.p.m., 300 p.p.m., 800 p.p.m.

- - - - - - - - Nickel at 60 p.p.m.

BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES BETWEEN POINTS SHOWN

SCALE

400 0 400 800 1200 1600 FEET

True North

362 N
350 N
330 N
310 N
290 N
270 N
250 N

Finniss River

Base Line
10,000 E
179°58'00"

Bureau of Mineral Resources, Geology and Geophysics, Darwin, March 1965

To accompany Record 1965/254

D52/A4/78

Sheet 3 of 4 Sheets

PLATE 17



GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE TRIANGLE

ZINC AND NICKEL CONTOURS

——————— Zinc at 100 p.p.m., 300 p.p.m., 800 p.p.m.

---------- Nickel at 60 p.p.m., 400 p.p.m.

BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES BETWEEN POINTS SHOWN

SCALE

400 0 400 800 1200 FEET

True North

Bureau of Mineral Resources, Geology and Geophysics, Darwin.

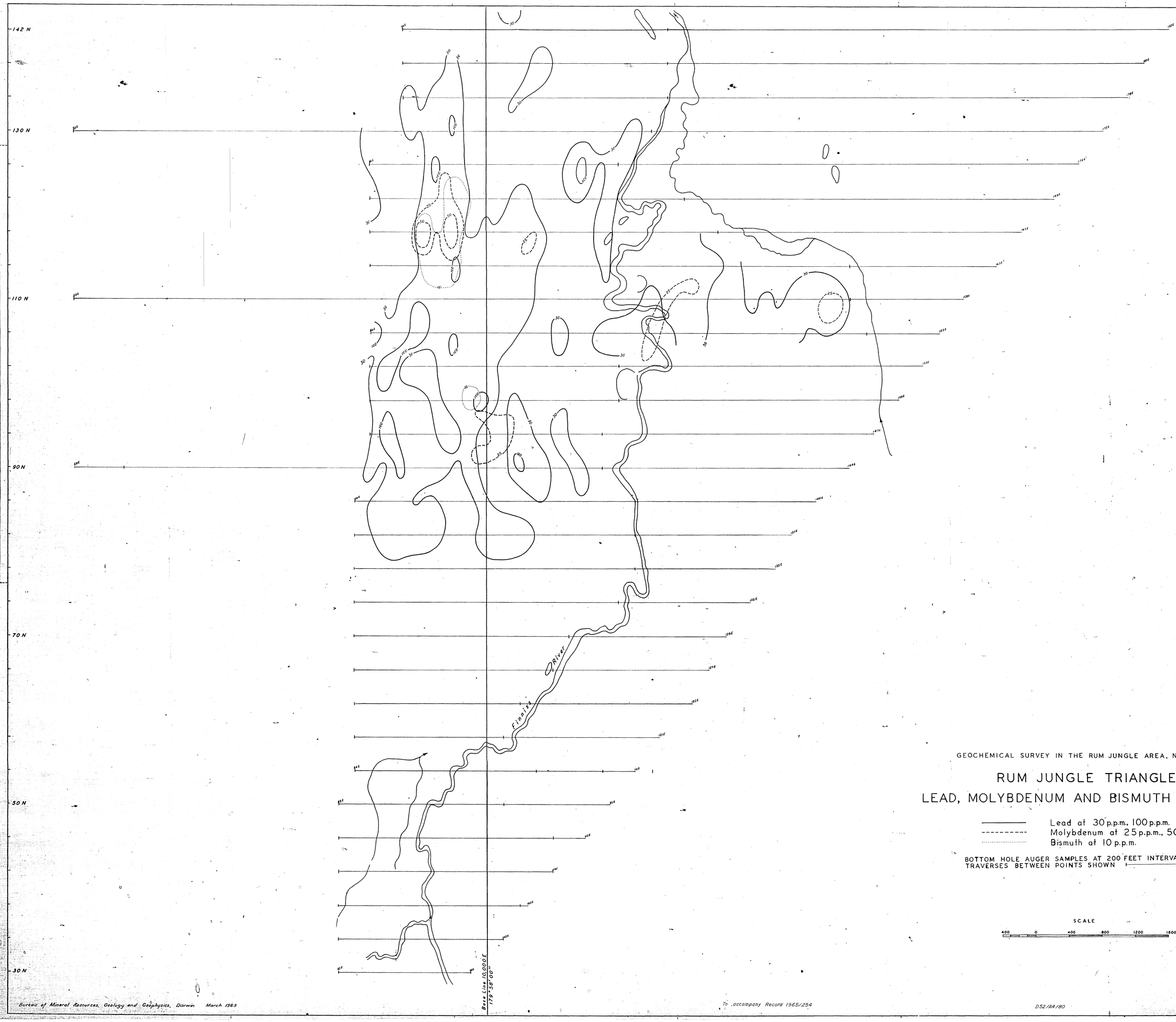
To accompany Record 1965/254

D52/A4/179

Sheet 4 of 4 Sheets

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PLATE 18



GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE
LEAD, MOLYBDENUM AND BISMUTH CONTOURS

———— Lead at 30 p.p.m., 100 p.p.m.
- - - - - - - - - Molybdenum at 25 p.p.m., 50 p.p.m.
..... Bismuth at 10 p.p.m.

BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES BETWEEN POINTS SHOWN

True North

SCALE

400 0 400 800 1200 1600 FEET

Bureau of Mineral Resources, Geology and Geophysics, Darwin March 1965

To accompany Record 1965/254

D52/A4/80

Sheet 1 of 4 Sheets

PLATE 19

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE
LEAD, MOLYBDENUM AND BISMUTH CONTOURS

True North

——— Lead at 30 p.p.m., 100 p.p.m.
- - - - - - Molybdenum at 25 p.p.m., 50 p.p.m.
..... Bismuth at 10 p.p.m.

BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES BETWEEN POINTS SHOWN

SCALE
400 0 400 800 1200 1600 FEET

250 N
230 N
210 N
190 N
170 N
150 N
142 N

Bismuth not determined

Finniss River

Rum Jungle Creek

Base Line 10,000 E
179° 58' 00"

To accompany Record 1965/254

D54/A4/81

Sheet 2 of 4 Sheets

H189

PLATE 20

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

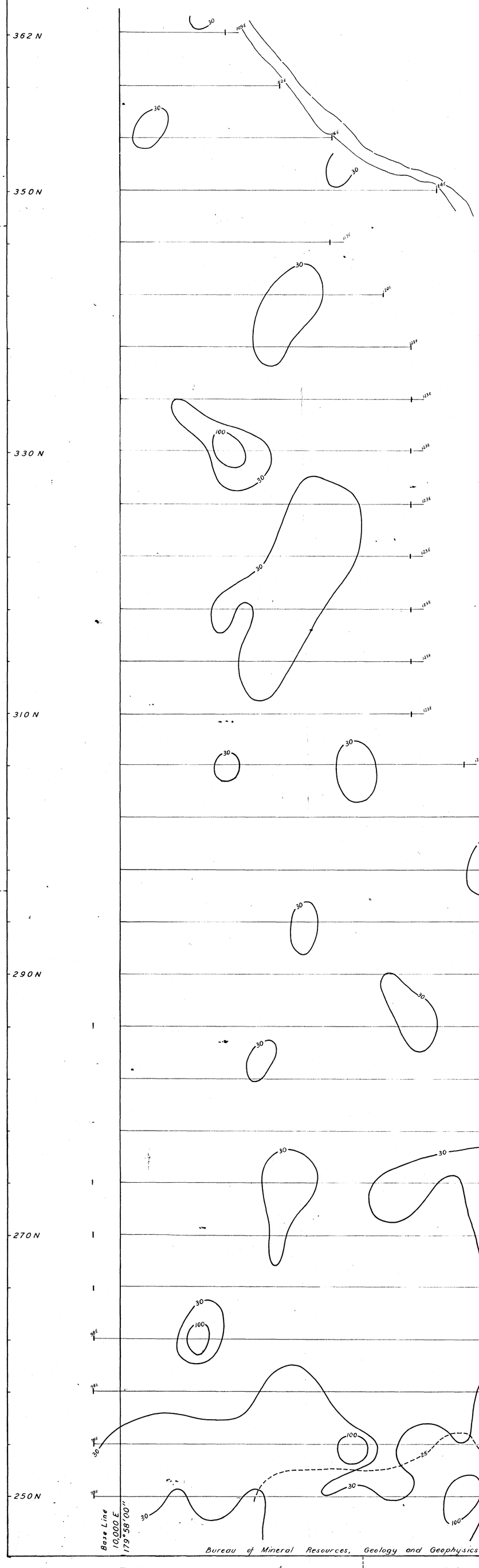
RUM JUNGLE TRIANGLE
LEAD AND MOLYBDENUM CONTOURS

——— Lead at 30 p.p.m., 100 p.p.m.
- - - - - - - Molybdenum at 25 p.p.m., 50 p.p.m.

BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES BETWEEN POINTS SHOWN

SCALE
400 0 400 800 1200 1600 FEET

True North



Base Line
10,000 E
179°58'00"

Bureau of Mineral Resources, Geology and Geophysics, Darwin, March 1965

To accompany Record 1965/254

D52/A4/82 Sheet 3 of 4 Sheets

H190

PLATE 21

246N

230N

210N

190N

178N

Rum Jungle Creek

North Australian Railway

Bismuth not determined

Bismuth not determined

Bismuth not determined

Bismuth not determined

203.5 N

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE TRIANGLE
LEAD, MOLYBDENUM AND BISMUTH CONTOURS

——— Lead at 30 p.p.m., 100 p.p.m.
- - - - - - - - - Molybdenum at 25 p.p.m., 50 p.p.m.,
..... Bismuth at 10 p.p.m.

BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES BETWEEN POINTS SHOWN ⊢——⊣

SCALE
400 0 400 800 1200 FEET

True North

Bureau of Mineral Resources, Geology and Geophysics Darwin March 1965

To accompany Record 1965/254

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PLATE 22

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST
ZINC, COPPER AND LEAD PROFILES

BASED ON BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES.

----- Zinc 1" = 500 p.p.m.

——— Copper 1" = 500 p.p.m.

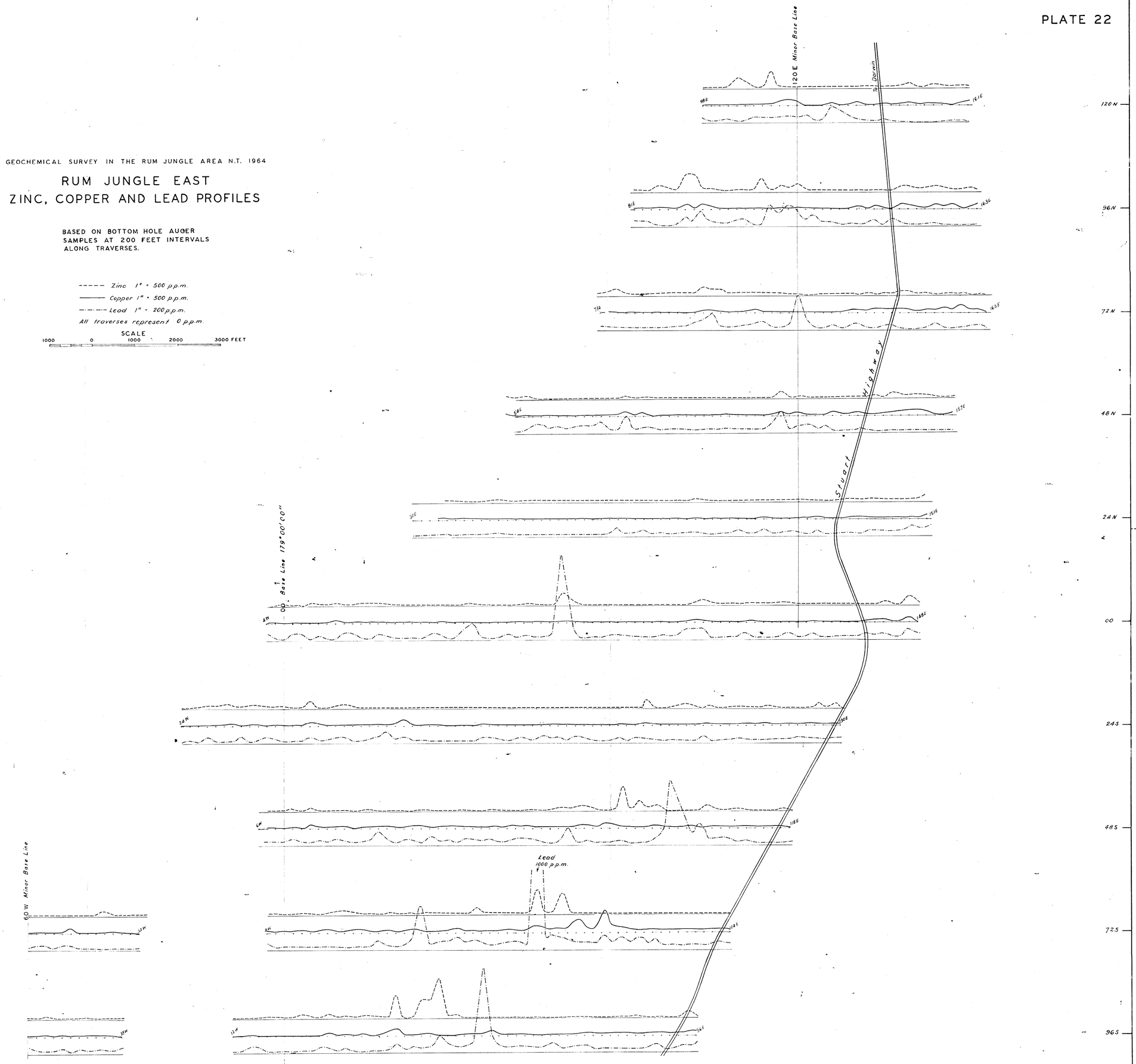
-·-·- Lead 1" = 200 p.p.m.

All traverses represent 0 p.p.m.

SCALE

1000 0 1000 2000 3000 FEET

True North



Bureau of Mineral Resources, Geology and Geophysics, Darwin, April 1965

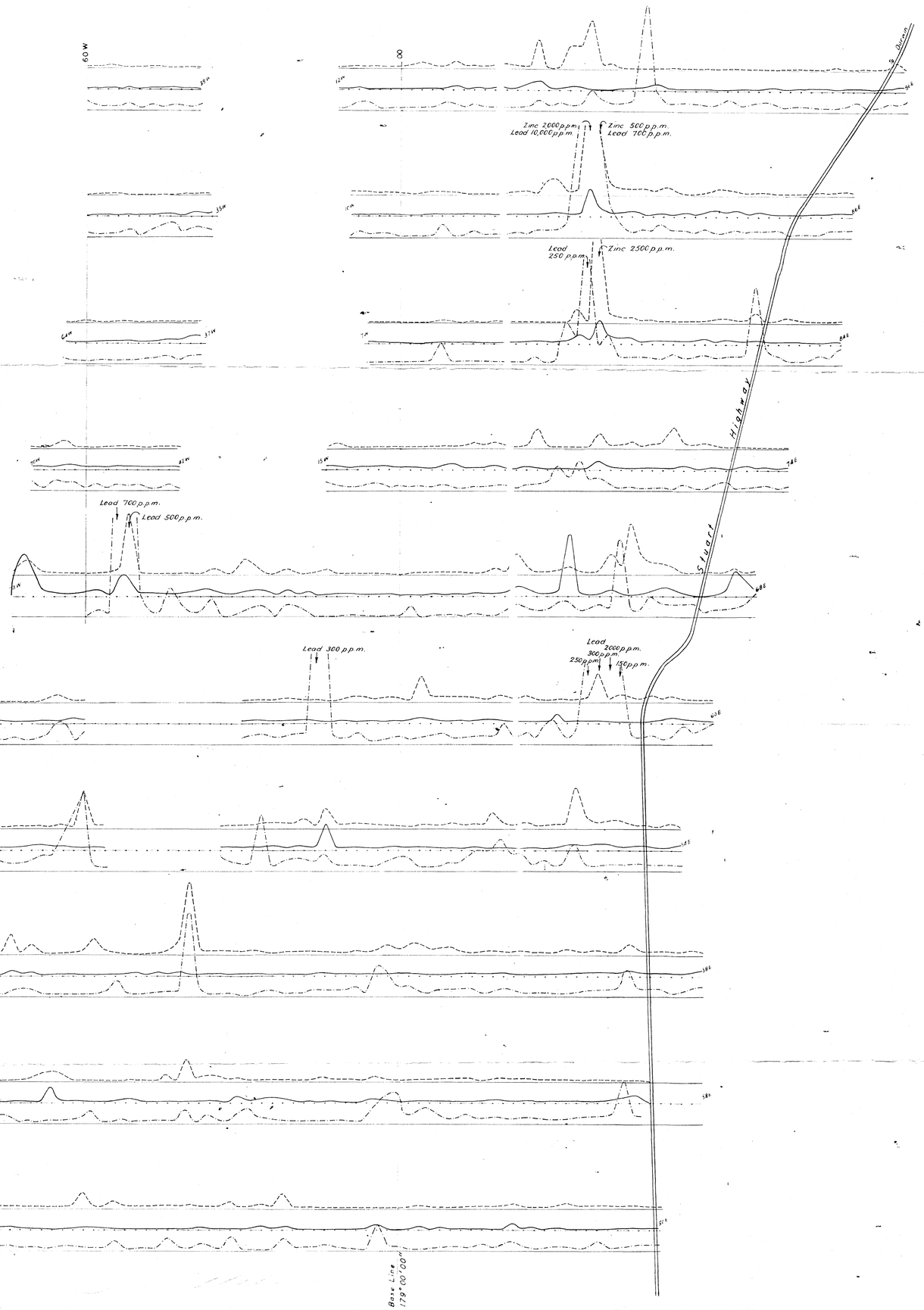
To accompany Record 1965/254

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PLATE 23



965
1205
1445
1685
1925
2165
2405
2645
2885
3125

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST

ZINC, COPPER AND LEAD PROFILES

BASED ON BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES.

Zinc 1" = 500 p.p.m.
Copper 1" = 500 p.p.m.
Lead 1" = 100 p.p.m.

All traverses represent 0 p.p.m.

SCALE
1000 0 1000 2000 3000 FEET

Bureau of Mineral Resources, Geology and Geophysics Darwin. April 1965

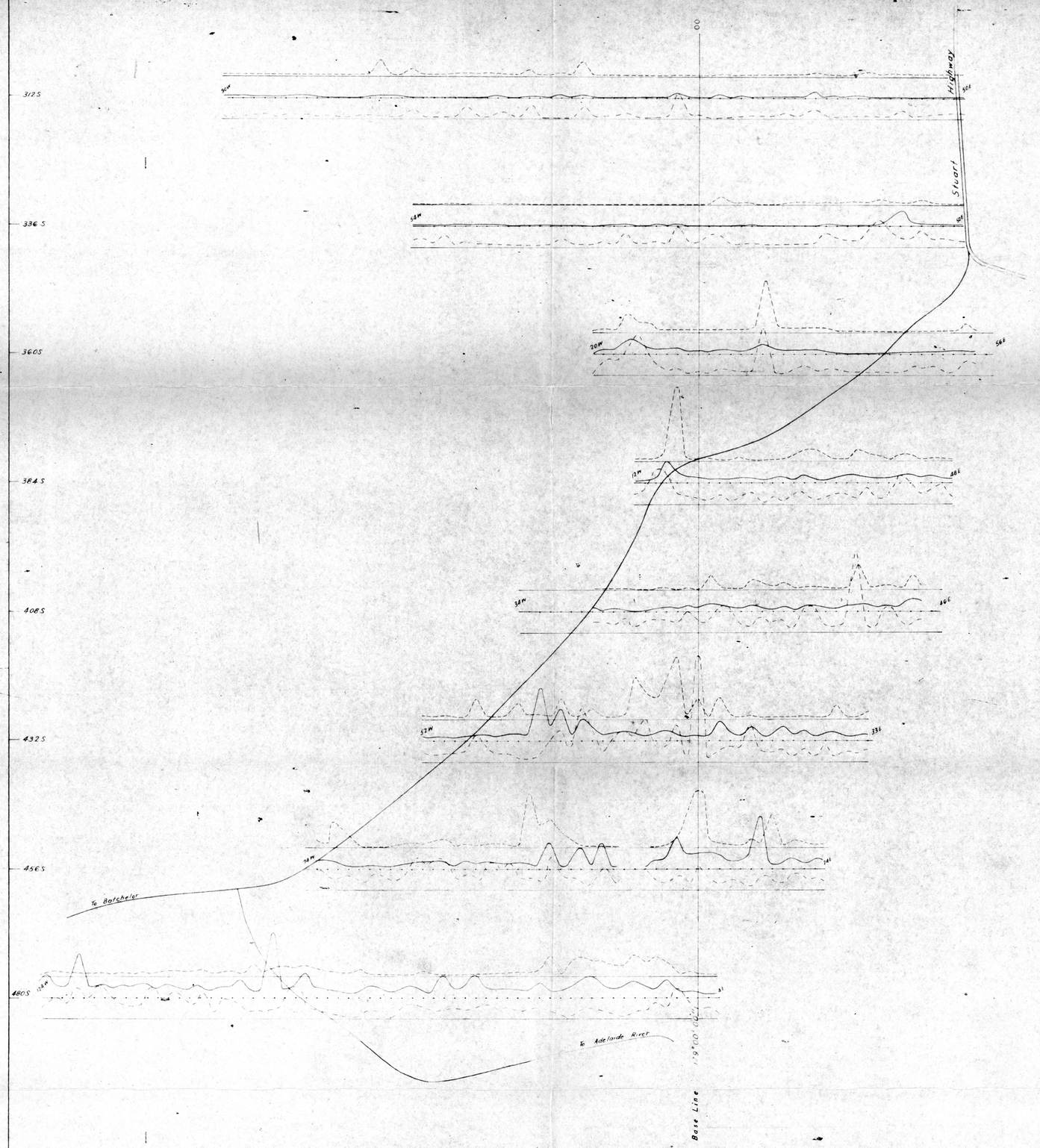
To accompany Record 1965/254

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PLATE 24



True North

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST
ZINC, COPPER AND LEAD PROFILES

BASED ON BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES.

- Zinc 1" = 500 p.p.m.
- Copper 1" = 500 p.p.m.
- Lead 1" = 100 p.p.m.

All traverses represent 0 p.p.m.

SCALE

400 0 400 800 1200 FEET

Bureau of Mineral Resources, Geology and Geophysics, Darwin - April 1965

To accompany Record 1965/254

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PLATE 25

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST
MOLYBDENUM, COBALT AND NICKEL PROFILES

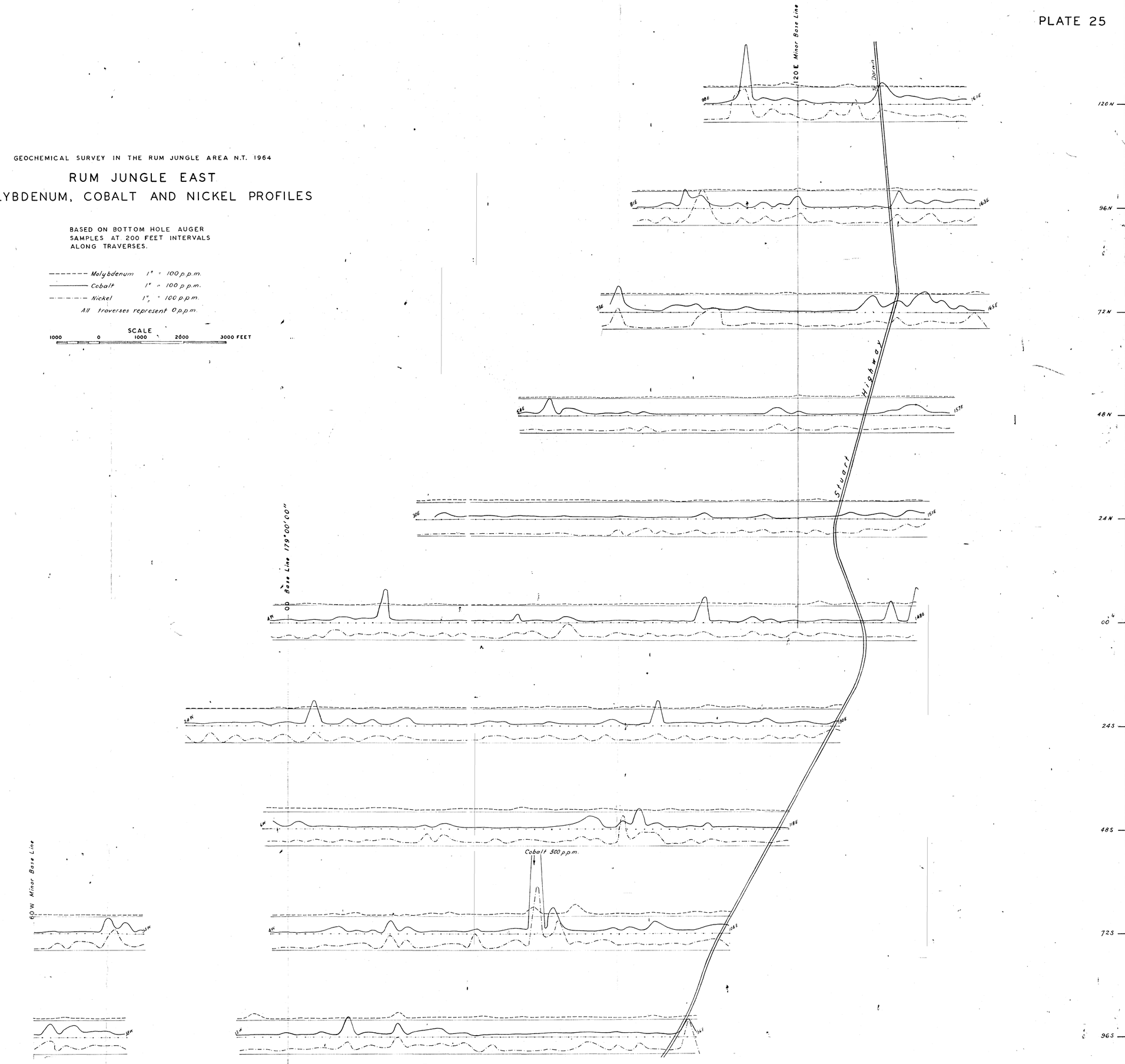
BASED ON BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES.

- Molybdenum 1" = 100 p.p.m.
- Cobalt 1" = 100 p.p.m.
- Nickel 1" = 100 p.p.m.

All traverses represent 0 p.p.m.

SCALE
1000 0 1000 2000 3000 FEET

True North



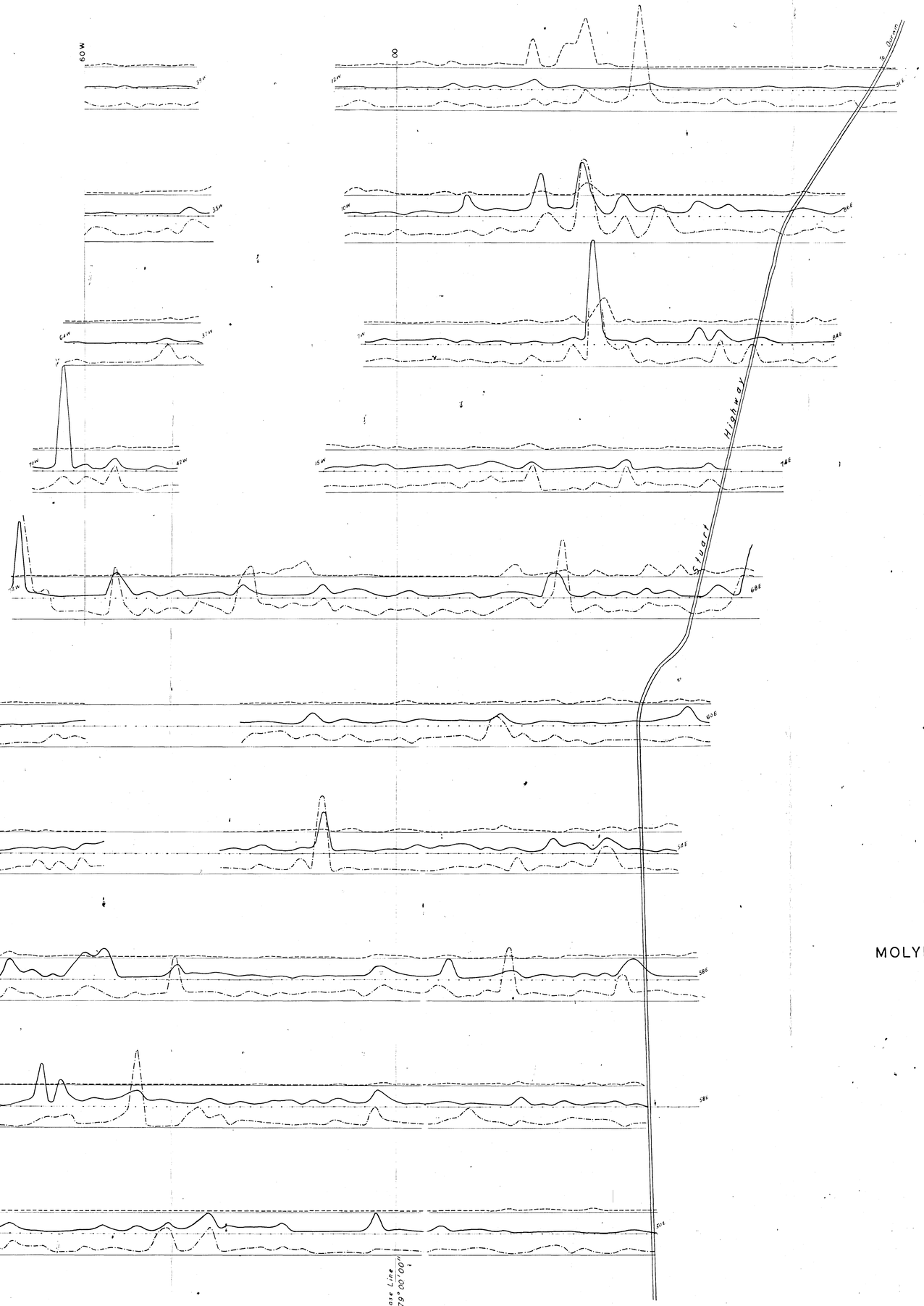
Bureau of Mineral Resources, Geology and Geophysics. Darwin. April 1965

To accompany Record 1965/254

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PLATE 26



965
1205
1445
1685
1925
2165
2405
2645
2885
3125

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST

MOLYBDENUM, COBALT AND NICKEL PROFILES

BASED ON BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES.

---------- *Molybdenum* 1" = 100p.p.m.
———— *Cobalt* 1" = 100p.p.m.
-·-·-·- *Nickel* 1" = 100p.p.m.

All traverses represent 0 p.p.m.

SCALE
1000 0 1000 2000 3000 FEET

Bureau of Mineral Resources, Geology and Geophysics, Darwin, April 1965

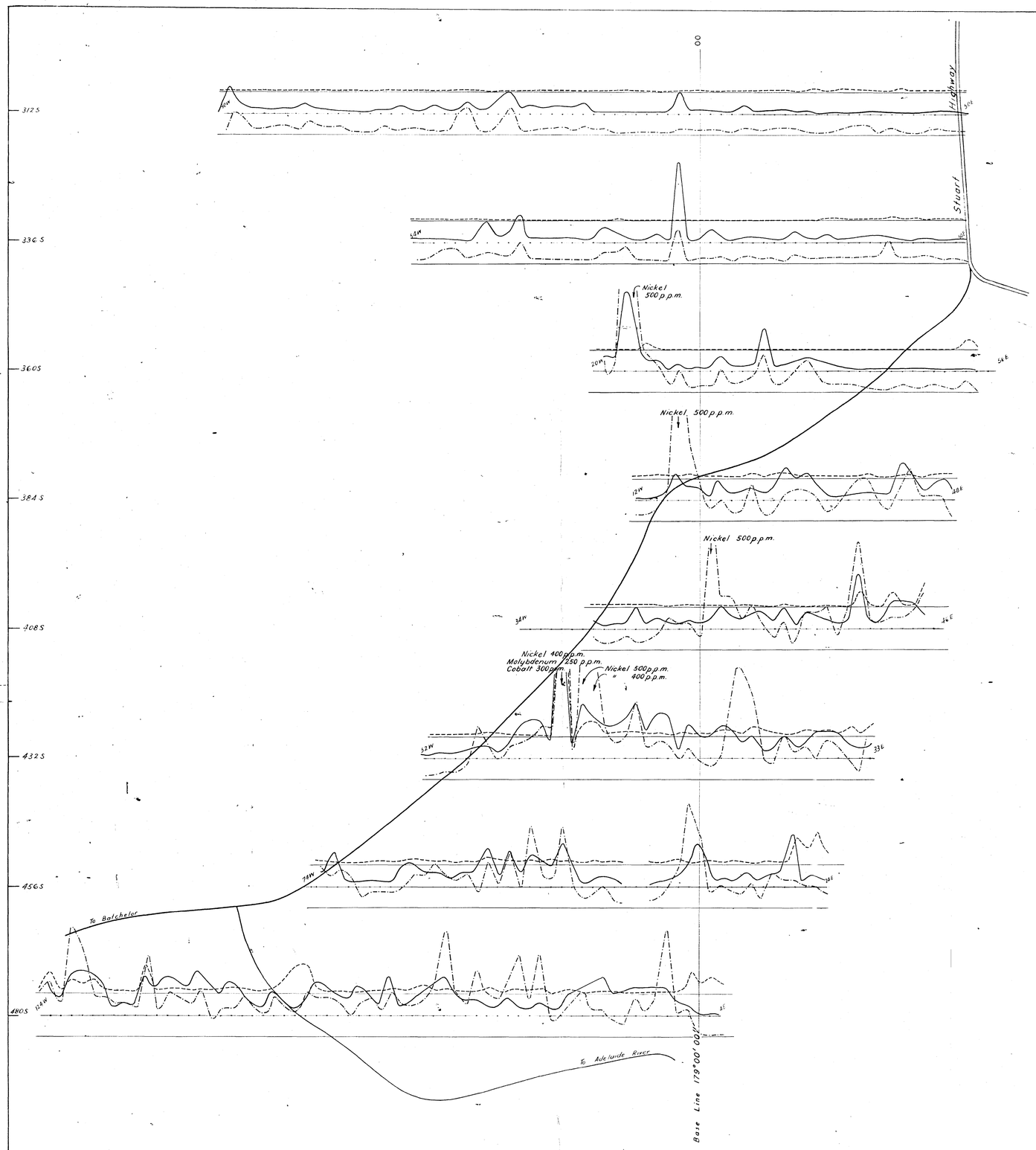
To accompany Record 1965/254

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PLATE 27



True North

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST
MOLYBDENUM, COBALT AND NICKEL PROFILES

BASED ON BOTTOM HOLE AUGER SAMPLES AT 200 FEET INTERVALS ALONG TRAVERSES.

- - - - - - -	Molybdenum	1" = 100 p.p.m.
———	Cobalt	1" = 100 p.p.m.
—·—·—·—	Nickel	1" = 100 p.p.m.

All traverses represent 0 p.p.m.

SCALE
1000 0 1000 2000 3000 FEET

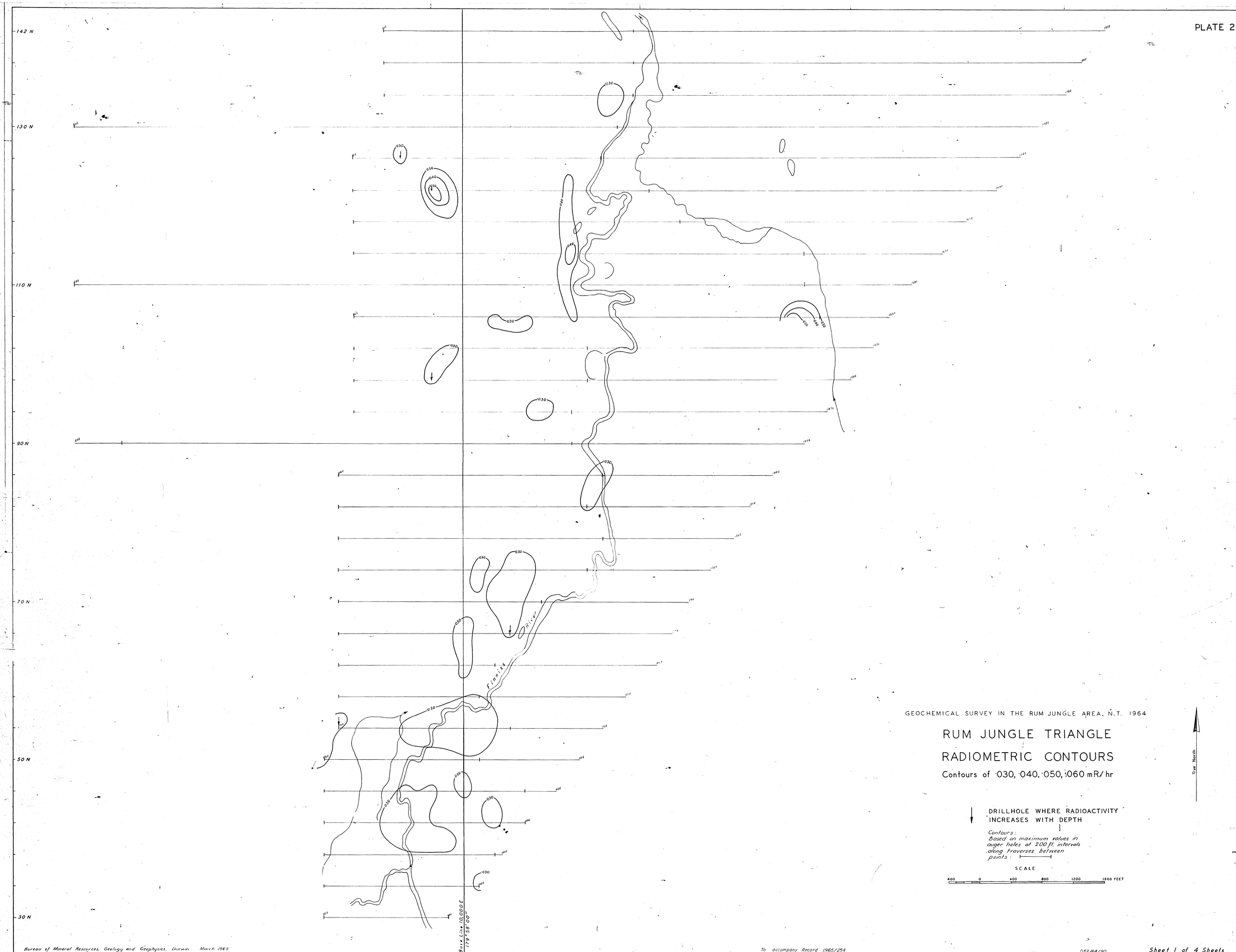
Bureau of Mineral Resources, Geology and Geophysics, Darwin April 1965

To accompany Record 1965/254

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PLATE 28



GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE
RADIOMETRIC CONTOURS

Contours of ·030, ·040, ·050, ·060 mR/hr

DRILLHOLE WHERE RADIOACTIVITY INCREASES WITH DEPTH

Contours: Based on maximum values in auger holes at 200 ft. intervals along traverses between points:

SCALE

400 0 400 800 1200 1600 FEET

True North

Bureau of Mineral Resources, Geology and Geophysics, Darwin March 1965

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PLATE 29

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE

RADIOMETRIC CONTOURS

Contours of ·030, ·040, ·050, ·060 mR/hr

DRILLHOLE WHERE RADIOACTIVITY INCREASES WITH DEPTH

Contours:
Based on maximum values in auger holes at 200 ft intervals along traverses between points

SCALE
400 0 400 800 1200 1600 FEET

True North

250N
230N
210N
190N
170N
150N
142N

Finniss River

Rum Jungle Creek

Base Line 10,000 E.
179° 58' 00"

To accompany Record 1965/254

D52/A4/91

Sheet 2 of 4 Sheets

PLATE 30

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA, N.T. 1964

RUM JUNGLE TRIANGLE
RADIOMETRIC CONTOURS

Contours of ·030, ·040, ·050, ·060 mR/hr

DRILLHOLE WHERE RADIOACTIVITY INCREASES WITH DEPTH.

Contours: Based on maximum values in auger holes at 200 ft. intervals along traverses between points

SCALE

400 0 400 800 1200 1600 FEET

True North

362 N
350 N
330 N
310 N
290 N
270 N
250 N

Finniss River

Base Line
10,000 E
179°58'00"

Bureau of Mineral Resources, Geology and Geophysics, Darwin, March 1965

To accompany Record 1965/254

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H200

PLATE 31

246N

230N

210N

190N

178N

Rum Jungle Creek

North Australian Railway

203·5 N

·030

·040

·050

·060

Bureau of Mineral Resources, Geology and Geophysics, Darwin. March 1963

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE TRIANGLE

RADIOMETRIC CONTOURS

Contours of ·030, ·040, ·050, ·060 mR/hr

DRILLHOLE WHERE RADIOACTIVITY INCREASES WITH DEPTH.

Contours:
Based on maximum values in auger holes at 200 ft intervals along traverses between points

SCALE

400 0 400 800 1200 FEET

True North

Sheet 4 of 4 Sheets

PLATE 32

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST

RADIOMETRIC PROFILES

Based on highest values in each auger hole.

↓ *Auger holes where radioactivity increases with depth.*

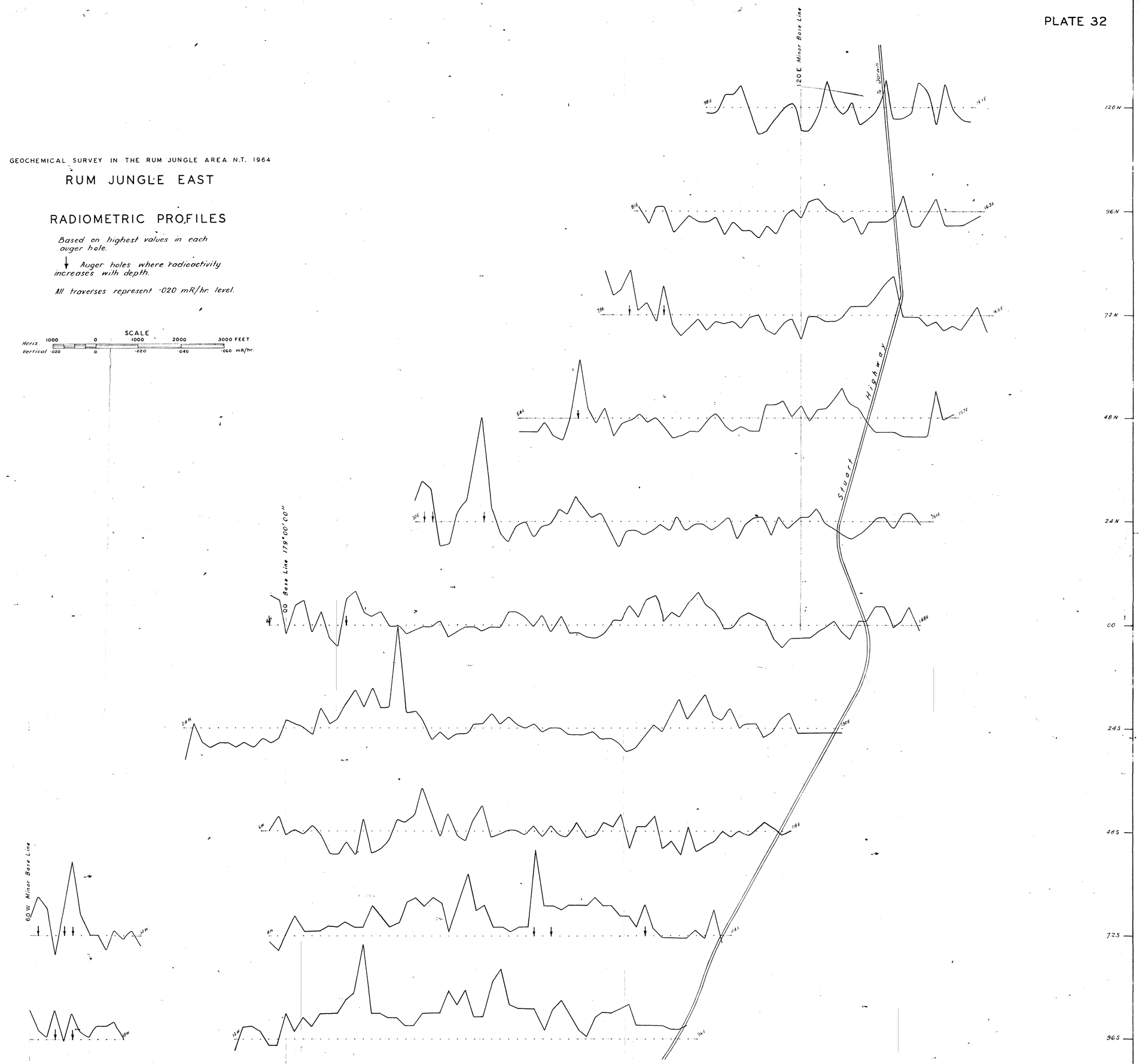
All traverses represent ·020 mR/hr. level.

True North

SCALE

Horiz. 1000 0 1000 2000 3000 FEET

Vertical ·020 0 ·020 ·040 ·060 mR/hr.



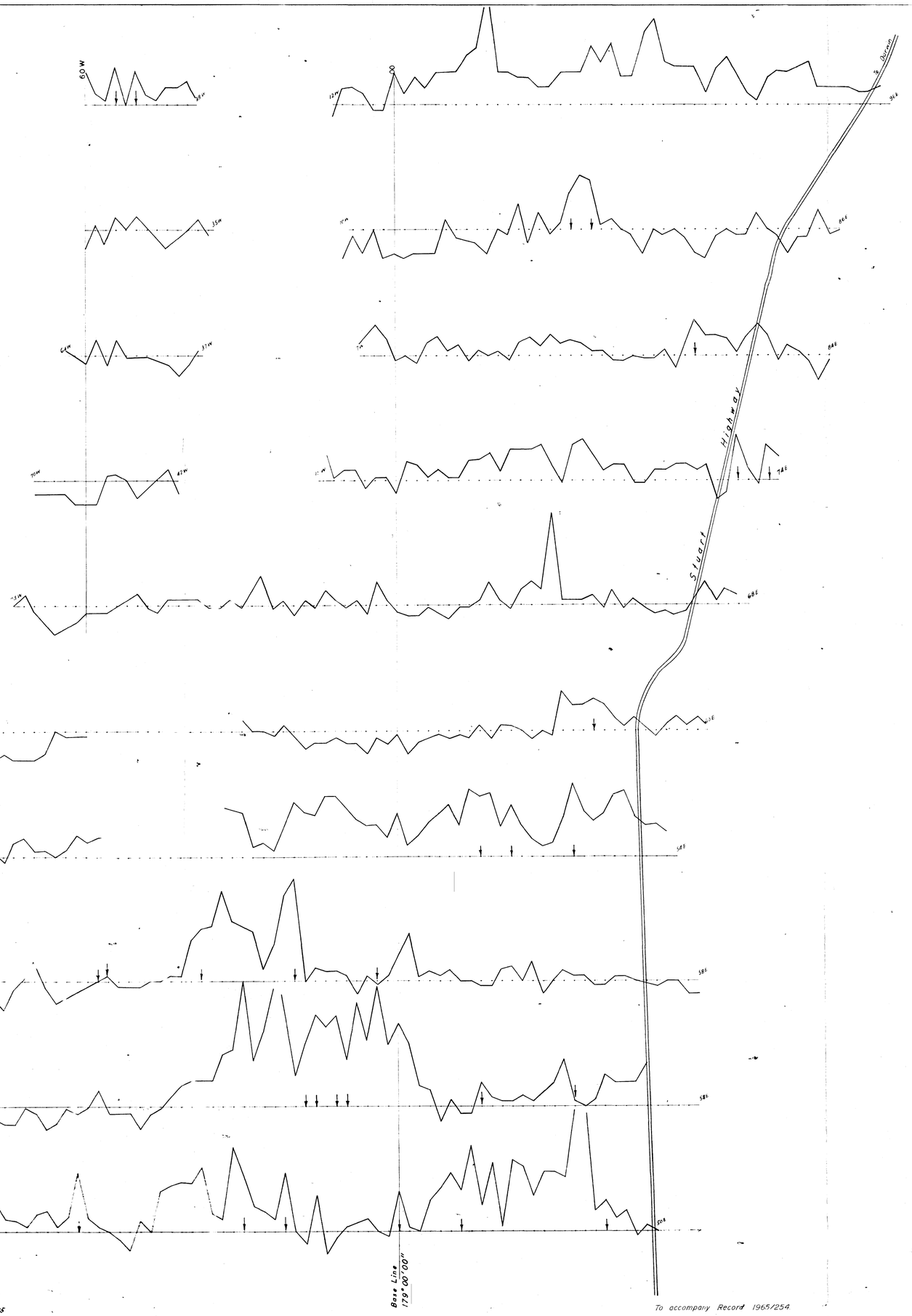
Bureau of Mineral Resources, Geology and Geophysics, Darwin April 1965

To accompany Record 1965/254

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HZ02

PLATE 33





9650
12050
14450
16850
19250
21650
24050
26450
28850
31250

GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST

RADIOMETRIC PROFILES

Based on highest values in each auger hole.

↓ *Auger hole where radioactivity increases with depth.*

All traverses represent ·020 mR/hr. level.

SCALE

Horiz.	1000	0	1000	2000	3000 FEET
Vertical	·020	0	·020	·040	·060 mR/hr.

Bureau of Mineral Resources, Geology and Geophysics, Darwin. April 1965

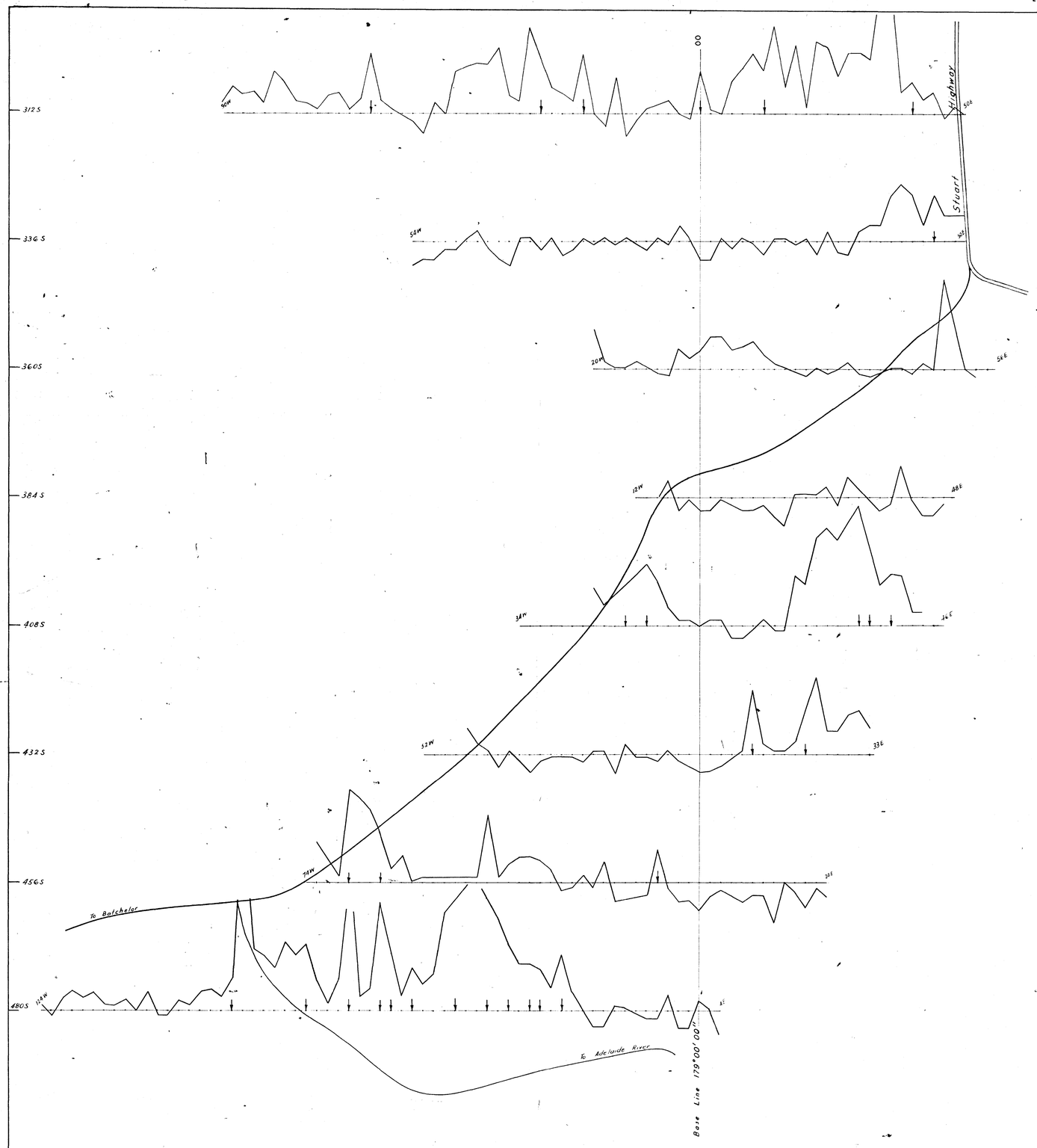
To accompany Record 1965/254

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PLATE 34





GEOCHEMICAL SURVEY IN THE RUM JUNGLE AREA N.T. 1964

RUM JUNGLE EAST

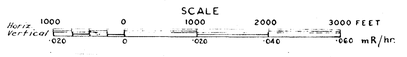
RADIOMETRIC PROFILES

- Based on highest values in each auger hole.

↓ Auger hole where radioactivity increases with depth.

All traverses represent ·020 mR/hr. level.

SCALE



Bureau of Mineral Resources, Geology and Geophysics, Darwin April 1965

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