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GEOPHOTO MINERALS REPORT 1973/15

FINAL REPORT ON
MINERAL EXPLORATION ON
LODE AND ALLUVIAL GOLD PROSPECTS
AT MATHINNA
NORTH EAST TASMANIA, E.L.6/68

Prepared by

GEOPHOTO RESOURCES CONSULTANTS

for

TEXINS DEVELOPMENT PTY. LTD.

W.S. Turner
February, 1974

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APPENDICES

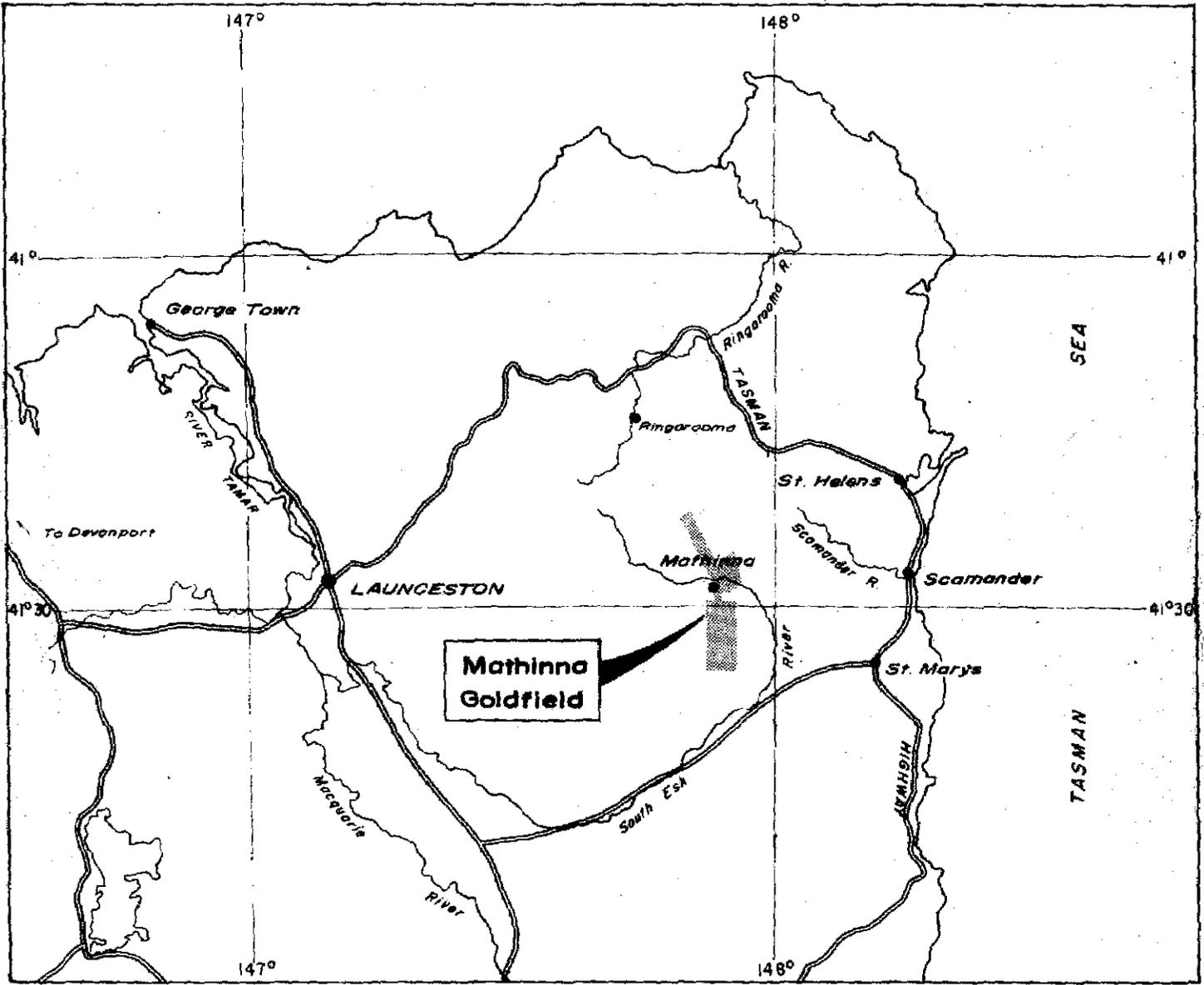
- APPENDIX A List of Geophoto Minerals Reports referred to herein
- APPENDIX B List of Progress and Status Reports referred to herein
- APPENDIX C Geochemical Sheets not included in other reports.
(All backhoe with exception of Dans Rivulet in Status Reports, Series III)
- APPENDIX D Drawings appended which are not included in reports referred to herein

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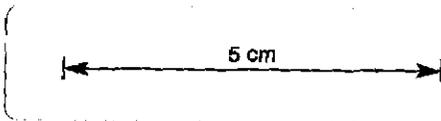
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Scale: 1:1,000,000



Location of Mathinna Area

PURPOSE

A considerable amount of exploration work has been carried out since the end of 1968 on the Mathinna area in search of lode and alluvial gold deposits. This report is a summary of the various phases of the work, and also the conclusions drawn regarding the economic potential of the area.

The reader is referred to the reports listed in Appendix A, for the individual details.

LOCATION AND ACCESS

The location and access are described in some detail in Geophoto Minerals Report 1969/6.

TENURE

The Mathinna area was originally part of Exploration Licence 6/68 of approximately 650 square miles (Plate 1) granted to R.W. Leftwich on behalf of Geophoto Services Ltd., on 23rd August, 1968, and subsequently transferred to Texins Development Pty. Ltd. on 27th October, 1969. Geophoto Resources Consultants acted as technical operators for Texins Development Pty. Ltd. Subsequent reductions to the E.L. on 23rd February, 1970 and 23rd August, 1970 reduced the area in the vicinity of Mathinna Gold Field to a block of approximately 56 sq. km as shown on Drawing No. A218. (Appendix D).

Field work during 1972 indicated some potential for alluvial gold deposits in the Dans Rivulet. On 7th February, 1973 a 22 square mile (35.2 sq km) area, abutting the northern edge of the area then held around Mathinna, was applied for under an S.P.L.

At the request of the Mines Department, the area was later incorporated as part of E.L.6/68, on 4th April, 1973.

REGIONAL EXPLORATION

1. Airborne Gamma Ray Spectrometer Survey

During 1969, the Geophoto airborne gamma-ray spectrometer unit was made available to fly the area held under E.L.6/68. Some of the less significant high recordings located in this survey were in and around Mathinna (Geophoto Minerals Reports 1969/35 and 1970/2). In particular a K^{40} and Bi^{214} high was located in the vicinity of the New Golden Gate Mine. Other high recordings were located nearby. According to Sealy, however (Geophoto Minerals Report 1970/2), no radiometric anomalies were found within the Mathinna area.

It is noted that some problems were met with in the tracking of the flight lines in this area, and accurate locations of high recordings are therefore subject to some doubt.

2. Regional Stream Sediment Survey

The stream sediment survey of the area held under E.L.6/68 was marked by an enormous variation in sample point density. The Tower Hill-Mathinna-Dans Rivulet zone of gold mineralisation was inadequately sampled. From this zone only 21 samples were collected, ten of these covering the 56 sq km area eventually held as part of E.L.6/68 after 23rd August, 1970 reduction, as shown on Dwg. A218 (Geophoto Minerals Reports 1969/6 and 1969/6d).

According to these few analyses, the average values in this area for Cu, Pb, Zn and Ag are 15, 30, 70 and 0 p.p.m. respectively. Some of the samples recorded slightly anomalous values.

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The considerable amount of exploration work completed since the date of the stream sediment survey, however, has indicated that the only mineralisation of significance in the area is that of gold. Base metal sulphides (and As and Ag) occur with the gold in only minor amounts, usually less than 1.5%, and with a considerable proportion of arsenopyrite.

3. Photogeological Study

The first photo mapping by Geophoto of the area held under E.L.6/68 is contained in Geophoto Minerals Report 1969/6 and 1969/6d. A regional geological map (Drg. 1/101) was prepared from both a photogeological study and all the available published and unpublished field data. The photo study, apart from providing a base map, seems to have concentrated on defining potential tin bearing sands and gravels.

4. Geofracture Analysis

A geofracture analysis was completed on the area held under E.L.6/68 through Geophoto's Denver (Colorado, U.S.A.) office, in the latter part of 1969.

Several areas were delineated as favourable for mineralisation; however, none was within the Mathinna area (Geophoto Minerals Reports 1969/37 and 1970/21).

DETAILED EXPLORATION OF LODE GOLD PROSPECTS

1. Geology

Some reconnaissance work by Geophoto in 1969 is reported on in Geophoto Minerals Report 1969/27. In July, 1972 a more intensive program was initiated on the remaining 56 sq km block around Mathinna held under the reduced E.L.6/68.

This work consisted firstly of regional mapping of the whole area (Drg. No. 1/173) at a scale of 1:6,300, and secondly, detailed mapping within this area around the Jubilee-Mountaineer Mines (Drg. No. 1/172) at a scale of 1:750. Previous mapping of these areas can be found in work by Threader (1967), Finucane (1933) and Nye (1933).

In addition, some mapping was done by Geophoto in the vicinity of the City of Hobart and Volunteer - Old Boys - Chester Murray Mines (Drg. Nos. A196 and 187, Progress Report 73/11).

2. Geochemistry

The results of the soil sampling on the Jubilee-Mountaineer Grid are contained in Progress Report 73/11, Drg. Nos. A183 and A184. Also in this report are the results for the City of Hobart Grid (Drg. No. A185). Some sampling has also been done along one V.L.F. traverse (Geophoto Minerals Report 1972/16).

Samples were submitted for routine analysis for GRC 1 (Cu, Ni, Co, Pb, Zn, Ag), GRC 3 (As), GRC 9 (Mn), GRC 8 (Sb) and GRC 113A (Hg).

The usefulness of soil geochemistry in this particular area is summarised in Progress Report 73/11. Manganese and the

As/Cu ratio appear to be the best indicators of gold mineralisation.

It should be noted that arsenopyrite and manganese oxide may be present as sedimentary accumulations within the Mathinna Beds. This possibility was not field checked at the time. However, as these beds represent a reasonably consistent lithology, marked variations in As and Mn content should not be expected. If this is the case, concentrations of both these elements probably represent post depositional accumulations along fault zones containing quartz with minor sulphides and possibly gold mineralisation.

3. Geophysics

(a) Induced Polarisation

An I.P. (frequency domain) survey consisting of 18 set-ups over 9 lines using 30 metre dipoles was carried out by Austral Exploration Services Pty. Ltd., in January, 1973, on the Jubilee-Mountaineer Grid (Progress Report 73/11, Appendix B). Coupled with geological and geochemical data, a few of the I.P. anomalies appear to have some possible significance.

(b) V.L.F.-E.M.

A V.L.F. survey using a Ronka EM16 unit was completed in conjunction with the I.P. survey. Several anomalous zones of questionable significance were indicated.

The method is probably of little use in this particular area, for a number of reasons.

4. Costeaning

Based on geological, geochemical and some geophysical information, two costeans were suggested (Progress Report 73/11) to further investigate the nature of the anomalous areas prior to any possible drilling program. The results of this work can be found in Progress Report 73/14 (Appendix B).

Geological mapping and continuous chip sampling of the costeans failed to locate anything of interest. All gold analyses were below the limit of detection (GRC No. 122, limit of detection 0.1 p.p.m.). The quartz veining uncovered during this work was also disappointing. Mn, Cu and As analyses of the samples, however, were in accordance with the results obtained during the previous soil sampling.

5. Tailings Dam

Some auger sampling was completed over a large tailings dam at the New Golden Gate Mine (Geophoto Minerals Report 1970/42). Some spotty values were recorded.

An estimate by the Tasmanian Mines Department indicated about 420,000 tons of sand, slimes and other residues assaying about 1 dwt. of Au per ton with considerable arsenic.

According to local residents, these tailings have been treated at least once before.

SUMMARY WITH RESPECT TO LODE PROSPECTS

The tightly folded pelitic sediments and metasediments of the Mathinna Group are the host to structurally controlled hydrothermal gold deposits. Two directions of major shearing have been recorded, the better developed set paralleling the fold axes of the area and being more favoured for gold mineralisation.

Any future work aimed at defining mineralised areas should be concentrated on recognising "structural knots" or arcuate fault structures which are most likely to provide the necessary structural control for the larger quartz veins and stockworks, and hopefully also the associated gold mineralisation.

Geochemical and geophysical methods used to date have proved inadequate as exploration tools.

Recorded production for the Mathinna Field from 1880-1932 is 270,895 oz gold, an average grade of 16 dwt per ton. 253,865 ounces of this came from one mine, the New Golden Gate.

This represents an ore body of just over 300,000 tons of approximately A\$80 ore. Considering the nature of the ore, this is a rich body; however, it is rather small.

Some favourable factors of the area include:

Lodes such as those in the New Golden Gate are rich and continue to depths (630m) which are reasonable considering mining technologies at the time of mining.

The Mathinna mineralisation occurs within a 90 km long structural feature which is considered to have controlled the mineralisation.

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The gold occurs as free gold in a quartz gangue, with only minor associated sulphides.

Some unfavourable factors include:

the small size of mineralised areas worked in the past, e.g. New Golden Gate Mine, by far the largest, was only of the order of 300,000 tons;

the erratic nature of the mineralisation;

the lack of broad "stockwork type" mineralised fault zones, and

the lack of response of the mineralisation to geochemical and geophysical methods.

CONSLUSIONS WITH RESPECT TO LODE PROSPECTS

The information available does not indicate that the lode gold mineralisation occurs in quantities sufficient to support anything other than a gouger show.

No further work is recommended.

DETAILED EXPLORATION OF ALLUVIAL GOLD PROSPECTS

1. Black Horse Gully and Long Gully Creek

An outline of the history of alluvial gold mining in the area is contained in Geophoto Minerals Report 1972/16.

The alluvial gold potential of the area was first pointed out in a report by Twelvetrees (1906) in which 600,000 cub. yds of 0.5 dwt Au per cubic yard were indicated from drilling results in Black Horse Gully just west of the Mathinna Township.

A program of backhoe sampling was commenced in March, 1973, involving 104 holes on 7 lines, five of which were on Black Horse Gully. The other two were on adjacent Long Gully Creek to the east of the township (Progress Report 73/2, Appendix B). Results of sampling on lines D and E in Black Horse Gully indicated the possibility of 100,000 cubic yards of grade 0.33 dwt/ton (Progress Report 73/6, Appendix B). More closely spaced sampling was suggested, and so a further 94 holes on five lines were completed in this area.

At this stage it became evident that the gold values were rather erratic and not of the order or consistency indicated by Twelvetrees. The average grades, as pointed out by Cox (Progress Report 73/13, Appendix B) from Lines D and E are greatly influenced by erratic highs, e.g. hole D9, 0.76 dwt/cubic metre; hole E17, 1.5 dwt/cubic metre; hole E19, 0.86 dwt/cubic metre. Consequently no further work was recommended in this area.

2. Dans Rivulet

At about the same time as the extra 94 holes were being completed on Black Horse Gully, a program to test the alluvials in the Dans Rivulet was commenced. This valley is about 6 miles long and from one half to 1 mile wide. The details of this work are contained in Status Reports, Series III (Appendix B).

The wider and deeper flood plains of the Dans Rivulet made it necessary to have some prior knowledge of the bottom channels before initiating a testing program. An S.I.E. R.S.4 12 channel seismograph was used for this purpose. Some operational problems were encountered owing to a malfunction in the unit and consequently only Line A was surveyed.

Seven backhoe holes were then completed on this line and all failed to reach bedrock. Two holes on Line B reached bottom. The fast inflow of water in river flat areas rendered backhoe sampling of little use. It was then decided to use a cable tool rig, although it was recognised that this would also have serious operational limitations. Although sample collection was a problem, bedrock was reached, so that some idea of the location of the oldest channel was obtained. Owing to problems encountered, the testing program was drastically reduced from about 140 holes to 18 holes. The best result came from hole A10, 0.12 dwt/yard. The average depth to bedrock on the flood plain was found to be 16 feet.

Although the sampling was not of a very systematic nature, it did indicate that the gold values were of a grade far too low to be considered encouraging. The density of the mines and prospects surrounding the Dans Rivulet is far less than that surrounding Black Horse Gully and Long Gully Creek. In addition, the alluvials in the Dans Rivulet are much deeper than in Black Horse Gully and Long Gully Creek. As the close sampling in the latter two areas revealed extremely erratic sub-economic values, there was no reason to expect economic values in the Dans Rivulet.

No further work was recommended in this area.

CONCLUSIONS WITH RESPECT TO ALLUVIAL PROSPECTS

According to J.B. McManus (J.B. McManus and Associates Pty. Ltd.), the minimum sized target required for an alluvial gold operation for a small to medium sized company, in this particular setting, with the ground characteristics already observed, is of the order of one million yards of wash carrying in excess of 1.5 dwt gold per yard.

The grades obtained during the testing described above fall far short of this target.

No further work is therefore recommended.

CONCLUSIONS ON EXPLORATION OF THE MATHINNA PORTION OF E.L.6/68

It is considered that the lode and alluvial gold prospects of the Mathinna area, within E.L.6/68, have been adequately tested.

The results do not indicate the possibility that economic gold or other mineralisation exists.

Consequently, no further work is recommended and it is suggested that the Mathinna portion of E.L.6/68 be relinquished.

W.S. TURNER
February, 1974.

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APPENDIX A

- Geophoto Minerals Report 1969/6 Stream Sediment Geochemistry of E.L.6/68, Northeast Tasmania to July 31st, 1969, J.H. Rattigan.
- 1969/6D Mathinna-Avenue River Area, E.L.6/68, Northeast Tasmania, J.H. Rattigan.
- 1969/27 An Appraisal of the Goldfields of North Eastern Tasmania, I.D. Neuss.
- 1969/35 Gamma Ray Spectrometer Survey of Northeast Tasmania, Denver-Dallas Offices of Geophoto Services Inc.
- 1969/37 Digital Fracture Analysis, E.L.6/68, Northeast Tasmania, October, 1969, J.H. Rattigan.
- 1970/2 Summary Geophysical and Geochemical Data Sheets at 1:100,000 Scale, E.L.6/68, Northeast Tasmania, J.H. Rattigan.
- 1970/21 Memorandum Report on Geofracture Analysis, Blue Tier, Northeast Tasmania, E.L.6/68, G. Thomas, Geophoto Services Inc., Denver.
- 1970/42 Exploration Targets in the Texins Development Permit, E.L.6/68, Northeast Tasmania, as at July 31st, 1970, J.H. Rattigan.
- 1972/16 Progress Report on Mineral Exploration in the Mathinna-Tower Hill Goldfield, E.L.6/68, Northeast Tasmania, to 30th September, 1972, W.S. Turner.

APPENDIX B

LIST OF PROGRESS AND STATUS REPORTS (INCLUDED HEREIN) REFERRED TO HEREIN

Progress Report 73/2 Mathinna Backhoe Sampling, W.S. Turner, 25th April, 1973

Progress Report 73/6 Mathinna Alluvial Prospect, A.O.J. Cox, 29th May, 1973.

Progress Report 73/11* Mathinna Lode Au Prospect, W.S. Turner, 1st August, 1973.

Progress Report 73/13 Report on Alluvial Prospect, Black Horse Gully, Mathinna, A.O.J. Cox, August, 1973.

Progress Report 73/14 Jubilee/Mountaineer Grid, A.C. Johnston, 1973.

Status Report, Series I Status Report on Mathinna Area, W.S. Turner, 23rd March, 1973.

Status Report, Series III Dans Rivulet Alluvial Prospect, Mathinna Area, A.O.J. Cox, September, 1973.

* Appendix A Geochemical Data Sheets

Appendix B Induced Polarization Survey at Jubilee Area - Mathinna

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PROGRESS REPORT 73/2

MATHINNA BACKHOE SAMPLING

W.S. TURNER

25th April, 1973

PART OF APPENDIX B - G.M.R. 1973/15

I. PURPOSE

Backhoe sampling of the alluvials at Mathinna was designed to test:

1. Black Horse Gully - where Twelvetrees (1906) reported that from drilling results about 600,000 cubic yards of $\frac{1}{2}$ dwt Au/cub. yd was indicated.
2. Long Gully Creek - where local residents are presently finding colours. This creek has received sediment from the New Golden Gate and Jubilee Mines areas.

II. SAMPLING

A total of 104 backhoe holes were dug in 7 lines across the two gullies. From these holes 453 channel samples 0.5m long were collected from loosely consolidated sediments. The samples varied in volume from about 100-700 cub. ins depending on the size of the gravel present.

The samples were brought to St. Helens for panning and the concentrate, a volume of about 2 cub. ins, was submitted for G.R.C. 122 analysis.

III. PRESENTATION OF DATA

The locations of the 7 lines of holes are shown on the accompanying 1:6,300 map of the area. The backhoe holes are presented as 7 profiles, which are fairly self explanatory. The theodolite was used to survey in the relative heights and locations of the holes.

IV. SUMMARY

1. In most of the holes it was less than 4m to bedrock and easily reached by the backhoe.

2. The sediments are Quaternary silts and loosely consolidated gravels, in which distinct horizons were identified and mapped.

3. The total surface area of the sediment tested in this program is about 2 million sq. yds. The average depth of alluvium is about 3m, making a total volume of sediment of about 6 million cub. yds. Of this, about one third is gravel. Therefore there are about 2 million cub. yds of sediment likely to contain gold.

4. The location, topography, thin overburden and the definite stratification of the sediment are all favourable factors in an alluvial operation. One unfavourable factor however, is that the slaty bedrock tends to harbour the gold, making it difficult to obtain a clean bottom.

5. Results to date have not been encouraging. Of the 119 assay results received only two samples have been worth over \$1.00 per yard, those being F8-7, 1.746 dwt/yd (\$5.238) and A5-4, 1.68 dwt/yd (\$5.03).

B. Turner
25th April, 1973.

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GEOPHOTO RESOURCES CONSULTANTS

PROGRESS REPORT 73/6

MATHINNA ALLUVIAL PROSPECT

E.L.6/68

A.O.J. COX

29th May, 1973

PART OF APPENDIX B - G.M.R. 1973/15

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P.R.73/6
29th May, 1973.

PROGRESS REPORT ON MATHINNA ALLUVIAL PROSPECT - E.L.6/68

Introduction

Backhoe sampling of alluvial flats at Mathinna has indicated an area of interest in Black Horse Gully. In particular two lines of holes, lines D and E, show gold values. Line E, which runs close to and parallel to the Fingal-Upper Blessington road, indicates an average grade of 0.39dwt/yd over 1,000ft. Line D, 2,400ft south of E, indicates a grade of 0.23dwt/yd over 500ft.

Mineralisation

With few exceptions, economic values of gold are confined to the bottom 0.5 metre sample, which in most holes is composed mainly of clayey gravel, overlying weathered Mathinna Slates. The weathered bedrock was not sampled. Overburden varies in thickness between 1 to 4 metres.

It is probable that the gold has originated from the Yellow Boys vein, which would explain the poor results from lines A, B and C higher up Black Horse Gully. It is possible that the Yellow Boys vein extends beneath the alluvials, a little to the south of Line D.

Potential Yardage

Between lines D and E some 100,000 cu. yds are indicated, of grade 0.33 dwt/ton (present value \$1.32/cu. yd. at A\$80.00/oz). The gold bearing ground appears to widen in extent progressing northwards from line A to line E. There is a possibility of proving another 100,000 cu yds north of line E, giving a total yardage of approximately 250,000 cu yds between lines A, in the south, and the South Esk River in the north.

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This yardage should be viewed in conjunction with potential yardage in the Dans Rivulet.

Recommendations

The Black Horse Gully area is considered interesting enough to warrant further backhoe sampling.

It is suggested that two lines be put in north of Line E at 800ft separation. This would involve 40 backhoe holes.

Should this work prove encouraging a further two lines should be sampled between lines D and E, again at 800ft separation, and one line 600ft south of line D, involving a further 50 backhoe holes.

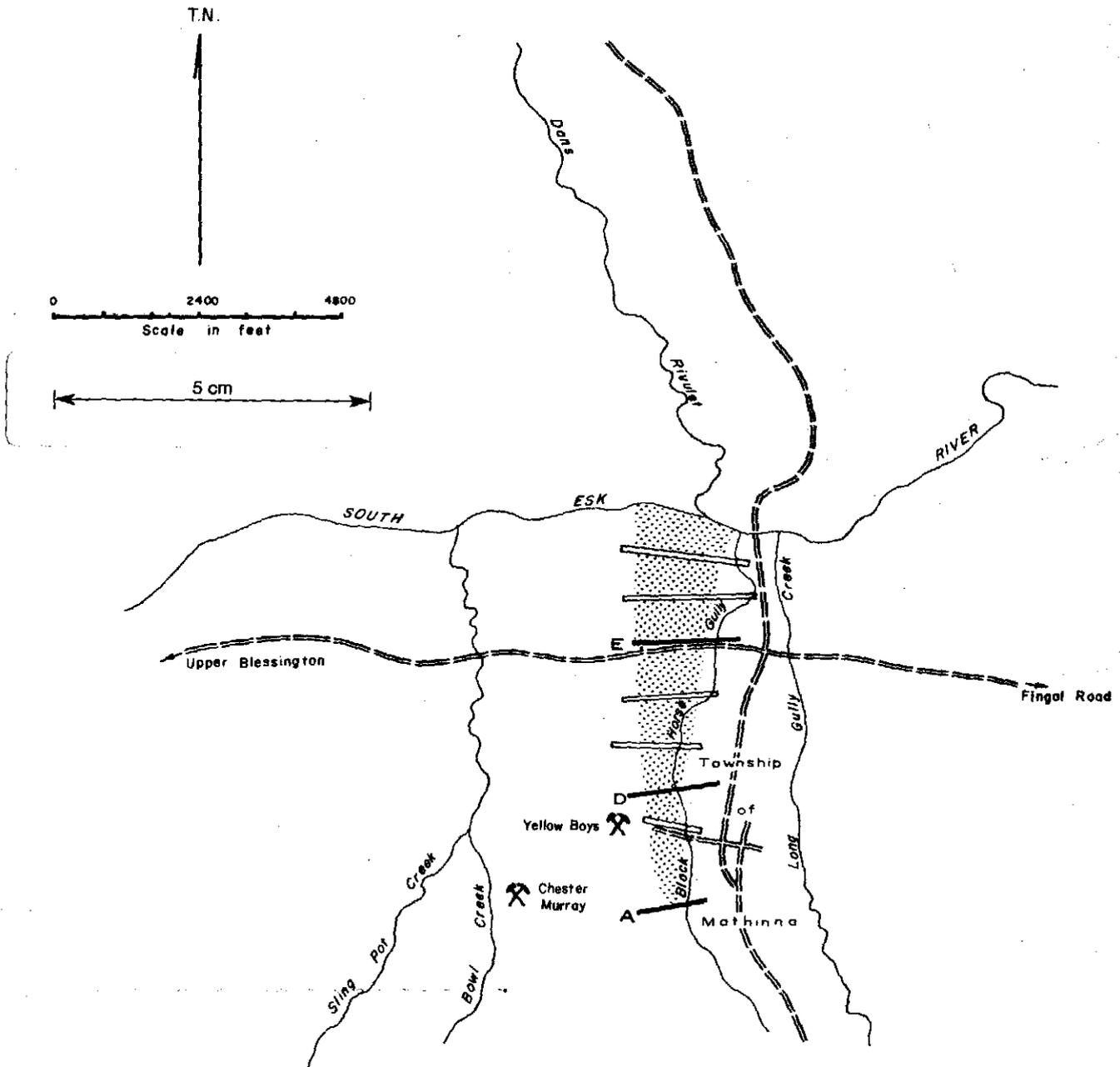
If this work is successful, closer sampling will be required to prove reserves in Black Horse Gully, and sampling should be extended to Bowl Creek and Sling Pot Creek flats, to the west. The Yellow Boys - Chester Murray veins could also be shedding gold values to these creeks.

A.O.J. Cox.

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-  Line of Backhoe Holes
-  Proposed Lines
-  Area of Interest



Sketch of Mathinna Alluvial Prospect

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PROGRESS REPORT 73/11
MATHINNA LODE AU PROSPECT
E.L.6/68 N.E. TAS.

W.S. TURNER
1st August, 1973

PART OF APPENDIX B - G.M.R. 1973/15

INTRODUCTION

The purpose of this report is to:

- I Interpret the geochemical and geophysical results of the Jubilee-Mountaineer Area.
- II Present the preliminary detail geological maps of the City of Hobart and Volunteer-Old Boys-Chester Murray Areas.
- III Interpret the geochemical data from the City of Hobart Area.
- IV Determine geochemical pathfinder elements as an aid to defining drill targets.
- V Reassess the Mathinna Lode Gold Prospect.

I. JUBILEE-MOUNTAINEER AREA

Aim:

To define soil geochemical and geophysical anomalies which support geologic data with the purpose of testing with diamond drilling.

(Au mineralisation at Mathinna is reported to be free gold in a quartz gangue with associated sulphides of Pb, Zn, Cu and As amounting to about 1½% of the ore).

Methods:

- (a) (i) Soil samples were collected with a hand auger from top of bedrock (from 20-60 cms deep). Results on Geochemical Laboratory Report sheets - Appendix A. This method was found to be very time consuming and costly so a cheaper method was sought for followup work on other nearby areas.
- (ii) Consequently a second set of samples was collected from shallow depths (about 2-5 cms) with the view that, since the soil profile is thin and residual, the shallow sampling should reveal results similar to the deeper sampling (Results, Appendix A).
- (iii) The samples were submitted to Brisbane Laboratory for GRC 1, GRC 3, GRC 9 and GRC 113A.
- (iv) All analyses were treated statistically using the Lepeltier method.
- (v) The results are presented on two bewildering anomalies maps, Maps Nos. 1 and 2.
- (b) (i) An I.P. survey consisting of 18 spreads over nine lines using 30m dipoles was carried out. The report by Austral Exploration Services Pty. Ltd. is included as Appendix B.
- (ii) A. V.L.F. survey was also conducted. For map details see Geophoto Minerals Report 1972/16, maps numbers 1/174 and 1/175.

Discussion of Results:

(a) (i) The unusual use of Mn to define soil geochem. anomalies in looking for Au may present some questions. Although the concentration of Mn in this environment may be attributed originally to sedimentary accumulations within the country rocks, in many cases there is a definite enrichment of Mn in zones of brecciation, sometimes amounting to several percent. Also Mn shows the strongest contrast with values of over 0.7%. The anomalies are usually narrow and well defined. Irrespective of the source of the Mn, it now occurs enriched in fault zones.

(ii) Results from both the deep and shallow sampling coincide well except in one particular area on the eastern end of line OON, where it is assumed that excessive soil creep on very steep ground has masked this anomaly.

Therefore shallow sampling is adequate except in those few areas where slopes are in excess of about 25° .

(iii) The results from the soil sampling show a trend for Mn and Hg and to a lesser extent As and Cu which is not coincident with known mineralisation trends outlined on the geologic map (Geophoto Minerals Report 1972/16, Map 1/172). The two trends intersect at an angle of $30-40^{\circ}$.

The more significant part of the geochem. anomaly is located to the east of the Jubilee-Mountaineer Mine area. In this area, topography is steep;

however, the anomaly is narrow and well defined, there being no evidence of significant downhill dispersion. It is therefore assumed that the source of the anomaly is close to the anomalous area outlined on the anomalies maps numbers 1 and 2. There is no geologic or geophysical evidence in this area, however, to support this anomaly.

- (iv) The As/Cu ratios were plotted on the same anomalies map and it was found that the area of the Jubilee-Mountaineer Mine, known to be mineralised could be outlined if contoured at the 75 unit level. Apart from a small copper anomaly in this region, this is the only geochem. anomaly along this established line of mineralisation.

The geochem. anomaly to the east of the Jubilee-Mountaineer Area, previously discussed, does have an associated As/Cu high, and this may tend to upgrade this anomaly.

A simple interpretation of the geochem. data is not possible, until the anomalies are further investigated by trenching or drilling.

As far as the I.P. is concerned, in the first instance it was doubtful that the technique would work, as the sulphide content of the lodes was thought to be only about 1½%. The lower limit of detection of sulphides for I.P. is believed to be about 5%. I.P. seemed to be the best geophysical technique to use.

(iv) cont..

The only significant anomaly on the grid, apart from the large one to the far east, was centred about 15E on 75N, with smaller indications to the south on line 00N. This anomaly is supported by the As/Cu high and also by geologic evidence. It is therefore one of the better targets on the grid.

The geochemical anomaly to the east of the grid is only partly supported by I.P. data. This anomaly requires further investigation.

(vi) V.L.F. work carried out over the area seemed to indicate the techniques not applicable to this area, although several well defined anomalies were found.

(b) (i) It is suggested that two trenches be dug; the first centred at 15E on line 75N and the second about 135E on line 225N, to further investigate the better I.P. and geochemical anomalies.

(ii) Unless extremely encouraging results are forthcoming, no further work should be done.

II. Preliminary geologic maps at 750:1 of the City of Hobart and Volunteer-Old Boys-Chester Murray Areas were made.

This mapping was of a reconnaissance nature only and intended to serve as a quick appraisal of the northward extensions of the down-graded Jubilee-Mountain Area. See Maps 4 and 5. The outcome of this work was negative.

III. Soil geochemical samples (206 in all) were collected from the City of Hobart Area. Treatment of the data was similar to that from the Jubilee-Mountaineer Area and it is presented on Anomalies Map No. 3.

A similar situation to that on the Jubilee-Mountaineer Area exists, in that many small anomalies of questionable significance were found. In one particular area about the City of Hobart Mine, Mn, As, Cu and As/Cu anomalies were roughly coincident. This appears to be the only anomalous area.

IV. The best pathfinder based on the present data seems to be the As/Cu ratio. In the Jubilee-Mountaineer Area it is the only geochemical anomaly which coincides with known mineralization. In the City of Hobart area it coincides with other elements with known mineralization. Other element concentrations may indicate mineralization also, but followup work such as trenching and drilling is necessary to prove or disprove this.

The peculiar nature of the Au lodes lends itself to small and isolated anomalies from the associated sulphides. That these anomalies represent sulphides at depth is without question. That there is Au mineralization with these sulphides is subject to much question.

A series of coincident rock and soil samples was taken at 5m intervals along the road cutting, south of the main creek, away to the east from the Derby Lode, to determine the element variation away from a mineralized vein (see Field Sheet Appendix A). The results are presented in Figure 1. No real trend is obvious.

The original objective of the rock geochemistry program was to better screen the numerous soil geochemical anomalies. This objective has not been achieved. Additional rock/soil sampling may not necessarily prove a relationship and allow the ranking of geochemical soil anomalies.

V. The Mathinna Lode Au prospects have been considerably downgraded.

Geochemical work has indicated this technique to be a method of outlining broad areas for detail work. Geophysical methods have not been very conclusive. V.L.F. does not seem at all applicable to this area. I.P. may have some application; however, further work, as outlined above, is necessary to prove or disprove this. It appears that an area such as this one can be prospected only by drilling. Only further work, as outlined above, can upgrade the area significantly but the prospects are not good. It is therefore recommended that no further work be done unless considerable expenditure for diamond drilling can be approved.

W.S. TURNER

APPENDIX A

		Field Sheet Numbers	Lab. Sheet Numbers
1.	JUBILEE DEEP SOIL GEOCHEMICAL SHEETS	6850 2501 2503-2510	1123/1 1130/1 1139/1 1140/1-9 1155/1-4
2.	JUBILEE SHALLOW SOIL GEOCHEMICAL SHEETS	2534-2538	1267/1-5
3.	J.S. & J.R. GEOCHEMICAL SHEETS	2544	1283/1
4.	CITY OF HOBART GEOCHEMICAL SHEETS	2531-3 2539-2542	1244/1-5 1273/1-6

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Herschel Street, Brisbane 4000
Telephone 27320



Roma Street, Brisbane 4000
Telephone 21 3875

615034

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. DD6850 / PROJECT No. EL.6/68 - MATHINNA
DD2501

LAB. SHEET No. 1123/1 SAMPLE TYPE: SOIL PROF. DATE: 28th September, 1972.

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm	Sb ppm
00 + 195W	72-J-865	10	10	5	15	35	BLD	40	BLD
00 + 180W	72-J-866	5	10	5	10	15	BLD	35	BLD
00 + 165W	72-J-867	30	20	10	40	20	1	75	BLD
00 + 150W	72-J-868	5	10	BLD	10	10	BLD	25	BLD
00 + 135W	72-J-869	10	10	5	30	15	BLD	10	BLD
00 + 120W	72-J-870	5	5	BLD	10	10	BLD	20	BLD
00 + 105W	72-J-871	10	10	BLD	15	20	BLD	30	BLD
00 + 90W	72-J-872	20	10	5	25	35	1	20	BLD
00 + 75W	72-J-873	15	15	5	30	15	BLD	25	BLD
00 + 60W	72-J-874	10	10	5	10	10	BLD	20	BLD
00 + 45W	72-J-875	10	10	5	20	20	1	60	BLD
00 + 30W	72-J-876	25	30	10	35	20	1	40	BLD
00 + 15W	72-J-877	5	10	BLD	15	10	BLD	45	BLD
00 + 00	72-J-878	10	10	5	15	10	BLD	20	BLD
00 + 15E	72-J-879	30	20	10	30	15	1	15	BLD
00 + 30E	72-J-880	10	10	5	20	10	BLD	10	BLD
00 + 45E	72-J-881	10	5	5	15	10	BLD	30	BLD
00 + 60E	72-J-882	30	15	10	15	25	1	50	BLD
00 + 75E	72-J-883	45	35	30	35	95	1	400	BLD
00 + 90E	72-J-884	35	30	30	30	80	1	720	BLD
00 + 150E	72-J-885	45	45	40	35	90	1	1025	BLD
00 + 120E	72-J-886	40	20	25	35	60	1	100	BLD
00 + 135E	72-J-887	20	30	20	25	50	1	1650	BLD
00 + 150E	72-J-888	20	25	10	30	60	1	90	BLD
00 + 165E	72-J-889	20	20	15	30	50	1	520	BLD
00 + 180E	72-J-890	10	10	10	20	30	BLD	45	BLD
00 + 195E	72-J-891	5	10	10	25	15	1	40	BLD
75N + 195W	72-J-892	20	20	20	25	50	1	60	BLD
75N + 180W	72-J-893	15	15	15	15	45	1	100	BLD
75N + 165W	72-J-894	25	20	15	25	45	1	160	BLD
75N + 150W	72-J-895	15	20	20	25	80	1	190	BLD
75N + 135W	72-J-896	20	20	15	25	80	1	110	BLD
75N + 120W	72-J-897	20	20	25	30	80	1	60	BLD
75N + 105W	72-J-898	15	15	20	20	55	1	80	BLD
75N + 90W	72-J-899	20	20	20	35	90	1	100	BLD
75N + 75W	72-J-900	SAMPLE MISSING							
75N + 60W	72-J-901	15	15	20	20	50	1	75	BLD
75N + 45W	72-J-902	10	15	20	15	50	BLD	70	BLD
75N + 30W	72-J-903	20	15	10	25	45	BLD	30	BLD
75N + 15W	72-J-904	15	15	15	20	40	1	70	BLD
75N + 00	72-J-905	40	15	20	25	50	1	50	BLD

METHODS:

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Cu, Ni, Co, Pb, Zn, Ag by G.R.C. No. 1
Sb by G.R.C. No. 8
Mn by G.R.C. No. 9



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Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

615035

006850

FIELD SHEET No. 002501 PROJECT No. EL.6/68 - MATHINNA

LAB. SHEET No. 1130/1 SAMPLE TYPE: SOIL PROF. DATE: 5th October, 1972

SAMPLE No.	LAB. No.	Hg ppb	As ppb						
00 + 180W	72-J-866	<30	700						
00 + 150W	72-J-868	<30	320						
00 + 120W	72-J-870	<30	400						
00 + 90W	72-J-872	<30	780						
00 + 60W	72-J-874	<30	660						
00 + 30W	72-J-876	<30	2240						
00 + 00	72-J-878	<30	480						
00 + 30E	72-J-880	<30	2500						
00 + 60E	72-J-882	<30	3160						
00 + 90E	72-J-884	<30	>6000						
00 + 120E	72-J-886	30	>6000						
00 + 150E	72-J-888	<30	620						
00 + 180E	72-J-890	<30	1760						
75N + 195W	72-J-892	<30	<100						
75N + 165W	72-J-894	30	500						
75N + 135W	72-J-896	50	<100						
75N + 105W	72-J-898	<30	1400						
75N + 60W	72-J-901	<30	2120						
75N + 45W	72-J-902	30	1200						
75N + 15W	72-J-904	30	920						

METHODS: Hg by GRC.NO.113A
As by GRC.NO.103C

REFER LAB SHEET
NO. 1123/1



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Mathinna House
Herschel Street, Brisbane 4000
Telephone 27320



Mathinna House
Roma Street, Brisbane 4000
Telephone 213875

615036

GEOCHEMICAL LABORATORY REPORT

006850
FIELD SHEET No. 002501 PROJECT No. EL.6/68 - MATHINNA
LAB. SHEET No. 1139/1 SAMPLE TYPE: SOIL PROF. DATE: 16th October, 1972

SAMPLE No.	LAB. No.	As ppm							
00 + 90E	72-J-884	25							
00 + 120E	72-J-886	15							

METHODS: As by G.R.C. NO.3 REFER LAB SHEET NO. 1130/1



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Milrequin House
Herschel Street, Brisbane 4000
Telephone 27320



Roma Street, Brisbane 4000
Telephone 21 3375

615037

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 002503 PROJECT No.: EL.6/68 - MATHINNA JUBILEE

LAB. SHEET No.: 1140/1 SAMPLE TYPE: SOIL PROF. DATE: 16th October, 1972

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm	As ppm
75N + 15E	72-J-1054	35	15	15	25	50	1	35	<15
30E	72-J-1055	15	5	10	25	10	BLD	20	<15
45E	72-J-1056	20	10	5	20	10	1	15	15
60E	72-J-1057	30	10	5	30	15	BLD	25	<15
75E	72-J-1058	15	5	BLD	10	20	BLD	20	25
90E	72-J-1059	35	10	10	25	35	1	25	25
105E	72-J-1060	50	20	15	25	55	1	135	25
120E	72-J-1061	50	20	15	30	75	BLD	110	30
135E	72-J-1062	40	20	10	25	70	BLD	230	30
150E	72-J-1063	60	45	50	45	110	1	1100	25
165E	72-J-1064	35	30	30	25	90	BLD	900	25
180E	72-J-1065	20	20	20	20	60	1	370	15
195E	72-J-1066	20	15	10	25	45	1	105	15
150N + 195W	72-J-1067	20	10	10	25	30	1	55	<15
180W	72-J-1068	15	15	10	15	50	1	55	<15
165W	72-J-1069	15	20	10	25	50	1	80	25
150W	72-J-1070	25	35	20	25	70	1	240	30
135W	72-J-1071	20	30	30	20	80	1	100	15
120W	72-J-1072	10	10	10	20	35	BLD	140	25
105W	72-J-1073	20	20	30	25	80	BLD	505	<15
90W	72-J-1074	15	15	20	20	55	1	60	30
75W	72-J-1075	10	10	10	25	40	1	135	30
60W	72-J-1076	20	20	15	20	60	1	60	25
45W	72-J-1077	20	20	15	20	50	1	80	25
30W	72-J-1078	30	35	20	25	80	1	95	25
15W	72-J-1079	10	20	15	15	50	1	80	25
150N + 00	72-J-1080	20	15	10	15	60	1	35	15
15E	72-J-1081	25	20	10	25	60	1	30	25
30E	72-J-1082	15	10	10	15	30	BLD	30	15
45E	72-J-1083	15	10	5	20	30	BLD	25	15
60E	72-J-1084	20	15	15	15	45	BLD	45	25
75E	72-J-1085	25	10	10	20	30	1	80	30
90E	72-J-1086	40	20	50	30	85	1	265	40
105E	72-J-1087	35	20	20	30	75	1	40	40
120E	72-J-1088	40	25	25	25	80	1	60	40
135E	72-J-1089	20	20	15	25	50	1	205	30
150E	72-J-1090	40	90	75	35	200	1	7100	60
165E	72-J-1091	30	30	20	25	80	1	130	50
180E	72-J-1092	20	20	10	30	50	1	900	50
195E	72-J-1093	10	10	10	15	45	BLD	100	15

METHODS: Cu, Ni, Co, Pb, Zn, Ag by G.R.C. NO. 1
Mn by G.R.C. NO. 9 Sb by G.R.C. NO. 8
As by G.R.C. NO. 3
BLD = Below limit of detection.



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Herschel Street, Brisbane 4000
Telephone 27320

Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

615038

FIELD SHEET No. 002503 PROJECT No. EL.6/68 - MATHINNA JUBILEE

LAB. SHEET No. 1140/2 SAMPLE TYPE: SOIL PROF. DATE: 16th October, 1972

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm	As ppm
225N + 195W	72-J-1094	30	25	30	35	90	1	70	15
180W		SAMPLE MISSING							
165W	72-J-1095	25	20	20	20	70	BLD	70	15
150W	72-J-1096	30	30	20	20	80	BLD	55	25
135W	72-J-1097	20	20	20	15	70	BLD	80	25
120W	72-J-1098	15	20	20	20	65	1	110	25
105W	72-J-1099	15	20	15	15	65	1	60	15
90W	72-J-1100	15	15	10	10	60	BLD	35	15
75W	72-J-1101	25	25	25	25	80	1	40	25
60W	72-J-1102	30	15	20	25	60	1	35	30
45W	72-J-1103	10	10	15	20	40	BLD	20	15
30W	72-J-1104	45	30	40	45	130	1	35	15
15W	72-J-1105	40	50	70	35	135	1	90	25
225N + 00	72-J-1106	60	40	35	35	140	1	60	30
15E	72-J-1107	20	20	15	20	70	1	80	25
30E	72-J-1108	20	20	15	20	60	BLD	105	25
45E	72-J-1109	20	20	10	25	55	1	85	15
60E	72-J-1110	55	50	40	40	115	2	70	40
75E	72-J-1111	35	30	30	35	80	1	330	30
90E	72-J-1112	35	25	20	25	70	1	110	30
105E	72-J-1113	30	25	15	25	65	1	230	30
120E	72-J-1114	35	30	20	25	80	1	420	25
135E	72-J-1115	40	40	30	45	80	1	2500	40
150E	72-J-1116	50	25	20	25	80	1	480	25
165E	72-J-1117	30	20	10	25	55	1	225	25
180A	72-J-1118	40	30	35	25	100	1	200	25
180B	72-J-1119	30	20	15	25	60	1	180	25
195E	72-J-1120	30	20	15	20	60	1	420	15
300N + 195W	72-J-1121	30	30	30	25	90	1	50	25
180W	72-J-1122	15	15	20	20	60	1	75	15
165W	72-J-1123	15	10	10	15	50	1	70	25
150W	72-J-1124	15	10	15	15	65	1	65	25
135W	72-J-1125	10	10	10	15	40	1	50	30
120W	72-J-1126	5	10	10	15	35	1	40	25
105W	72-J-1127	15	20	15	25	60	1	50	40
90W	72-J-1128	15	30	15	25	85	1	60	50
75W	72-J-1129	10	10	5	15	25	BLD	55	25
60W	72-J-1130	15	15	10	15	40	BLD	30	30
45W	72-J-1131	10	10	10	10	40	BLD	25	25
30W	72-J-1132	25	25	20	25	90	1	45	50
15W		SAMPLE NOT TAKEN							

METHODS: Cu, Ni, Co, Pb, Zn, Ag by G.R.C. NO. 1

Mn by G.R.C. NO. 9 Sb by G.R.C. NO. 8

As by G.R.C. NO. 3

BLD = Below limit of detection



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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 082503 - PROJECT No. EL.6/68 - MATHINNA JUBILEE
002510

LAB. SHEET No. 1140/3 SAMPLE TYPE: SOIL PROF. DATE: 16th October, 1972

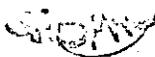
SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm	As ppm
300N + 00		SAMPLE NOT TAKEN							
15E		SAMPLE NOT TAKEN							
30E		SAMPLE NOT TAKEN							
45E	72-J-1133	30	25	15	30	70	BLD	565	30
60E	72-J-1134	30	25	15	30	55	BLD	130	25
75E	72-J-1135	30	20	10	35	60	BLD	210	40
90E	72-J-1136	35	30	20	25	80	1	500	30
105E	72-J-1137	40	40	20	25	75	1	4050	30
110E	72-J-1138	15	20	15	25	50	1	220	30
135E	72-J-1139	25	20	15	35	60	1	1350	25
150E	72-J-1140	20	25	10	20	60	1	240	30
165E	72-J-1141	25	30	15	25	60	1	180	40
180E	72-J-1142	20	20	10	30	45	1	635	30
195E	72-J-1143	20	20	10	20	50	BLD	120	30
375N + 195W	72-J-1144	20	20	25	30	50	BLD	370	25
180W	72-J-1145	20	15	15	25	45	BLD	425	40
165W	72-J-1146	10	10	10	20	80	1	65	25
150W	72-J-1147	10	10	10	15	40	BLD	50	30
135W	72-J-1148	15	5	10	15	30	BLD	40	15
120W	72-J-1149	15	10	15	15	45	1	25	<15
105W	72-J-1150	25	20	15	25	50	1	40	25
90W	72-J-1151	35	40	25	35	80	1	60	65
75W	72-J-1152	10	15	10	20	40	BLD	50	15
60W	72-J-1153	5	10	10	15	30	BLD	45	<15
45W		SAMPLE NOT TAKEN							
30W	72-J-1154	30	40	30	30	90	1	700	25
15W	72-J-1155	50	50	30	30	105	1	460	30
375N + 00	72-J-1156	30	20	15	25	65	BLD	140	<15
15E	72-J-1157	30	20	20	25	65	BLD	145	15
30E	72-J-1158	35	35	20	30	95	BLD	170	15
45E	72-J-1159	30	20	20	25	60	BLD	570	15
60E	72-J-1160	20	20	20	25	70	BLD	115	25
75E	72-J-1161	15	10	10	15	40	BLD	150	25
90E	72-J-1162	20	20	20	15	70	BLD	390	25
105E	72-J-1163	25	20	20	20	65	1	260	15
120E	72-J-1164	15	15	10	20	50	BLD	240	25
135E	72-J-1165	20	20	15	25	60	1	135	25
150E	72-J-1166	10	10	10	15	40	BLD	80	15
165E	72-J-1167	5	10	10	10	30	1	45	15
180E	72-J-1168	10	10	10	10	30	BLD	40	15
195E	72-J-1169	2	5	10	5	20	BLD	25	25

METHODS: Cu, Ni, Co, Pb, Zn, Ag by G.R.C. NO. 1
Mn by G.R.C. NO. 9 Sb by G.R.C. NO. 8
As by G.R.C. NO. 3
BLD = Below limit of detection



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Herschel Street, Brisbane 4000
Telephone 27320Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

615040

FIELD SHEET No. 002503 - PROJECT No. EL.6/68 - MATHINNA JUBILEE

LAB. SHEET No. 002510
1140/4 SAMPLE TYPE. SOIL PROF. DATE. 16th October, 1972

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm	As ppm
450N + 195W		SAMPLE NOT TAKEN							
180W		SAMPLE NOT TAKEN							
165W		SAMPLE NOT TAKEN							
150W	72-J-1170	25	20	20	25	70	1	35	25
135W	72-J-1171	10	15	10	20	40	BLD	75	25
120W	72-J-1172	10	15	10	15	50	BLD	40	15
105W	72-J-1173	10	20	15	25	40	1	240	<15
90W	72-J-1174	35	40	40	35	100	2	535	30
75W		SAMPLE NOT TAKEN							
60W	72-J-1175	25	25	15	25	50	1	350	25
45W	72-J-1176	20	15	10	20	40	1	70	30
30W	72-J-1177	20	10	10	25	30	1	70	40
15W	72-J-1178	15	10	10	15	25	1	70	30
450N + 00	72-J-1179	20	10	10	25	35	1	80	65
15E	72-J-1180	20	10	15	15	50	BLD	65	15
30E	72-J-1181	15	10	10	15	30	BLD	90	30
45E	72-J-1182	10	10	10	15	40	BLD	70	15
60E	72-J-1183	15	15	10	25	50	BLD	120	15
75E	72-J-1184	5	10	10	10	40	BLD	50	15
90E	72-J-1185	35	10	10	15	40	1	65	15
105E	72-J-1186	20	20	20	35	60	1	30	25
120E	72-J-1187	10	10	20	15	40	BLD	50	15
135E	72-J-1188	20	20	20	35	60	1	60	25
150E	72-J-1189	10	10	15	20	40	BLD	30	15
165E	72-J-1190	10	15	10	25	40	1	30	15
180E	72-J-1191	10	20	10	20	60	1	30	15
195E	72-J-1192	10	15	15	15	45	BLD	30	25
525N + 195W	72-J-1193	10	30	10	15	60	BLD	150	25
180W	72-J-1194	10	20	10	15	45	BLD	140	15
165W	72-J-1195	30	40	20	25	100	1	1000	30
150W	72-J-1196	40	60	25	35	120	1	3900	30
135W	72-J-1197	20	25	30	25	65	1	1350	30
120W	72-J-1198	20	30	20	20	70	1	1400	30
105W		SAMPLE NOT TAKEN							
90W		SAMPLE NOT TAKEN							
75W		SAMPLE NOT TAKEN							
60W	72-J-1199	15	15	10	15	45	BLD	80	30
45W	72-J-1200	10	15	10	10	40	BLD	100	50
30W	72-J-1201	25	25	20	15	60	BLD	100	50
15W	72-J-1202	20	20	20	20	60	BLD	70	50

METHODS: Cu, Ni, Co, Pb, Zn, Ag by G.R.C. NO. 1
Mn by G.R.C. NO. 9
As by G.R.C. NO. 3 Sb by G.R.C. NO. 8
BLD = Below limit of detection



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Herschel Street, Brisbane 4000
Telephone 2 7320

Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT 615041

FIELD SHEET No. 082503 - 082510 PROJECT No. EL.6/68 - MATHINNA JUBILEE

LAB. SHEET No. 1140/5 SAMPLE TYPE: SOIL PROF. DATE: 16th October, 1972

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm	As ppm
525N + 00	72-J-1203	20	15	15	15	55	BLD	55	15
15E	72-J-1204	15	10	10	15	40	BLD	55	25
30E	72-J-1205	20	10	10	15	50	BLD	40	25
45E	72-J-1206	20	15	15	25	70	BLD	50	15
60E	72-J-1207	30	20	20	25	80	1	55	25
75E	72-J-1208	20	20	25	25	70	1	100	25
90E	72-J-1209	10	10	15	15	60	1	30	15
105E	72-J-1210	40	30	30	30	90	1	50	30
120E	72-J-1211	10	20	20	15	65	1	35	15
135E	72-J-1212	15	20	25	20	75	1	40	25
150E	72-J-1213	20	25	30	25	85	1	40	25
165E	72-J-1214	10	10	15	20	40	BLD	40	25
180E	72-J-1215	10	10	15	15	50	BLD	30	25
195E	72-J-1216	10	10	15	15	50	BLD	30	30
600N + 195W	72-J-1237	15	20	15	15	50	1	455	30
180W	72-J-1238	15	15	10	20	50	1	35	30
165W	72-J-1239	10	15	10	20	45	1	75	25
150A	72-J-1240	10	15	10	20	50	BLD	50	30
150B	72-J-1241	10	20	20	20	60	1	65	30
135W	72-J-1242	10	15	15	15	40	BLD	140	30
120W	72-J-1243	25	15	15	35	50	1	40	40
105A	72-J-1244	5	10	10	10	25	BLD	30	15
105B	72-J-1245	10	10	10	15	30	BLD	30	25
90W	72-J-1246	SAMPLE NOT TAKEN							
75W	72-J-1217	SAMPLE MISSING							
60W	72-J-1218	SAMPLE MISSING							
45W	72-J-1219	SAMPLE MISSING							
30W	72-J-1220	SAMPLE MISSING							
15W	72-J-1221	SAMPLE MISSING							
600N + 00	72-J-1222	SAMPLE MISSING							
15E	72-J-1223	20	30	20	25	70	1	30	40
30E	72-J-1224	10	15	15	15	40	1	40	30
45E	72-J-1225	10	15	20	20	40	1	50	25
60E	72-J-1226	10	20	20	20	45	1	90	15
75E	72-J-1227	15	20	15	15	50	1	60	30
90E	72-J-1228	15	25	25	20	60	BLD	50	30
105E	72-J-1229	SAMPLE MISSING							
120E	72-J-1230	10	20	20	15	55	BLD	40	25
135E	72-J-1231	10	15	15	15	45	BLD	50	15
150E	72-J-1232	SAMPLE MISSING							
165E	72-J-1233	10	10	15	10	30	BLD	25	30

METHODS: Cu, Ni, Co, Pb, Zn, Ag by G.R.C. NO. 1

Mn by G.R.C. NO. 9 Sb by G.R.C. NO. 8

As by G.R.C. NO. 3
BLD = Below limit of detection



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Herschel Street, Brisbane 4000
Telephone 27320



Roma Street, Brisbane 4000
Telephone 21 3875

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002503 - PROJECT No. EL. 6/68 - MATHINNA JUBILEE
002510

LAB. SHEET No. 1140/7 SAMPLE TYPE: SOIL PROF. DATE: 16th October, 1972

SAMPLE No.	LAB. No.	Sb ppm							
75N + 15E	72-J-1054	BLD							
45E	72-J-1056	BLD							
75E	72-J-1058	BLD							
105E	72-J-1060	BLD							
135E	72-J-1062	BLD							
165E	72-J-1064	BLD							
195E	72-J-1066	BLD							
150N + 180W	72-J-1068	BLD							
150W	72-J-1070	BLD							
120W	72-J-1072	BLD							
90W	72-J-1074	BLD							
60W	72-J-1076	BLD							
30W	72-J-1078	BLD							
150N + 00	72-J-1080	BLD							
30E	72-J-1082	BLD							
60E	72-J-1084	BLD							
90E	72-J-1086	BLD							
120E	72-J-1088	BLD							
150E	72-J-1090	BLD							
180E	72-J-1092	BLD							
225N + 165W	72-J-1095	BLD							
135W	72-J-1097	BLD							
105W	72-J-1099	BLD							
75W	72-J-1101	BLD							
45W	72-J-1103	BLD							
15W	72-J-1105	BLD							
225N + 15E	72-J-1107	BLD							
45E	72-J-1109	BLD							
75E	72-J-1111	BLD							
105E	72-J-1113	BLD							
135E	72-J-1115	BLD							
165E	72-J-1117	BLD							
180B	72-J-1119	BLD							
300N + 195W	72-J-1121	BLD							
165W	72-J-1123	BLD							
135W	72-J-1125	BLD							
105W	72-J-1127	BLD							
75W	72-J-1129	BLD							
45W	72-J-1131	BLD							
300N + 45E	72-J-1133	BLD							
75E	72-J-1135	BLD							
105E	72-J-1137	BLD							

METHODS:

Sb by G.R.C. NO. 8
BLD = Below limit of detection



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WINDMILL HOUSE
Herschel Street, Brisbane 4000
Telephone 27320



Roma Street, Brisbane 4000
Telephone 213875

GEOCHEMICAL LABORATORY REPORT 615044

FIELD SHEET No.: 002503 - PROJECT No.: EL.6/68 - MATHINNA JUBILEE

002510

LAB. SHEET No.: 1140/8 SAMPLE TYPE: SOIL PROF. DATE: 16th October, 1972

SAMPLE No.	LAB. No.	Sb ppm							
300N + 135E	72-J-1139	BLD							
165E	72-J-1141	BLD							
195E	72-J-1143	BLD							
375N + 180W	72-J-1145	BLD							
150W	72-J-1147	BLD							
120W	72-J-1149	BLD							
90W	72-J-1151	BLD							
60W	72-J-1153	BLD							
15W	72-J-1155	BLD							
375N + 15E	72-J-1157	BLD							
45E	72-J-1159	BLD							
75E	72-J-1161	BLD							
105E	72-J-1163	BLD							
135E	72-J-1165	BLD							
165E	72-J-1167	BLD							
195E	72-J-1169	BLD							
450N + 135W	72-J-1171	BLD							
105W	72-J-1173	BLD							
60W	72-J-1175	BLD							
30W	72-J-1177	BLD							
450N + 00	72-J-1179	BLD							
30E	72-J-1181	BLD							
60E	72-J-1183	BLD							
90E	72-J-1185	BLD							
120E	72-J-1187	BLD							
150E	72-J-1189	BLD							
180E	72-J-1191	BLD							
525N + 195W	72-J-1193	BLD							
165W	72-J-1195	BLD							
135W	72-J-1197	BLD							
60W	72-J-1199	BLD							
30W	72-J-1201	BLD							
525N + 00	72-J-1203	BLD							
30E	72-J-1205	BLD							
60E	72-J-1207	BLD							
90E	72-J-1209	BLD							
120E	72-J-1211	BLD							
150E	72-J-1213	BLD							
180E	72-J-1215	BLD							

METHODS:

Sb by G.R.C. NO. 8

BLD = Below limit of detection



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Herschel Street, Brisbane 4000
Telephone 27320



Roma Street, Brisbane 4000
Telephone 213875

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 002503 - PROJECT No.: EL.G/68 - MATHINNA JUBILEE

002510

LAB. SHEET No.: 1140/9 SAMPLE TYPE SOIL PROF. DATE: 16th October, 1972

SAMPLE No.	LAB. No.	Sb ppm							
600N + 195W	72-J-1237	BLD							
165W	72-J-1239	BLD							
150B	72-J-1241	BLD							
120W	72-J-1243	BLD							
105B	72-J-1245	BLD							
600N + 30E	72-J-1224	BLD							
60E	72-J-1226	BLD							
90E	72-J-1228	BLD							
135E	72-J-1231	BLD							
180E	72-J-1234	BLD							
150N + 150E	72-J-1236	BLD							

METHODS: Sb by G.R.C. NO. 8

BLD = Below limit of detection



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GEOCHEMICAL LABORATORY REPORT

002503 -

FIELD SHEET No. 002509 PROJECT No. EL.6/68 - MATHINNA-JUBILEE

LAB. SHEET No. 1155/1 SAMPLE TYPE: SOIL DATE: 9th November, 1972

Refer Lab. Sheet No. 1140 for rest of elements

SAMPLE No.	LAB. No.	Hg ppb						
75N + 15E	72-J-1054	25						
75N + 45E	72-J-1056	25						
75N + 75E	72-J-1058	BLD						
75N + 105E	72-J-1060	25						
75N + 135E	72-J-1062	BLD						
75N + 165E	72-J-1064	25						
75N + 195E	72-J-1066	BLD						
150N + 180W	72-J-1068	BLD						
150N + 150W	72-J-1070	BLD						
150N + 120W	72-J-1072	BLD						
150N + 90W	72-J-1074	BLD						
150N + 60W	72-J-1076	BLD						
150N + 30W	72-J-1078	BLD						
150N + 00	72-J-1080	BLD						
150N + 30E	72-J-1082	BLD						
150N + 60E	72-J-1084	BLD						
150N + 90E	72-J-1086	BLD						
150N + 120E	72-J-1088	BLD						
150N + 150E	72-J-1090	50						
150N + 180E	72-J-1092	30						
225N + 195W	72-J-1094	25						
225N + 150W	72-J-1096	BLD						
225N + 120W	72-J-1098	BLD						
225N + 90W	72-J-1100	BLD						
225N + 60W	72-J-1102	BLD						
225N + 30W	72-J-1104	BLD						
225N + 00	72-J-1106	BLD						
225N + 30E	72-J-1108	BLD						
225N + 60E	72-J-1110	25						
225N + 90E	72-J-1112	BLD						

METHODS: Hg by G.R.C. NO. 113A

BLD = Below limit of detection

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Milleguin House
Herschel Street, Brisbane 4000
Telephone 27320



4th Floor New Court House
Roma Street, Brisbane 4000
Telephone 213875

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GEOCHEMICAL LABORATORY REPORT

002503 -

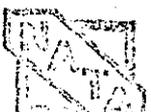
FIELD SHEET No.: 002509 PROJECT No.: EL. 6/GB - MATHINNA-JUBILEE

LAB. SHEET No.: 1155/2 SAMPLE TYPE: SOIL DATE: 9th November, 1972

SAMPLE No.	LAB. No.	Hg ppb						
225N + 120E	72-J-1114	50						
225N + 150E	72-J-1116	30						
225N + 180E	72-J-1118	BLD						
225N + 195E	72-J-1120	40						
300N + 180W	72-J-1122	25						
300N + 150W	72-J-1124	BLD						
300N + 120W	72-J-1126	BLD						
300N + 90W	72-J-1128	BLD						
300N + 60W	72-J-1130	50						
300N + 30W	72-J-1132	40						
300N + 60E	72-J-1134	40						
300N + 90E	72-J-1136	40						
300N + 110E	72-J-1138	65						
300N + 150E	72-J-1140	50						
300N + 180E	72-J-1142	40						
375N + 195W	72-J-1144	115						
375N + 165W	72-J-1146	40						
375N + 135W	72-J-1148	BLD						
375N + 105W	72-J-1150	25						
375N + 75W	72-J-1152	BLD						
375N + 30W	72-J-1154	200						
375N + 00	72-J-1156	40						
375N + 30E	72-J-1158	25						
375N + 60E	72-J-1160	25						
375N + 90E	72-J-1162	25						
375N + 120E	72-J-1164	25						
375N + 150E	72-J-1166	BLD						
375N + 180E	72-J-1168	BLD						
450N + 150W	72-J-1170	BLD						
450N + 120W	72-J-1172	25						

METHODS: Hg by G.R.C. NO. 113A

BLD = Below limit of detection



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J44

Wingman House
Herschel Street, Brisbane 4000
Telephone 2 7320



100 FLOOR, 100 COLINA STREET
Roma Street, Brisbane 4000
Telephone 21 3875

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GEOCHEMICAL LABORATORY REPORT

002503 -

FIELD SHEET No. 002509 PROJECT No. EL.6/68 - MATHINNA-JUBILEE

LAB. SHEET No. 1155/3 SAMPLE TYPE: SOIL DATE: 9th November, 1972

SAMPLE No.	LAB. No.	Hg ppb							
450N + 90W	72-J-1174	35							
450N + 45W	72-J-1176	BLD							
450N + 15W	72-J-1178	25							
450N + 15E	72-J-1180	55							
450N + 45E	72-J-1182	BLD							
450N + 75E	72-J-1184	BLD							
450N + 105E	72-J-1186	BLD							
450N + 135E	72-J-1188	35							
450N + 165E	72-J-1190	BLD							
450N + 195E	72-J-1192	BLD							
525N + 180W	72-J-1194	BLD							
525N + 150W	72-J-1196	60							
525N + 120W	72-J-1198	60							
525N + 45W	72-J-1200	BLD							
525N + 15W	72-J-1202	40							
525N + 15E	72-J-1204	BLD							
525N + 45E	72-J-1206	BLD							
525N + 75E	72-J-1208	25							
525N + 105E	72-J-1210	25							
525N + 135E	72-J-1212	BLD							
525N + 165E	72-J-1214	BLD							
525N + 195E	72-J-1216	BLD							
600N + 180W	72-J-1238	BLD							
600N + 150W	72-J-1240	BLD							
600N + 135W	72-J-1242	BLD							
600N + 105W	72-J-1244	BLD							
600N + 30E	72-J-1224	BLD							
600N + 60E	72-J-1226	BLD							
600N + 90E	72-J-1228	BLD							
600N + 120E	72-J-1230	BLD							

METHODS: Hg by G.R.C. NO. 113A

BLD = Below limit of detection

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ANALYTICAL HOUSE
Herschel Street, Brisbane 4000
Telephone 27320



Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT 615049

002503 -

FIELD SHEET No.: 002509 PROJECT No.: EL.6/68 - MATHINNA-JUBILEE

LAB. SHEET No.: 1155/4 SAMPLE TYPE: SOIL DATE: 9th November, 1972

SAMPLE No.	LAB. No.	Hg ppb							
600N + 165E	72-J-1233	BLD							
600N + 195E	72-J-1235	BLD							

METHODS: Hg by G.R.C. NO. 113A

BLD = Below limit of detection.

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GEOPHOTO RESOURCES CONSULTANTS

Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002534 PROJECT No. EL.6/68 - MATHINNA JUBILEE
LAB. SHEET No. 1267/1 SAMPLE TYPE SOIL PROF. DATE 5th March, 1973

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Mn ppm	Hg ppb	As ppm		
00 + 195W	73-B-949	BLD	20	10	5				
00 + 180W	73-B-950	BLD	15	10	10	BLD	35		
00 + 165W	73-B-951	BLD	15	10	10				
00 + 150W	73-B-952	BLD	15	10	15	BLD	50		
00 + 135W	73-B-953	BLD	15	15	10				
00 + 120W	73-B-954	BLD	5	10	15	BLD	BLD		
00 + 105W	73-B-955	BLD	5	10	10				
00 + 90W	73-B-956	BLD	15	20	10	BLD	40		
00 + 75W	73-B-957	BLD	15	20	10				
00 + 60W	73-B-958	BLD	15	10	5	BLD	50		
00 + 45W	73-B-959	BLD	15	10	10				
00 + 30W	73-B-960	BLD	10	5	2	BLD	50		
00 + 15W	73-B-961	BLD	20	5	2				
00 + 00	73-B-962	BLD	10	10	2	BLD	25		
00 + 15E	73-B-963	BLD	10	5	5				
00 + 30E	73-B-964	BLD	10	5	5	BLD	50		
00 + 45E	73-B-965	BLD	10	10	5				
00 + 60E	73-B-966	BLD	15	10	5	BLD	60		
00 + 75E	73-B-967	BLD	15	10	10				
00 + 90E	73-B-968	BLD	10	5	10	30	60		
00 + 105E	73-B-969	BLD	20	10	10				
00 + 120E	73-B-970	BLD	10	10	5	BLD	40		
00 + 135E	73-B-971	BLD	10	5	5				
00 + 150E	73-B-972	BLD	15	10	20	BLD	55		
00 + 165E	73-B-973	BLD	15	10	5				
00 + 180E	73-B-974	BLD	10	10	10	30	60		
00 + 195E	73-B-975	BLD	15	10	60				
75N + 195W	73-B-976	2	15	15	30	BLD	65		
75N + 180W	73-B-977	15	20	25	60				
75N + 165W	73-B-978	5	20	20	45	BLD	55		
75N + 150W	73-B-979	15	25	35	240				
75N + 135W	73-B-980	15	25	30	90	40	40		
75N + 120W	73-B-981	10	20	35	35				
75N + 105W	73-B-982	15	25	30	75	40	65		
75N + 90W	73-B-983	10	20	35	40				
75N + 75W	73-B-984	10	25	55	175				
75N + 60W	73-B-985	15	20	50	40	BLD	60		
75N + 45W	73-B-986	10	20	45	80	BLD	55		
75N + 30W	73-B-987	10	20	30	50				
75N + 15W	73-B-988	10	35	50	40	40	70		
75N + 00	73-B-989	35	30	40	45	30			
75N + 15E	73-B-990	10	25	20	30		45		
75N + 30E	73-B-991	20	25	15	15				
75N + 45E	73-B-992	10	20	10	20	BLD	70		
75N + 60E	73-B-993	5	20	5	10				

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GEOPHOTO RESOURCES CONSULTANTS

Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 002535 PROJECT No.: EL.6/68 - MATHINNA JUBILEE

LAB. SHEET No.: 1267/2 SAMPLE TYPE: SOIL PROF. DATE: 5th March, 1973

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Mn ppm	Hg ppb	As ppm		
75N + 75E	73-B-994	5	15	10	15	30	50		
75N + 90E	73-B-995	15	20	15	20				
75N + 105E	73-B-996	25	30	30	40	40	55		
75N + 120E	73-B-997	30	30	50	80				
75N + 135E	73-B-998	25	35	55	470	50	80		
75N + 150E	73-B-999	30	35	60	550				
75N + 165E	73-B-1000	30	30	60	600	65	85		
75N + 180E	73-B-1001	30	30	65	300				
75N + 195E	73-B-1002	30	30	70	720	55	90		
150N+ 195W	73-B-1003	10	15	20	35				
150N+ 180W	73-B-1004	10	20	60	30	BLD	60		
150N+ 165W	73-B-1005	20	30	40	30				
150N+ 150W	73-B-1006	15	30	60	315	BLD	85		
150N+ 135W	73-B-1007	30	30	90	205				
150N+ 120W	73-B-1008	20	35	55	175	40	85		
150N+ 105W	73-B-1009	20	30	65	260				
150N+ 90W	73-B-1010	10	20	30	185	50	100		
150N+ 75W	73-B-1011	15	25	30	85				
150N+ 60W	73-B-1012	15	20	40	35	BLD	80		
150N+ 45W	73-B-1013	15	15	45	30				
150N+ 30W	73-B-1014	20	15	55	110	BLD	100		
150N+ 15W	73-B-1015	10	20	60	55				
150N+ 00	73-B-1016	15	20	35	35	BLD	85		
150N+ 15E	73-B-1017	25	20	55	25				
150N+ 30E	73-B-1018	10	15	20	20	BLD	90		
150N+ 45E	73-B-1019	5	615	20	10				
150N+ 60E	73-B-1020	10	20	20	20	BLD	90		
150N+ 75E	73-B-1021	20	40	30	60				
150N+ 90E	73-B-1022	25	30	60	80	BLD	115		
150N+ 105E	73-B-1023	20	20	50	35				
150N+ 120E	73-B-1024	20	20	45	150	BLD	100		
150N+ 135E	73-B-1025	20	20	40	85				
150N+ 150E	73-B-1026	30	30	80	900	30	90		
150N+ 165E	73-B-1027	20	30	65	540				
150N+ 180E	73-B-1028	20	30	50	1050	30	75		
150N+ 195E	73-B-1029	10	15	35	145				
225N+ 195W	73-B-1030	20	25	60	115	BLD	60		
225N+ 180W	73-B-1031	25	20	60	95				
225N+ 165W	73-B-1032	20	25	50	110				
225N+ 150W	73-B-1033	10	20	50	80	BLD	60		
225N+ 135W	73-B-1034	10	25	55	120				
225N+ 120W	73-B-1035	5	20	30	75	BLD	50		
225N+ 105W	73-B-1036	10	20	55	60				
225N+ 90W	73-B-1037	10	15	40	50	BLD	60		
225N+ 75W	73-B-1038	10	20	50	50				

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GEOPHOTO RESOURCES CONSULTANTS

Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

615052

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. DD2536 PROJECT No. EL.6/68 - MATHINNA JUBILEE

LAB. SHEET No. 1267/3 SAMPLE TYPE: SOIL PROF. DATE: 5th March, 1973

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Mn ppm	Hg ppb	As ppm		
225N + 60W	73-B-1039	5	10	25	45	BLD	55		
225N + 45W	73-B-1040	15	20	50	45				
225N + 30W	73-B-1041	15	25	55	50	BLD	60		
225N + 15W	73-B-1042	25	20	90	.75				
225N + 00	73-B-1043	20	20	60	65	BLD	60		
225N + 15E	73-B-1044	15	20	50	105				
225N + 30E	73-B-1045	20	20	65	130	BLD	45		
225N + 45E	73-B-1046	15	20	45	120				
225N + 60E	73-B-1047	20	25	60	125	40	50		
225N + 75E	73-B-1048	30	40	75	300				
225N + 90E	73-B-1049	25	30	70	455	65	50		
225N + 105E	73-B-1050	20	25	70	265				
225N + 120E	73-B-1051	20	30	60	1320	85	80		
225N + 135E	73-B-1052	35	40	80	2450				
225N + 150E	73-B-1053	20	25	60	1500	75	105		
225N + 165E	73-B-1054	15	30	50	2550				
225N + 180E	73-B-1055	20	25	50	650	50	80		
225N + 195E	73-B-1056	30	30	55	445	65	105		
300N + 195W	73-B-1057	10	15	30	80				
300N + 180W	73-B-1058	10	20	45	85	BLD	65		
300N + 165W	73-B-1059	10	30	50	90				
300N + 150W	73-B-1060	5	10	40	75	BLD	75		
300N + 135W	73-B-1061	20	15	30	215				
300N + 120W	73-B-1062	10	10	30	95	BLD	80		
300N + 105W	73-B-1063	2	10	30	105				
300N + 90W	73-B-1064	BLD	10	30	95	BLD	70		
300N + 75W	73-B-1065	10	20	30	140				
300N + 60W	73-B-1066	10	15	40	35	BLD	70		
300N + 45W	73-B-1067	10	15	35	25				
300N + 30W	73-B-1068	20	30	85	55	155	25		
300N + 45E	73-B-1069	25	30	70	850				
300N + 60E	73-B-1070	20	30	50	525	135	110		
300N + 75E	73-B-1071	20	25	55	250				
300N + 90E	73-B-1072	40	30	85	950	75	80		
300N + 105E	73-B-1073	35	40	80	3500				
300N + 120E	73-B-1074	10	25	50	170	30	75		
300N + 135E	73-B-1075	30	40	65	475				
300N + 150E	73-B-1076	20	20	50	270	50	65		
300N + 165E	73-B-1077	15	25	30	380				
300N + 180E	73-B-1078	40	70	90	220	65	75		
300N + 195E	73-B-1079	20	20	50	505				
375N + 195W	73-B-1080	20	30	45	370	65	70		
375N + 180W	73-B-1081	15	20	30	150				
375N + 165W	73-B-1082	10	15	95	60	BLD	55		
375N + 150W	73-B-1083	10	10	25	30				

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GEOPHOTO RESOURCES CONSULTANTS

Millaquin House
Herschel Street, Brisbane 4000
Telephone 2 7320



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CHEMICAL LABORATORY

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 002536/37 PROJECT No.: EL.6/68 - MATHINNA JUBILEE

LAB. SHEET No.: 1267/4 SAMPLE TYPE: SOIL PROF. DATE: 5th March, 1973

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Mn ppm	Hg ppb	As ppm		
375N + 135W	73-B-1084	20	20	40	25	BLD	55		
375N + 120W	73-B-1085	5	15	25	25				
375N + 105W	73-B-1086	10	20	30	25	BLD	70		
375N + 90W	73-B-1087	15	20	40	35				
375N + 75W	73-B-1088	2	10	20	20	BLD	50		
375N + 60W	73-B-1089	5	10	30	45				
375N + 30W	73-B-1090	20	30	65	425	650	120		
375N + 15W	73-B-1091	20	20	60	145				
375N + 00	73-B-1092	20	20	55	190	55	50		
375N + 15E	73-B-1093	20	20	55	125				
375N + 30E	73-B-1094	20	25	70	170	40	BLD		
375N + 45E	73-B-1095	20	30	55	900				
375N + 60E	73-B-1096	10	15	30	90	75	BLD		
375N + 75E	73-B-1097	10	10	20	140				
375N + 90E	73-B-1098	10	15	30	195	40	BLD		
375N + 105E	73-B-1099	20	25	40	335				
375N + 120E	73-B-1100	15	20	45	305	65	BLD		
375N + 135E	73-B-1101	10	20	40	45				
375N + 150E	73-B-1102	10	15	25	35	30	25		
375N + 165E	73-B-1103	2	10	25	30				
375N + 180E	73-B-1104	10	10	20	30	BLD	55		
375N + 195E	73-B-1105	5	15	30	20				
450N + 150W	73-B-1106	10	15	20	25	BLD	40		
450N + 135W	73-B-1107	10	20	30	45				
450N + 120W	73-B-1108	10	20	20	165	65	50		
450N + 105W	73-B-1109	10	30	30	175				
450N + 90W	73-B-1110	10	25	40	65	40	65		
450N + 60W	73-B-1111	20	25	45	125				
450N + 45W	73-B-1112	15	20	30	60	BLD	90		
450N + 30W	73-B-1113	10	20	30	65				
450N + 15W	73-B-1114	10	20	30	40	BLD	55		
450N + 00	73-B-1115	15	20	50	65				
450N + 15E	73-B-1116	10	25	35	40	BLD	30		
450N + 30E	73-B-1117	10	20	40	115				
450N + 45E	73-B-1118	10	15	30	60	BLD	30		
450N + 60E	73-B-1119	10	20	30	65				
450N + 75E	73-B-1120	BLD	15	30	25	BLD	30		
450N + 90E	73-B-1121	15	10	40	45				
450N + 105E	73-B-1122	10	10	40	20	BLD	40		
450N + 120E	73-B-1123	10	10	45	60				
450N + 135E	73-B-1124	10	15	40	20	BLD	BLD		
450N + 150E	73-B-1125	10	10	30	20				
450N + 165E	73-B-1126	2	10	20	20	BLD	BLD		
450N + 180E	73-B-1127	2	10	35	10				
450N + 195E	73-B-1128	15	20	70	35	35	35		

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615054

GEOPHOTO RESOURCES CONSULTANTS
 Millaquin House
 Herschel Street, Brisbane 4000
 Telephone 27320



CHEMICAL LABORATORY
 4th Floor Red Comb House
 Rama Street, Brisbane 4000
 Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 002537/38 PROJECT No.: EL.6/68 - MATHINNA JUBILEE

LAB. SHEET No.: 1267/5 SAMPLE TYPE: SOIL PROF. DATE: 5th March, 1973

SAMPLE No.	LAB. No.	Cu ppm	Pb ppm	Zn ppm	Mn ppm	Hg ppb	As ppm		
525N + 195W	73-B-1129	10	15	70	460				
525N + 180W	73-B-1130	10	15	65	355	35	45		
525N + 165W	73-B-1131	25	20	95	1350				
525N + 150W	73-B-1132	40	30	130	2850	95	65		
525N + 135W	73-B-1133	20	30	90	950				
525N + 120W	73-B-1134	25	35	100	1400	75	50		
525N + 60W	73-B-1135	10	10	40	55				
525N + 45W	73-B-1136	10	20	30	90	65	30		
525N + 30W	73-B-1137	15	20	50	170				
525N + 15W	73-B-1138	20	20	50	105	35	60		
525N + 00	73-B-1139	15	20	50	50				
525N + 15E	73-B-1140	10	10	30	30	BLD	40		
525N + 30E	73-B-1141	10	10	35	25				
525N + 45E	73-B-1142	15	20	50	35	BLD	50		
525N + 60E	73-B-1143	10	20	40	20				
525N + 75E	73-B-1144	10	10	30	20	BLD	40		
525N + 90E	73-B-1145	10	10	35	10				
525N + 105E	73-B-1146	10	10	40	5	BLD	BLD		
525N + 120E	73-B-1147	10	15	45	20				
525N + 135E	73-B-1148	10	10	40	10	BLD	BLD		
525N + 150E	73-B-1149	10	15	50	5				
525N + 165E	73-B-1150	5	10	20	10	BLD	40		
525N + 180E	73-B-1151	2	10	20	5				
525N + 195E	73-B-1152	10	20	30	15	35	35		
600N + 195W	73-B-1153	10	15	40	55				
600N + 180W	73-B-1154	10	20	55	130	35	50		
600N + 165W	73-B-1155	10	20	40	90				
600N + 150W	73-B-1156	5	20	30	35	BLD	60		
600N + 135W	73-B-1157	5	15	30	80	30	55		
600N + 120W	73-B-1158	15	30	40	15	BLD	55		
600N + 15E	73-B-1159	20	30	80	95				
600N + 30E	73-B-1160	10	15	50	230	45	60		
600N + 45E	73-B-1161	10	20	45	220				
600N + 60E	73-B-1162	10	20	40	55	30	50		
600N + 75E	73-B-1163	10	15	30	55				
600N + 90E	73-B-1164	5	15	35	20	BLD	55		
600N + 105E	73-B-1165	10	15	30	10				
600N + 120E	73-B-1166	2	15	30	20	30	55		
600N + 135E	73-B-1167	5	10	40	25				
600N + 150E	73-B-1168	10	15	30	15	BLD	60		
600N + 165E	73-B-1169	10	15	40	20	BLD	40		
600N + 180E	73-B-1170	2	10	20	20				
600N + 195E	73-B-1171	5	10	40	25	BLD	25		



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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 002544 PROJECT No.: EL.6/68 - MATHINNA JUBILEE

LAB. SHEET No.: 1283/1 SAMPLE TYPE: SOIL PROF. DATE: 19th March, 1973
 ROCK

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm	As ppm
JS 1	73-C-700	25	45	20	35	135	1	155	40
JS 2	73-C-701	20	40	25	30	120	1	410	35
JS 3	73-C-702	30	50	35	35	130	BLD	100	30
JS 4	73-C-703	20	30	15	25	85	BLD	185	35
JS 5	73-C-704	15	30	20	25	80	BLD	420	50
JR 1	73-C-705	20	40	20	55	130	BLD	105	30
JR 2	73-C-706	20	35	30	25	115	BLD	850	40
JR 3	73-C-707	20	35	15	70	110	1	160	30
JR 4	73-C-708	15	25	15	60	110	BLD	75	105
JR 5	73-C-709	20	40	25	95	600	1	175	50
		Hg ppb							
JS 1	73-C-700	30							
JS 2	73-C-701	60							
JS 3	73-C-702	BLD							
JS 4	73-C-703	90							
JS 5	73-C-704	30							
JR 1	73-C-705	BLD							
JR 2	73-C-706	BLD							
JR 3	73-C-707	BLD							
JR 4	73-C-708	BLD							
JR 5	73-C-709	BLD							

METHODS: Cu, Ni, Co, Pb, Zn, Ag by G.R.C. NO.1
 Mn by G.R.C. NO. 9
 As by G.R.C. NO. 3

052

W. J. HENNINGSON CONSULTANTS
 Millequin House
 Herschel Street, Brisbane 4000
 Telephone 27320



CHEMICAL LABORATORY
 4th Floor Fed Comb House
 Roma Street, Brisbane 4000
 Telephone 213675 **615056**

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002531 PROJECT No. EL.6/68 - MATRINNA - CITY OF HOBBART

LAB. SHEET No. 1244/1 SAMPLE TYPE: SOIL PROF. DATE: 15th February, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm	As ppm
375W + 00N	73-B-378	5	10	BLD	15	15	1	65	30
375W + 15N	73-B-379	2	10	5	15	20	1	125	30
375W + 30N	73-B-380	10	20	5	20	20	BLD	450	30
375W + 45N	73-B-381	5	15	5	20	20	BLD	145	25
375W + 60N	73-B-382	10	20	5	20	30	BLD	240	85
375W + 75N	73-B-383	10	20	10	20	30	BLD	350	45
375W + 90N	73-B-384	10	20	5	20	30	BLD	120	40
375W + 105N	73-B-385	10	20	5	15	25	BLD	60	45
375W + 120N	73-B-386	2	10	BLD	10	20	BLD	30	45
375W + 135N	73-B-387	5	20	5	15	30	BLD	25	50
375W + 150N	73-B-388	5	25	5	15	45	1	20	45
375W + 165N	73-B-389	10	20	10	20	30	1	15	70
375W + 180N	73-B-390	20	30	15	30	50	1	20	85
375W + 195N	73-B-391	15	25	10	25	45	1	20	65
375W + 210N	73-B-392	15	25	10	25	50	1	15	60
375W + 225N	73-B-393	10	10	5	20	25	BLD	15	55
375W + 240N	73-B-394	10	10	5	15	20	BLD	15	50
375W + 255N	73-B-395	15	15	10	25	30	BLD	20	55
375W + 270N	73-B-396	40	20	10	25	60	1	50	70
375W + 285N	73-B-397	10	10	5	20	20	BLD	25	65
375W + 300N	73-B-398	15	10	10	20	30	1	35	65
375W + 315N	73-B-399	10	10	5	20	20	1	35	50
375W + 330N	73-B-400	20	30	10	30	40	1	20	75
375W + 345N	73-B-401	20	15	10	40	35	1	20	70
375W + 360N	73-B-402	15	15	15	30	30	1	15	65
375W + 375N	73-B-403	10	10	10	15	30	1	20	50
375W + 390N	73-B-404	20	20	15	30	45	1	35	75
375W + 405N	73-B-405	15	20	15	25	40	1	25	70
375W + 420N	73-B-406	15	20	15	25	40	1	30	70
375W + 435N	73-B-407	20	20	15	25	40	1	25	65

METHODS: Cu, Ni, Co, Pb, Zn, Ag by G.R.C. NO. 1

This laboratory is registered by the

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GEOCHEMICAL LABORATORY CONSULTANTS
 Milloquin House
 Herschel Street, Brisbane 4000
 Telephone 27320



CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 21 387 615057

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002531/32 PROJECT No. EL.6/68 - MATHINNA - CITY OF HOBBART

LAB. SHEET No. 1244/2 SAMPLE TYPE: SOIL PROF. DATE: 15th February, 1973

SAMPLE No.	LAB. No.	Cu PPM	Ni PPM	Co PPM	Pb PPM	Zn PPM	Ag PPM	Mn PPM	As PPM
375W + 450N	73-B-408	25	30	20	50	50	1	20	65
375W + 465N	73-B-409	25	30	20	35	60	1	25	60
375W + 480N	73-B-410	20	30	40	30	60	1	45	60
375W + 495N	73-B-411	15	25	15	25	50	1	20	60
375W + 510N	73-B-412	10	15	10	20	30	BLD	20	45
375W + 525N	73-B-413	20	30	20	30	85	1	20	70
375W + 540N	73-B-414	10	15	10	20	5	1	10	60
375W + 555N	73-B-415	10	30	20	30	65	1	15	55
375W + 570N	73-B-416	20	40	35	35	100	1	15	65
375W + 585N	73-B-417	15	30	20	25	70	1	25	70
375W + 600N	73-B-418	10	20	20	25	55	1	20	60
300W + 00N	73-B-419	10	15	10	20	25	1	70	45
300W + 15N	73-B-420	10	10	5	15	15	BLD	50	50
300W + 30N	73-B-421	5	10	5	15	15	BLD	105	40
300W + 45N	73-B-422	15	30	20	30	30	1	150	60
300W + 60N	73-B-423	10	15	5	15	20	BLD	175	70
300W + 75N	73-B-424	10	15	5	15	20	BLD	125	55
300W + 90N	73-B-425	5	10	5	10	10	BLD	165	45
300W + 105N	73-B-426	2	10	BLD	5	5	BLD	120	30
300W + 120N	73-B-427	2	10	5	10	15	BLD	90	35
300W + 135N	73-B-428	10	20	20	15	35	BLD	460	45
300W + 150N	73-B-429	15	25	20	15	50	BLD	95	50
300W + 165N	73-B-430	10	15	5	15	30	BLD	195	40
300W + 180N	73-B-431	10	15	10	10	25	BLD	55	45
300W + 195N	73-B-432	10	10	5	15	20	BLD	75	30
300W + 210N	73-B-433	10	10	10	10	25	BLD	35	35
300W + 225N	73-B-434	10	20	10	15	25	1	125	45
300W + 240N	73-B-435	10	20	10	15	30	1	65	35
300W + 255N	73-B-436	10	25	15	15	35	1	40	45
300W + 270N	73-B-437	10	20	10	15	35	1	60	40

METHODS:

by reference to report by the

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GEOCHEMICAL RESOURCES CONSULTANTS

Milloquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

615058

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002532/33 PROJECT No. EL.6/68 - MATHINNA - CITY OF HOBBART

LAB. SHEET No. 1244/3 SAMPLE TYPE SOIL PROF. DATE 15th February, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm	As ppm
300W + 285N	73-B-438	10	25	10	10	45	1	40	45
300W + 300N	73-B-439	15	20	10	15	65	1	40	60
300W + 315N	73-B-440	15	20	15	15	55	1	55	55
300W + 330N	73-B-441	20	25	20	20	45	1	60	55
300W + 345N	73-B-442	15	20	20	15	40	1	55	60
300W + 360N	73-B-443	20	30	25	20	40	1	185	50
300W + 375N	73-B-444	20	30	25	25	50	1	115	50
300W + 390N	73-B-445	15	30	30	25	40	1	250	45
300W + 405N	73-B-446	20	30	30	20	60	1	60	55
300W + 420N	73-B-447	25	35	35	25	70	1	70	50
300W + 435N	73-B-448	20	35	40	25	120	1	25	70
300W + 450N	73-B-449	15	25	25	30	65	1	60	55
300W + 465N	73-B-450	20	30	30	35	80	1	40	55
300W + 480N	73-B-451	15	30	25	45	50	1	80	50
300W + 495N	73-B-452	10	25	25	20	50	BLD	40	45
300W + 510N	73-B-453	10	25	20	50	50	1	25	50
300W + 525N	73-B-454	10	20	15	30	40	1	35	35
300W + 540N	73-B-455	10	30	20	50	50	1	30	40
300W + 555N	73-B-456	10	20	20	20	40	1	30	45
300W + 570N	73-B-457	10	20	10	20	30	1	40	45
300W + 585N	73-B-458	BLD	5	BLD	10	15	BLD	15	45
300W + 600N	73-B-459	BLD	10	BLD	5	10	BLD	30	25
225W + 480N	73-B-460	65	25	20	25	50	BLD	45	65
225W + 495N	73-B-461	30	40	45	30	110	1	30	70
225W + 510N	73-B-462	15	30	40	25	90	1	50	60
225W + 525N	73-B-463	10	20	25	15	60	BLD	25	55
225W + 540N	73-B-464	20	30	25	15	90	1	30	60
225W + 555N	73-B-465	20	25	25	15	70	1	70	55
225W + 570N	73-B-466	35	45	40	25	100	1	70	60
225W + 585N	73-B-467	20	30	20	25	75	1	80	55

METHODS:

4050

Geotechnical Laboratory
 Millican House
 Herschel Street, Brisbane 4000
 Telephone 27320



CHEMICAL LABORATORY
 4th Floor Red Comb House
 Rouse Street, Brisbane 4000
 Telephone 213675

615059

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 002531-33 PROJECT No.: EL.6/68 - MATHINNA - CITY OF HOBBART

LAB. SHEET No.: 1244/4 SAMPLE TYPE: SOIL PROF. DATE: 15th February, 1973

SAMPLE No.	LAB. No.	Cu PPM	Ni PPM	Co PPM	Pb PPM	Zn PPM	Ag PPM	Mn PPM	As PPM
225W + 600N	73-B-468	10'	25	20	15	60	1	115	50
		Hg ppb							
375W + 00N	73-B-378	BLD							
375W + 30N	73-B-380	BLD							
375W + 60N	73-B-382	BLD							
375W + 90N	73-B-384	BLD							
375W + 120N	73-B-386	BLD							
375W + 150N	73-B-388	BLD							
375W + 180N	73-B-390	BLD							
375W + 210N	73-B-392	BLD							
375W + 240N	73-B-394	BLD							
375W + 270N	73-B-396	BLD							
375W + 300N	73-B-398	BLD							
375W + 330N	73-B-400	BLD							
375W + 360N	73-B-402	BLD							
375W + 390N	73-B-404	BLD							
375W + 420N	73-B-406	BLD							
375W + 450N	73-B-408	BLD							
375W + 480N	73-B-410	BLD							
375W + 510N	73-B-412	BLD							
375W + 540N	73-B-414	BLD							
375W + 570N	73-B-416	BLD							
375W + 600N	73-B-418	BLD							
300W + 15N	73-B-420	BLD							
300W + 45N	73-B-422	BLD							
300W + 75N	73-B-424	BLD							
300W + 105N	73-B-426	BLD							
300W + 135N	73-B-428	BLD							
300W + 165N	73-B-430	BLD							
300W + 195N	73-B-432	BLD							

METHODS:

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lig by G.R.C. NO. 113A

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Malloquin House
Herschel Street, Brisbane 4000
Telephone 27320



GEOCHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

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FIELD SHEET No. DD2531-33 PROJECT No. EL.6/68 - MATHINNA - CITY OF HOBARTLAB. SHEET No. 1244/5 SAMPLE TYPE SOIL PROF. DATE 15th February, 1973

SAMPLE No.	LAB. No.	Hg ppb							
300W + 225N	73-B-434	BLD							
300W + 255N	73-B-436	BLD							
300W + 285N	73-B-438	BLD							
300W + 315N	73-B-440	BLD							
300W + 345N	73-B-442	BLD							
300W + 375N	73-B-444	BLD							
300W + 405N	73-B-446	BLD							
300W + 435N	73-B-448	BLD							
300W + 465N	73-B-450	BLD							
300W + 495N	73-B-452	BLD							
300W + 525N	73-B-454	BLD							
300W + 555N	73-B-456	BLD							
300W + 585N	73-B-458	BLD							
225W + 480N	73-B-460	BLD							
225W + 510N	73-B-462	BLD							
225W + 540N	73-B-464	BLD							
225W + 570N	73-B-466	BLD							
225W + 600N	73-B-468	BLD							

Ian,

It was necessary to dry all samples before sieving. However my man in the preparation room was not informed on the nature of the particular samples and hence drying was carried out at 120°C for 4 hours instead of at 50°C for a longer period. Although on samples prepared under these conditions we had received advice that investigations at the U.S. Geological Survey Laboratories showed mercury results from oven dried samples held the same relationships within a batch as determinations on air dried samples.

The accompanying results would not tend to confirm this finding unless you expected mercury levels in the order of 0-40 ppb.

METHODS: Hg by G.R.C. NO. 113A

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Limit of detection = 50 ppb

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Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



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4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 002539 PROJECT No.: EL.6/68 - MATHINNA CITY OF HOBART

LAB. SHEET No.: 1273/1 SAMPLE TYPE: SOIL PROF. DATE: 12th March, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm
225W + 00N	73-C-328	10	10	5	20	20	1	80
225W + 15N	73-C-329	5	10	5	15	20	1	190
225W + 30N	73-C-330	2	10	5	20	20	1	105
225W + 45N	73-C-331	10	15	10	20	20	1	30
225W + 60N	73-C-332	2	10	5	15	20	1	25
225W + 75N	73-C-333	10	15	10	20	20	1	575
225W + 90N	73-C-334	10	20	10	20	20	BLD	370
225W + 105N	73-C-335	10	20	15	20	20	1	185
225W + 120N	73-C-336	10	20	25	20	30	BLD	175
225W + 135N	73-C-337	15	25	20	20	40	1	270
225W + 150N	73-C-338	2	20	10	15	35	1	345
225W + 165N	73-C-339	10	20	10	15	20	BLD	320
225W + 180N	73-C-340	20	40	30	30	40	1	950
225W + 195N	73-C-341	10	20	20	20	30	1	170
225W + 210N	73-C-342	10	25	20	20	30	1	385
225W + 225N	73-C-343	15	30	30	20	50	1	550
225W + 240N	73-C-344	20	30	40	25	55	1	700
225W + 255N	73-C-345	20	40	35	30	60	1	750
225W + 270N	73-C-346	75	60	80	40	95	1	280
225W + 285N	73-C-347	20	30	25	30	40	BLD	345
225W + 300N	73-C-348	10	30	20	20	45	1	120
225W + 315N	73-C-349	20	40	40	30	70	1	90
225W + 330N	73-C-350	20	35	30	30	60	1	115
225W + 345N	73-C-351	20	30	30	25	80	1	500
225W + 360N	73-C-352	70	50	45	55	105	1	120
225W + 375N	73-C-353	30	30	25	35	60	1	35
225W + 390N	73-C-354	30	20	20	30	50	1	30
225W + 405N	73-C-355	60	40	30	40	100	1	60
225W + 420N	73-C-356	20	20	10	40	40	1	20
225W + 435N	73-C-357	10	10	5	20	20	1	15

METHODS: Cu, Ni, Co, Pb, Zn, Ag by G.R.C. NO.1

Mn by G.R.C. NO. 9

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Milloquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 213875

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 002539/40 PROJECT No.: EL.6/68 - MATHINNA CITY OF HOBART

LAB. SHEET No.: 1273/2 SAMPLE TYPE: SOIL PROF. DATE: 12th March, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm	
225W + 450N	73-C-358	5	10	10	15	20	BLD	20	
225W + 465N	73-C-359	10	10	10	15	40	BLD	35	
150W + 120N	73-C-360	2	10	5	15	10	BLD	40	
150W + 135N	73-C-361	BLD	5	5	10	10	BLD	25	
150W + 150N	73-C-362	20	30	15	40	45	1	475	
150W + 165N	73-C-363	20	30	20	30	50	1	550	
150W + 180N	73-C-364	15	30	35	25	75	1	125	
150W + 195N	73-C-365	20	25	20	30	60	1	35	
150W + 210N	73-C-366	10	20	15	20	40	BLD	140	
150W + 225N	73-C-367	30	15	30	45	60	1	60	
150W + 240N	73-C-368	30	30	30	30	70	1	95	
150W + 255N	73-C-369	25	30	30	30	55	1	135	
150W + 270N	73-C-370	20	30	25	25	50	1	115	
150W + 285N	73-C-371	10	25	25	30	50	BLD	130	
150W + 300N	73-C-372	10	30	20	20	65	1	50	
150W + 315N	73-C-373	20	30	25	25	50	BLD	205	
150W + 330N	73-C-374	20	30	20	25	60	BLD	60	
150W + 345N	73-C-375	10	20	20	20	40	BLD	75	
150W + 360N	73-C-376	10	15	10	20	35	BLD	65	
150W + 375N	73-C-377	10	20	20	20	45	BLD	90	
150W + 390N	73-C-378	30	30	30	160	70	1	400	
150W + 405N	73-C-379	30	35	30	35	100	1	60	
150W + 420N	73-C-380	25	30	20	30	70	1	100	
150W + 435N	73-C-381	20	30	30	35	90	1	40	
150W + 450N	73-C-382	20	25	20	30	70	1	195	
150W + 465N	73-C-383	20	25	30	30	70	1	70	
150W + 480N	73-C-384	15	30	45	30	100	BLD	110	
150W + 495N	73-C-385	25	25	30	30	90	BLD	55	
150W + 510N	73-C-386	25	25	30	35	100	BLD	50	
150W + 525N	73-C-387	15	30	20	25	75	1	30	

METHODS:

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FIELD SHEET No.: 002540/41 PROJECT No.: EL.6/68 - MATHINNA CITY OF HOBART
 LAB. SHEET No.: 1273/3 SAMPLE TYPE: SOIL PROF. DATE: 12th March, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm
150W + 540N	73-C-388	20	30	20	30	80	1	60
150W + 555N	73-C-389	20	40	25	40	80	1	55
150W + 570N	73-C-390	20	30	30	40	85	1	40
150W + 585N	73-C-391	15	25	20	30	65	1	35
150W + 600N	73-C-392	10	25	20	30	50	1	90
75W + 165N	73-C-393	5	10	10	20	25	BLD	60
75W + 180N	73-C-394	5	10	5	20	20	BLD	40
75W + 195N	73-C-395	10	20	20	20	45	BLD	80
75W + 210N	73-C-396	2	15	10	15	30	BLD	70
75W + 225N	73-C-397	5	20	15	20	35	BLD	155
75W + 240N	73-C-398	10	20	15	20	40	1	105
75W + 255N	73-C-399	10	20	15	20	35	1	65
75W + 270N	73-C-400	10	20	20	20	50	1	60
75W + 285N	73-C-401	10	20	10	20	30	1	150
75W + 300N	73-C-402	15	25	20	40	50	1	600
75W + 315N	73-C-403	10	15	10	25	35	1	100
75W + 330N	73-C-404	10	20	10	550	60	1	380
75W + 345N	73-C-405	5	15	5	20	30	1	60
75W + 360N	73-C-406	5	10	10	20	20	BLD	70
75W + 375N	73-C-407	2	10	10	20	20	BLD	85
75W + 390N	73-C-408	5	15	10	30	30	1	50
75W + 420N	73-C-410	5	15	10	20	30	1	40
75W + 435N	73-C-411	10	15	10	20	40	1	40
75W + 450N	73-C-412	10	20	10	20	40	1	35
75W + 465N	73-C-413	10	25	20	30	65	1	2000
75W + 480N	73-C-414	20	20	15	30	70	1	50
75W + 495N	73-C-415	65	35	25	55	120	1	30
75W + 510N	73-C-416	10	20	10	20	60	BLD	50
75W + 525N	73-C-417	20	30	20	30	70	1	205
75W + 540N	73-C-418	45	30	30	25	80	1	190

METHODS:



GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002541/42 PROJECT No. EL.6/68 - MATHINNA CITY OF HOBART

LAB. SHEET No. 1273/4 SAMPLE TYPE: SOIL PROF. DATE: 12th March, 1973

SAMPLE No.	LAB. No.	Cu ppm	Ni ppm	Co ppm	Pb ppm	Zn ppm	Ag ppm	Mn ppm	
75W + 555N	73-C-419	10	20	15	20	50	1	60	
75W + 570N	73-C-420	10	25	20	25	70	1	60	
75W + 585N	73-C-421	5	30	20	20	90	1	90	
75W + 600N	73-C-422	5	20	10	20	50	BLD	60	
00W + 315N	73-C-423	10	10	10	20	30	BLD	65	
00W + 330N	73-C-424	10	10	10	40	45	BLD	85	
00W + 345N	73-C-425	25	15	10	35	40	1	195	
00W + 360N	73-C-426	10	20	15	40	70	1	265	
00W + 375N	73-C-427	10	15	10	50	50	BLD	390	
00W + 390N	73-C-428	25	20	10	75	170	BLD	1025	
00W + 405N	73-C-429	25	20	15	70	130	BLD	1150	
00W + 420N	73-C-430	45	30	30	150	260	1	1725	
00W + 435N	73-C-431	20	20	10	60	190	BLD	390	
00W + 450N	73-C-432	BLD	10	5	15	20	BLD	45	
00W + 465N	73-C-433	2	10	5	20	20	1	40	
00W + 480N	73-C-434	20	40	25	35	80	1	210	
00W + 495N	73-C-435	2	20	10	20	35	1	80	
00W + 510N	73-C-436	5	15	10	20	30	1	55	
00W + 525N	73-C-437	10	30	20	30	70	1	40	
00W + 540N	73-C-438	10	20	10	30	40	1	215	
00W + 555N	73-C-439	10	25	15	25	50	1	55	
00W + 570N	73-C-440	15	20	15	25	50	1	140	
00W + 585N	73-C-441	20	30	20	30	60	1	70	
00W + 600N	73-C-442	15	25	10	30	40	1	85	

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GEOCHEMICAL RESOURCES CONSULTANTS

Milloquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002539/40 PROJECT No. EL.6/68 - MATHINNA CITY OF HOBART

LAB. SHEET No. 1273/5 SAMPLE TYPE. SOIL PROF. DATE. 12th March, 1973

SAMPLE No.	LAB. No.	As ppm	Hg ppb						
225W + 15N	73-C-329	40	150						
225W + 45N	73-C-331	55	BLD						
225W + 75N	73-C-333	35	BLD						
225W + 105N	73-C-335	35	BLD						
225W + 135N	73-C-337	50	BLD						
225W + 165N	73-C-339	50	30						
225W + 195N	73-C-341	45	BLD						
225W + 225N	73-C-343	80	BLD						
225W + 255N	73-C-345	65	30						
225W + 285N	73-C-347	45	BLD						
225W + 315N	73-C-349	65	BLD						
225W + 345N	73-C-351	80	45						
225W + 375N	73-C-353	75	BLD						
225W + 405N	73-C-355	90	BLD						
225W + 435N	73-C-357	45	BLD						
225W + 465N	73-C-359	50	BLD						
150W + 135N	73-C-361	55	BLD						
150W + 165N	73-C-363	55	75						
150W + 195N	73-C-365	70	BLD						
150W + 225N	73-C-367	90	BLD						
150W + 255N	73-C-369	55	BLD						
150W + 285N	73-C-371	55	BLD						
150W + 315N	73-C-373	50	BLD						
150W + 345N	73-C-375	60	BLD						
150W + 375N	73-C-377	95	BLD						
150W + 405N	73-C-379	55	BLD						
150W + 435N	73-C-381	50	BLD						
150W + 465N	73-C-383	55	BLD						
150W + 495N	73-C-385	65	BLD						
150W + 525N	73-C-387	80	BLD						

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As by G.R.C. NO. 3

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Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002540/41/42 PROJECT No. EL.6/68 - MATHINNA CITY OF HOBART

LAB. SHEET No. 1273/6 SAMPLE TYPE: SOIL PROF. DATE: 12th March, 1973

SAMPLE No.	LAB. No.	As ppm	Hg ppb						
150W + 555N	73-C-389	65	BLD						
150W + 585N	73-C-391	45	BLD						
75W + 165N	73-C-393	45	55						
75W + 195N	73-C-395	100	40						
75W + 225N	73-C-397	55	30						
75W + 255N	73-C-399	45	30						
75W + 285N	73-C-401	45	BLD						
75W + 315N	73-C-403	70	40						
75W + 345N	73-C-405	55	110						
75W + 375N	73-C-407	45	BLD						
75W + 420N	73-C-410	50	BLD						
75W + 435N	73-C-411	50	BLD						
75W + 465N	73-C-413	115	95						
75W + 495N	73-C-415	60	BLD						
75W + 525N	73-C-417	55	BLD						
75W + 555N	73-C-419	45	BLD						
75W + 585N	73-C-421	55	BLD						
00W + 315N	73-C-423	50	70						
00W + 345N	73-C-425	85	BLD						
00W + 375N	73-C-427	380	2400						
00W + 405N	73-C-429	1500	5600						
00W + 435N	73-C-431	530	5900						
00W + 465N	73-C-433	50	60						
00W + 495N	73-C-435	50	100						
00W + 525N	73-C-437	80	50						
00W + 555N	73-C-439	60	BLD						
00W + 585N	73-C-441	50	BLD						

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APPENDIX B

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INDUCED POLARIZATION SURVEY

AT

JUBILEE AREA

MATHIUNA

TASMANIA

For

Geophoto Resources Consultants

by

John Webb

January, 1973.

INTRODUCTION

An induced polarization survey was carried out in the Jubilee Area near St. Helens in Tasmania.

Austral supplied a party leader and transmitter operator while Geophoto supplied other staff and the equipment.

Nine lines were covered using 30 metre dipoles. The equipment comprised a Geoscience T 2800 variable frequency transmitter and a R 401 "Geomite" receiver.

The results are discussed firstly line by line, followed by a general discussion and recommendations.

LINE BY LINE DISCUSSIONLine 00N (30 metre dipoles)

Two anomalies have been marked on this line. The first from 75E to 135E is present in all three parameters. It would appear that the source is outcropping or approaching very near to the surface. There is a high centre in Metal Factor and Frequency Effect in the third separation suggesting a continuation to depth.

The second anomaly marked from 15W to 30E is less definite with its centre in Metal Factor in the 3rd and 4th separations. It is not defined in either Resistivity or Frequency Effect.

Line 75N (30 metre dipoles)

Two anomalies have been marked on this line. The first from 165E to 225E is present in all parameters. It is not well defined in

Frequency Effect. There are possibly two sources. One near surface at 180E and the other at depth under 195E. This anomaly could correspond with one on the previous line, but this is doubtful.

The second anomaly is between 45W and 45E and could correspond to an anomaly in the same position on line 00N. Here it is better defined and is present in all three parameters. The source is at depth as the best expressions are in the 3rd and 4th separations.

Line 150N (30 metre dipoles)

Three anomalies have been marked. The first from 135E to 195E is present in all three parameters but is not well defined in any. It would correspond to the eastern anomaly on line 75N. It is possible that the real anomaly is further east.

The second anomaly is centred around 15W and would appear to be the last weak expression of the corresponding anomaly on line 75N.

The third anomaly is between 225W and 105W and is present in all parameters. The source is near surface.

Line 225N (30 metre dipoles)

Three anomalies have been marked. The first is at the eastern end of the line from 225E eastwards. This is most likely associated with the anomaly suggested as being off the eastern end of line 150N. It is present in all parameters but an extension of this line would be necessary to define it properly.

The second anomaly is between 75E and 135E and could correspond with the anomaly between 135E and 195E on line 150N. It is not well defined and could be the last expression of this anomaly.

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The third anomaly is between 165W and 75W. This suggests a near surface source near 105W. It could be a weak expression of the anomaly at the western end of line 150N.

Line 300N (30 metre dipoles)

There are two anomalies on this line. The first is again at the eastern end from 195E eastwards. The centre is certainly beyond the end of the traverse.

The second anomaly is a small near surface expression between 135W and 75W. It is most likely the off end expression of the same anomaly on line 225N.

Line 375N (30 metre dipoles)

Two anomalies have been marked. The eastern one is between 165E and 225E and is at depth. The Frequency Effects suggest that the main centre could still be further east.

The second anomaly is between 105W and 75W and is from a small shallow source.

Line 450N (30 metre dipoles)

Two anomalies have been marked. The eastern anomaly from 195E is still present and again the Frequency Effects suggest the need for an extension of the line.

The second anomaly is not well defined and lies between 45E and 135E. It could be due to two shallow sources near 45E and 135E.

There are two minor near surface centres between 195W and 165W and 135W and 105W. These are not significant.

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Line 525N (30 metre dipoles)

Three anomalies have been marked. The first is again at the eastern end, and could extend beyond the end of the line.

The second is between 75E and 135E. It is shallow and corresponds with an anomaly on line 450N. It is not present in the Frequency Effect although it lies within a wide Frequency Effect zone of higher readings.

The third anomaly is between 225W and 105W. It is not significant.

Line 600N (30 metre dipoles)

Three anomalies are marked. The eastern anomaly is present again and an extension would be necessary to define it.

A weak rather indefinite anomaly has been marked from 75E to 135E.

The third anomaly is from 165W to 105W and is a shallow Resistivity anomaly.

GENERAL DISCUSSION

A strong anomaly in all three parameters exists on all lines either at the extreme eastern end or beyond the limits of the lines. Several lines should be extended to define the centre of this anomaly. Every second line is suggested for an initial examination. If this anomaly represents sulphides, which is highly possible as the Frequency Effects are strong, it is the only anomaly of the survey of any great significance.

The only other anomaly of significance is on line 75N centred below 15E. It has smaller indications on lines 00N and 150N.

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It could be a small sulphide body at medium depth.

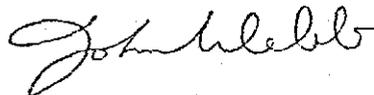
The other anomalies marked and discussed are all small and it is very doubtful that they indicate anything but a mineralised zone with the possible exception of the anomaly at 165W on line 150N. This is indicative of a small near surface source which has doubtful value as a possible orebody.

Recommendations

The anomaly at the eastern end of all lines should be investigated. It is not possible to recommend drilling targets until the survey has been extended.

The anomaly at 15E on line 75N could be worth drilling. A hole 50E depressed 50 degrees to the west would be an initial test.

No further work is recommended on the numerous small anomalies marked and discussed.



John Webb

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A 184	Jubilee-Mountaineer Grid Deep Soil Sampling	2 sheets
A 185	City of Hobart Grid Soil Geochemistry	2 sheets
A 186	City of Hobart Grid Geology	2 sheets
A 187	Volunteer-Old Boys- Chester Murray Grid Geology	2 sheets

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GEOPHOTO RESOURCES CONSULTANTS

PROGRESS REPORT 73/13

ALLUVIAL PROSPECT, BLACK HORSE GULLY

MATHINNA, E.L.6/68

A.O.J. COX

August, 1973

PART OF APPENDIX B - G.M.R. 1973/15

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REPORT ON ALLUVIAL PROSPECT BLACK HORSE GULLY, MATHINNA EL6/68

INTRODUCTION

Attention was brought to this area in a report by Twelvetrees (1906), in which he stated that some 600,000 cu. yds. of 0.5 dwt Au/cu yd, were indicated from drilling results in Black Horse Gully (B.H.G.)

A programme of backhoe hole sampling was commenced in March 1973, involving 104 holes on 7 lines, 5 of which were on B.H.G., the other 2 on adjacent Long Gully, (P.R.73/2B. Turner, April 1973). Results of sampling on lines E and D B.H.G., were considered interesting enough to warrant further sampling in this area. (P.R. 73/6 A.O.J. Cox, May 1973)

METHOD OF SAMPLING

A total of 94 holes were dug on five lines across B.H.G. From these holes 269 channel samples were obtained, varying in length from 30 cms to 80 cms, and in volume from 1600 cc-11,500 cc's depending on variation in lithology. Samples were panned, and the concentrate submitted for G.R.C. 122 analysis.

Where possible, distance between holes was a constant 25 metres. In a very few cases holes were abandoned because of rapid inflow of water and consequent slumping. Line separation is approximately 250 metres in the area of interest in B.H.G.

PRESENTATION

The backhoe holes are presented as profiles, relative elevation having been determined by theodolite. The location of the lines is shown on the accompanying 1:6300 map. For the main area of interest i.e. the mouth of B.H.G (Lines L through D) zones of mineralization are indicated, together with average thickness of sediment, average grade and average depth of overburden.

GEOLOGY

The sediments of B.H.G comprise recent clays, with old gravels, together with intermixtures of the above classes. Depth to bedrock varies between 1 and 4 metres. The recent

sediments overlies Silurian sediments which in this area comprise a zone of sheared and close folded Mathinna Slates. Several of the abandoned mines south of Mathinna, are located in gold bearing quartz veins within this zone of intense folding. B.H.G. drains this zone; however, the location of the gold just above bedrock rather than through the sedimentary piles might indicate that the gold has not undergone much transportation and is in fact derived locally from quartz veins and stringers within the bedrock. Gold found in panning the samples is generally coarse.

The bedrock slates are weathered to a clay for depths varying between a few inches to several feet. The in situ nature of the clay is evident from its colour and relict cleavage in addition to the presence of quartz stringers. Channel samples were taken into only the top few inches of this slate-clay. In hydraulic mining the sediments this slate-clay would cause serious dilution of values, if the gold is in fact derived from a more distant source than the underlying bedrock. In addition, in mining, the slaty nature of the bedrock, as Turner pointed out, would give rise to an irregular work bottom, the gold tending to be trapped in depressions. Indeed this idea might also explain the erratic distribution of values. Backhoe holes H 19 and H 20 contained no interesting gold values. A cabletool hole put down only 4 metres west of H19 found bottom approximately 1 metre deeper than H 19 and had values to 1.0 dwt cu/metre.

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GRADE CALCULATION

With few exceptions values of gold are confined to the bottom samples, approximately 50 cms thick. Figures given in P.R. 73/6, for Line E 0.39 dwt/yd over 1000 ft, and Line D, 0.23 dwt/yd over 500 ft, are raw average grades of the bottom samples. It is extremely doubtful whether it would be possible to strip the overburden leaving only the bottom 50 cms of sediments to be processed. Moreover, it is probable that the average depth of sediment left to be hydrauliced would be 1.00 metre, i.e. that dilution would be of the order of 100%. For this reason grades are calculated for a minimum thickness of 1.0 metre in most cases; isolated values in horizons above the bottom 1.0 metre have been ignored, consistent with the practicality of working the ground.

Results are tabulated in Table 1. It is evident that calculation of yardage would be an unnecessary exercise. Zones of mineralization are delineated on the accompanying map, together with results.

CONCLUSIONS AND RECOMMENDATIONS

Gold occurs in the recent sediments of B.H.G, but not at the grade or yardage originally indicated by Twelvetrees. It is evident that the figures for average grades on Lines E and D are greatly influenced by what are now seen to be erratic high values, namely from holes E 17 - 1.5 dwt/cu metre, E 19 - 0.86 dwt/cu metre, and D 9 - 0.76 dwt cu/metre.

Distribution of old workings indicates the erratic occurrence of the gold. The gully is dotted with old prospecting pits, of which only a fraction have been enlarged upon presumably on striking gold values. The erratic distribution of gold is likewise evident from the present sampling programme. Individual isolated holes carry economic values but distribution is such that reserve estimation is futile.

No further work is envisaged for Black Horse Gully.

It is doubtful whether continuation of the present scout sampling programme in Dans Rivulet is justifiable. Dans Rivulet lies to the north of B.H.G. on the same shear zone. Results in B.H.G. are disappointing. Dans Rivulet occurs in a wider valley, where sediments are deeper. To date, grades in Dans Rivulet do not approach the best of B.H.G grades.

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There is no reason to expect better average values than those obtained in Black Horse Gully.

A.O.J. COX

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APPENDIX

TABLE 1

LINE - L

SAMPLE	SAMPLE THICKNESS	GRADE DWT/CU.YD.	DEPTH OF OVERBURDEN	AV. THICK. METRE	AV GRADE	AV. DEPTH OVER METRE
L-3-1	50 cms	.156	.80	1.00	0.05	0.80
L-3-2	50 cms	-				
L-3	100 cms	.07				
L-13-1	50 cms	.02	.40	1.00	0.16	0.40
L-12-2	50 cms	.41				
L 13	100 cms	.21				

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LINE - H

SAMPLE	SAMPLE	GRADE	DEPTH	AV.	AV.	AV. DEPTH OVER
	THICKNESS	DWT/CU	YD OVER-	THICK.	GRADE	METRE
			BURDEN	METRE		

H-9-2	65	.06	1.30	1.15	0.15	1.30
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H-9-3	50	.38				
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H9	115	.199				
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H-21-3	55	-	2.60	1.00	0.07	2.60
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H-21-4	45	.22				
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H21	1.00	.09				
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LINE E

SAMPLE	SAMPLE THICKNESS	GRADE DWT/CU YD	DEPTH OVER-BURDEN	AV. THICK. METRE	AV. GRADE	AV. DEPTH OVER METRE
--------	------------------	-----------------	-------------------	------------------	-----------	----------------------

E-7-2	50	-	.70			
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E-7-3	50	.362				
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E-7-4	50	.925				
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E7	1.50	.43				
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E-8-2	50	.075	.70			
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E-8-3	50	.414				
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E-8-4	50	-				
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E8	150	0.16				
----	-----	------	--	--	--	--

E-9-3	50	-	1.75			
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LINE 2 (con)

SAMPLE	SAMPLE THICKNESS	GRADE DWT/CU	DEPTH YD OVER-BURDEN	AV. THICK. METRE	AV. GRADE	AV. DEPTH OVER METRE
--------	------------------	--------------	----------------------	------------------	-----------	----------------------

E-9-4	50	.76				
E9	1.00	.38		1.20	0.19	1.60
<hr/>						
E-10-4	50	-	2.15			
E-10-5	50	.20				
E10	1.00	.10				
<hr/>						
E-11-5	50	-	2.70			
E-11-6	50	.422				
E11	100	.21				

E-17-2	50	-	1.30			
E-17-3	50	2.00				
E17	100	1.00				
E-18	1.00	-	80	1.00	0.39	1.40
<hr/>						
E-19-2	50	-	1.25			
E-19-3	50	1.13				
E19	1.00	.56				

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LINE I

SAMPLE	SAMPLE THICKNESS	GRADE DWT/CU.	DEPTH YD.OVER BURDEN	AV. THICK. METRE	AV. GRADE	AV. DEPTH OVER METRE
--------	------------------	---------------	----------------------	------------------	-----------	----------------------

I-14-3	50	-	2.20			
I-14-4	80	.21				
I14	1.30					

I-15-3	50	.12	2.00	1.15	0.23	2.10
I-15-4	50	.96				
I15	100	.54				

I-4	1.40	0.24	.70			
I-5-1	50	-	.80			
I-5-2	50	0.44				
I5	1.00	0.22				

I6	1.00	-	.30	1.10	0.11	0.56
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I-7-1	50	-				
I-7-2	50	0.22				
I7	1.00	0.11				

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LINE K

SAMPLE	SAMPLE THICKNESS	GRADE DWT/CU YD	DEPTH OVER-BURDEN	AV. THICK METRE	AV. GRADE	AV DEPTH OVER METRE
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K-19-2	50	-	1.30			
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K-19-3	50	0.116				
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K19	1.00	0.58				
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K18	1.00	-	2.00			
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K-17-3	50	0.155	1.55			
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K-17-4	50	0.155		1.12	0.05	1.59
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K-17-5	50	0.065				
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K17	1.50	0.125				
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K-16-3	50	0.046	1.50			
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K-16-4	50	0.130				
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K16	1.00	0.088				
-----	------	-------	--	--	--	--

K-8-2	60	0.126	1.30			
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K-8-3	40	0.148		1.00	0.10	1.30
-------	----	-------	--	------	------	------

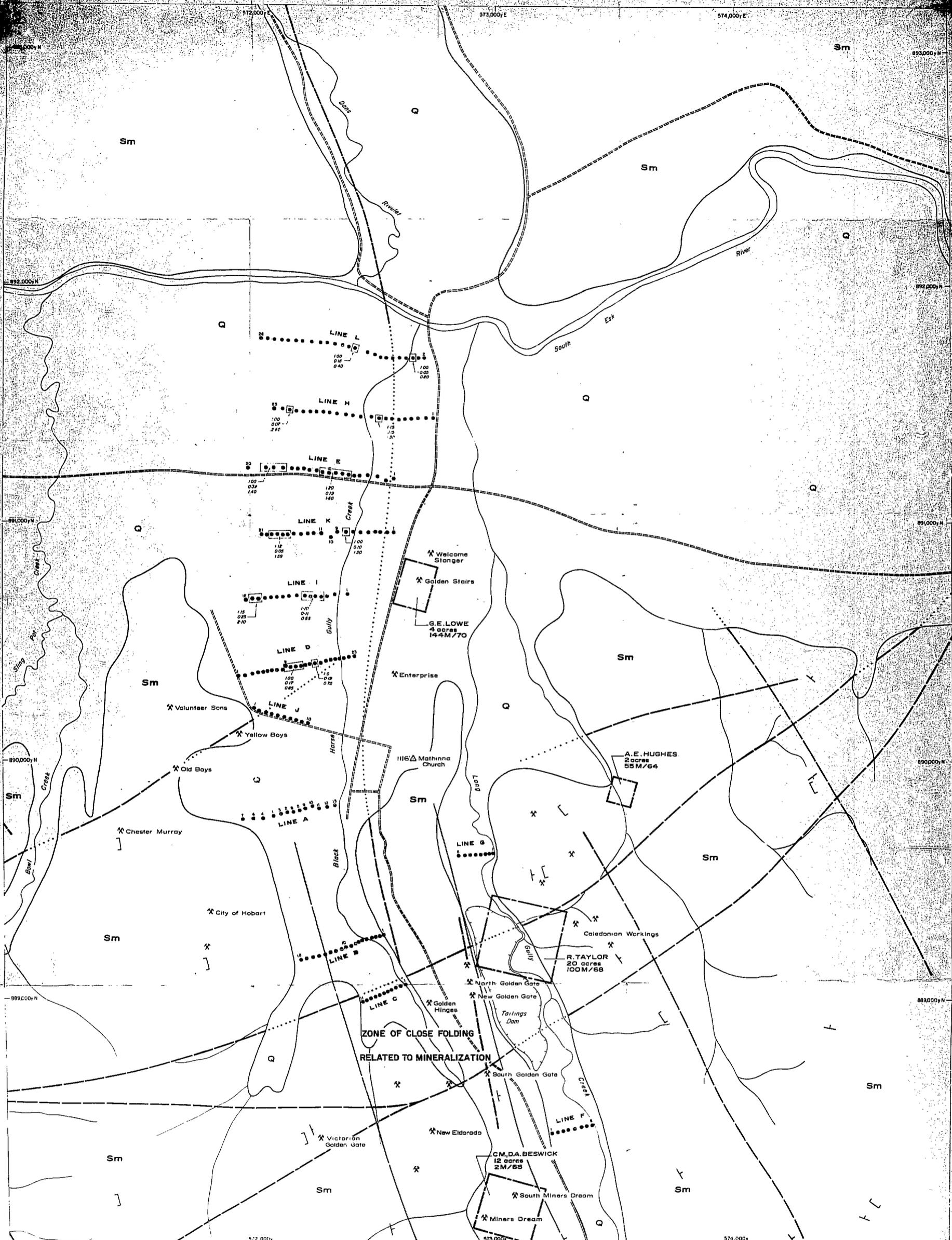
K8	1.00	.137				
----	------	------	--	--	--	--

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LINE D

SAMPLE	SAMPLE THICKNESS	GRADE DWT/CU YD	DEPTH OVER-BURDEN	AV. THICK. METRE	AV. GRADE	AV. DEPTH OVER METRE
D-9-3	50	-	1.00	1.00	0.17	0.85
D-9-4	50	1.06				
D9	100	0.53				
D10 Not sampled	100	-	1.00			
D-11-2	50	-	0.65	1.00	0.17	0.85
D-11-3	50	0.45				
D11	100	0.22				
D-12-3	50	.366	0.75			
D-12-4	50	-				
D12	1.00	0.18				
D-15-3	50	-	110			
D-15-4	50	0.53		1.00	0.19	0.72
D15	100	0.26				



- | | | |
|-----------------------|-------|--|
| Quaternary | Q | Alluvium |
| Struan Mathinna Group | Sm | Silt and quartzite |
| | — | Bedding |
| | — | Fault |
| | — | Fault, inferred photograph, some geology, dotted where concealed |
| | — | Contact |
| | * | Mine, prospect, closed |
| | ••••• | Backhoe pit location |
| | — | Stream |
| | — | Vehicle track |
| | □ | Foreign lease, showing applicant, area, application number |
| | ○ | Average thickness |
| | ○ | Average grade |
| | ○ | Average thickness overburden |

Note: This map is schematic. Alluvial boundaries have been taken from aerial photographs.
 Base taken from Mathinna Regional Geological map 1:6300 (approx.)

Scale 1:6300 (approx.)

1000 0 1000 Feet
 300 0 300 Metres

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TEXAS INSTRUMENTS INCORPORATED
GEOPHOTO RESOURCES
 SYDNEY, AUSTRALIA
 TEXAS DEVELOPMENT PTY. LTD.
 EL 6/68 NORTH EAST TASMANIA
MATHINNA AREA 1999
 Black Horse Gully & Long Gully Creeks
BACKHOE PIT LOCATIONS

PROJECT: 8/68 AUTHOR: M/T/M/B/ACB DATE: Aug. 1973

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GEOPHOTO RESOURCES CONSULTANTS

PROGRESS REPORT 73/14

JUBILEE/MOUNTAINEER GRID -

E.L.6/68 - N.E. TASMANIA

A.C. JOHNSTON

1973

PART OF APPENDIX B - G.M.R. 1973/15

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615092

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Geochemistry	1
Geophysics	2
COSTEAN NO. 2	
Geology and Structure	2
Geophysics	2
CONCLUSION	4

APPENDIX A

Geochemical Sample Analyses	Lab. Sheet No. 1454/1-2
Jubilee-Mountaineer Grid	1463/1
Costeans No. 1 and No. 2	

APPENDIX B (See Volume 3)

Drawing No. A197	Jubilee-Mountaineer Grid Costean No. 1 - Geology
Drawing No. A198	Jubilee-Mountaineer Grid Costean No. 2 - Geology
Drawing No. A221	Jubilee-Mountaineer Grid Costean No. 1 - Chip Sampling
Drawing No. A222	Jubilee-Mountaineer Grid Costean No. 2 - Chip Sampling

Following the proposals of Progress Report 73/11 (Māhinna Lode Au 1.8.73), two locations were costeamed within the Jubilee/Mountaineer grid area, the idea being to further investigate the better I.P. and geochemical anomalies.

Costean No. 1

Geology

The above costean (centred at 135E on line 225N) was geologically mapped in scale 1:250 (see plan).

Pale grey compact slate with generally poorly developed cleavage and weathering to green-grey in colour, formed the dominant rock type. Grey to dark grey slates form the subordinate rock type.

Geochemistry

The costean transgresses a well defined NNW anomalous trend for Mn and Ag and to a lesser extent As and Cu, previously outlined in soil geochemistry survey (Progress Report 73/11 - drawing no. A184).

Although not coincidable with known mineralization trends, the small but well defined As/Cu anomaly was regarded as significant, as the known mineralized trend immediately to the west (Jubilee workings) was successfully outlined by this ratio.

The source of this anomaly (As/Cu) was not revealed in the costean which failed to encounter any macroscopic mineralization.

Rock-chip samples were collected as a routine every 50 cm and except where lithologically controlled, were combined to form a continuous series of 2.5m channels along the length of the costeams. Initial analysis will be for As and Cu and final interpretation of the As/Cu soil anomaly will be made on receipt of the results of the

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above rock-chip samples.

The following descriptions may be significant in the light of the interpretation of the soil geochemical anomalies.

- (a) Manganese/limonite coating was a common feature of the joint surfaces. It appears to be closely related to the weathering process and is almost certainly related to the prominent soil geochemical Mn anomaly.
- (b) Minor joint controlled quartz veinlets were noted, often vughy/limonitic and attaining a maximum width of 4 cm.

Geophysics

There was no surface expression of any mineralization or I.P. conductor, related to the poorly defined I.P. anomaly (between 75E - 135E). It is highly unlikely that the minor occurrence of pyrite casts (syngenetic origin?) is related to the anomaly.

Costean No. 2

Geology and structure

The sequence of varicoloured slates and associated structural features, as illustrated on costean geological plan (1:150), are self explanatory and will not be described in detail.

The following brief discussion will be confined to relating observed features to the results of the previous soil geochemistry and I.P. survey.

A narrow but fairly well defined NNW trending bifurcating As/Cu anomaly was outlined in the previous soil geochemical survey (Progress Report 73/11, drawing no. A184). The anomaly included and extended SSE from the established Jubilee-Mountaineer mineralized trend.

Within the costean, the "eastern arm" of this anomaly coincides with a near vertical zone (approx. 2.5 m in width) of intense shearing and disruption. In turn, this zone is host to abundant, limonitic/vughy quartz in the form of irregular veins and lenses (to 60 cm in width). Three channel samples (see costean plan - JGC.A, JGC.B and JGC.C) were taken across the more prominent quartz exposures and will be assayed for Au. However, the extreme variability in width and attitude, and the lack of continuity in both vertical and lateral extent of these veins and lenses will preclude anything but a qualitative idea of Au content.

Gossanous material occurred in minor quantities within the above-described sheared zone and in particular associated with the quartz veining. The "west arm" of the anomaly was not well exposed in the costean, being located near the head of a gully, and bedrock still mainly covered by colluvium, even after a depth of eight feet.

At the east end of the costean, the NNW trending "swarm" of quartz veinlets may be related to the anomalous As/Cu values in the vicinity of 45E and 60E.

Most of the costean (excepting the west end) was rock-chip sampled at a routine interval of 50 cm and will be treated in a similar way to that already described in costean no. 1. It should be noted, however, that the rock exposed in the costean was often in the highly weathered state which may complicate the interpretation of the results. However, unlike costean no. 1, there appears to be a tangible relationship between high As/Cu values and potentially mineralized trends.

Geophysics

The best expressions of the I.P. anomaly (located between 15W and 60E) were in third and fourth separations, i.e. implying the presence of I.P. conductor (sulphides?) at depth. Although there is only very minor surface expression of sulphide mineralization (now expressed as minor gossanous material associated with the sheared zone near 15E and the often vughy/limonitic nature of the quartz veining) the possibility of the sulphides "making" at depth does exist. Therefore, in this sense the costeaning has neither proved nor disproved the presence of an I.P. conductor.

An additional complication is the presence throughout the length of the costean of sporadic graphitic partings and narrow graphitic bands, which become more abundant within unit SM5. Although not forming a major proportion of the rock type, their presence cannot be precluded from contributing to the I.P. response.

Conclusion

The costeaning has so far yielded very little additional information and pending the results of the channel and rock-chip samples, the situation as discussed in Progress Report 73/11, remains essentially the same.

A.C. Johnston

APPENDIX A

Geochemical Sample Analyses	Lab. Sheet No.	1454/1
Jubilee-Mountaineer Grid		1454/2
Costeans No. 1 and No. 2	Lab. Sheet No.	1463/1

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MINERAL RESOURCES DEVELOPMENT
Milloquin House
Herschel Street, Brisbane 4000
Telephone 27320



615098
CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 003101 PROJECT No. EL.6/68 - MATHINNA JUBILEE MOUNTAINEE GRID
LAB. SHEET No. 1454/1 SAMPLE TYPE: ROCK DATE: 3rd October, 1973

SAMPLE No.	LAB. No.	Cu ppm	As ppm						
JC2 1	73-J-1992	40	30						
JC2 2	73-J-1993	50	30						
JC2 3	73-J-1994	25	BLD						
JC2 4	73-J-1995	30	40						
JC2 5	73-J-1996	40	60						
JC2 6	73-J-1997	60	60						
JC2 7	73-J-1998	15	30						
JC2 8	73-J-1999	30	720						
JC2 9	73-J-2000	55	80						
JC2 10	73-J-2001	35	BLD						
JC2 11	73-J-2002	40	30						
JC2 12	73-J-2003	35	30						
JC2 13	73-J-2004	30	BLD						
JC2 14	73-J-2005	35	30						
JC2 15	73-J-2006	30	BLD						
JC2 16	73-J-2007	35	BLD						
JC2 17	73-J-2008	50	BLD						
JC2 18	73-J-2009	55	BLD						
JC2 19	73-J-2010	25	BLD						
JC2 20	73-J-2011	110	50						
JC2 21	73-J-2012	35	BLD						

METHODS: Cu by GRC NO. 1
As by GRC NO. 3



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Chief Chemist

Ray W. [Signature]

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GEOCHEMICAL RESOURCES CONSULTANTS

Millaquin House
Herschel Street, Brisbane 4000
Telephone 2 7320



CHEMICAL LABORATORY 61501

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. DD7450 PROJECT No. EL. 6/68 MATHINNA: JUBILEE MOUNTAINEER
CHANNEL GRID
LAB. SHEET No. 1454/2 SAMPLE TYPE: SAMPLES DATE: 3rd October 1973

SAMPLE No.	LAB. No.	AU PPM							
JGC A1	73-J-1973	BLD							
JGC A2	73-J-1974	BLD							
JGC A3	73-J-1975	BLD							
JGC A4	73-J-1976	BLD							
JGC A5	73-J-1977	BLD							
JGC A6	73-J-1978	BLD							
JGC A7	73-J-1979	BLD							
JGC B1	73-J-1980	BLD							
JGC B2	73-J-1981	BLD							
JGC B3	73-J-1982	BLD							
JGC B4	73-J-1983	BLD							
JGC B5	73-J-1984	BLD							
JGC B6	73-J-1985	BLD							
JGC B7	73-J-1986	BLD							
JGC B8	73-J-1987	BLD							
JGC C1	73-J-1988	BLD							
JGC C2	73-J-1989	BLD							
JGC C3	73-J-1990	BLD							
JGC C4	73-J-1991	BLD							
LOWER LIMIT OF DETECTION		0.1 PPM							

METHODS: Au by GRC NO. 122



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Chief Chemist

095

MILLIQUIN HOUSE
Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LAB.
4th Floor Red Comb House,
Roma Street, Brisbane 4000
Telephone 21 3875
15 OCT 1973

GEOCHEMICAL LABORATORY REPORT 615100

FIELD SHEET No.: 003104 PROJECT No.: EL.6/68 - MATHINNA: JUBILEE-MOUNTAINEER
LAB. SHEET No.: 1463/1 SAMPLE TYPE: ROCK DATE: 11th October, 1973

SAMPLE No.	LAB. No.	Cu ppm	As ppm						
JC1-1	73-K-59	25	BLD						
JC1-2	73-K-60	20	BLD						
JC1-3	73-K-61	30	20						
JC1-4	73-K-62	45	30						
JC1-5	73-K-63	30	BLD						
JC1-6	73-K-64	40	30						
JC1-7	73-K-65	25	BLD						
JC1-8	73-K-66	30	BLD						
JC1-9	73-K-67	20	40						
JC1-10	73-K-68	15	BLD						
JC1-11	73-K-69	10	BLD						
JC1-12	73-K-70	70	20						
JC1-13	73-K-71	40	20						
JC1-14	73-K-72	30	40						
JC1-15	73-K-73	65	20						
JC1-16	73-K-74	10	BLD						
JC1-17	73-K-75	15	BLD						
JC1-18	73-K-76	40	30						
JC1-19	73-K-77	115	20						
JC1-20	73-K-78	60	30						
JC1-21	73-K-79	35	BLD						
JC1-22	73-K-80	25	30						
JC1-23	73-K-81	45	50						

METHODS: Cu by Method 1
As by Method 5



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Ray W. M. [Signature]

Chief Chemist

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GEOPHOTO RESOURCES CONSULTANTS

STATUS REPORT : SERIES I

MATHINNA, E.L.6/68

W.S. TURNER

23rd March, 1973

PART OF APPENDIX B - G.M.R. 1973/15

INTRODUCTION

The prospects lie within a 24 sq. mile block of EL 6/68 and include the Mathinna and Tower Hill Goldfields and the southern part of the Dans Rivulet Goldfield. These areas comprise of 6 strike line miles of the 56 mile line of Au mineralization from Mangana to Waterhouse. Application has been made for a 22 sq. mile area (to be included in EL 6/68) as a northward extension of the present EL along the Dans Rivulet, mainly for the purposes of investigating the alluvials.

DATA AVAILABLE

Montgomery, A. 1892	Report on the Mathinna Goldfield.
Twelvetrees, W.H. 1906	Report on the Mathinna Goldfield.
Twelvetrees, W.H. 1914	On some gold-mining properties at Mathinna.
Nye, P.B. 1924	Report on Jubiless Mine, Mathinna.
McIntosh-Reid, A. 1929	On results of mining development at the 300' level of Old Boys Mine, Mathinna.
Finucane, K.J. 1933	Mathinna and Tower Hill Goldfields.

Nye, P.B. 1941

The City of Melbourne Mine,
Mathinna.

Geophoto Minerals Report 1969/27 I.D. Neuss

" " " 1972/16 W. Turner (in preparation
in Sydney).

OBJECTIVES OF INVESTIGATION

A. Regional Work (Completed):

1. Location of the NNW-SSE trending fault zone, known to contain the best Au mineralization.
2. Outlining the potential Au bearing alluvials.

B. Detail Work (1 and 2a In Progress, 2b Projected):

1. Determine the best suited tools for locating lode mineralization by using techniques thought to be most likely to work considering the physical and chemical properties of the lodes already encountered.

2a. Backhoe Sampling of Alluvials:

- 1) Blackhorse Gully - to check report by Twelvetrees 1906 (approximately 600,000 yards of $\frac{1}{2}$ dwt. Au/yd)
- 2) In Long Gully Creek, in which locals are presently

finding colours. (This gully has a surface area of 400,000 sq. yds, with a depth of alluvium up to 4 yds).

2b. Seismic work in Dans Rivulet to locate channel, prior to percussion drilling.

Also surveying of line prior to seismic work.

EXPLORATION METHODS - HARD ROCK PROSPECTS

A. Geological (Completed):

1. Regional mapping (6300:1) of the area to locate the main NNW-SSE trending fault zone.
2. Detail mapping (750:1) over that portion of this fault zone, containing the Jubilee Mine.

B. Geochemical (Completed except for interpretation):

Soil sampling on Jubilee and City of Hobart Grids. It appears that from analyses on Jubilee area, the sulphide minerals vary greatly in relative abundances, such that, anomalies are small sporadic and not necessarily coincident. At present the interpretation is uncertain.

C. Geophysical (Completed except for interpretation):

1. V.L.F. on the Jubilee Grid outlined several long continuous low order anomalies thought not to be caused by sulphide mineralization. The method is probably not applicable to this area.

2. I.P. on the Jubilee Grid by Austral Geophysics. In all, 18 spreads over 9 lines using 30 metre dipoles. Several anomalies of questionable significance still being evaluated.

EXPLORATION METHODS - ALLUVIALS

A. Backhoe Sampling (In Progress):

Backhoe holes 20m apart along 7 scout lines, which vary from 700' to 2400' apart, depending on the distance from the source. The holes are channel sampled, each sample 0.5m long. Samples are from 100-300 cub. ins. depending on the size of the gravel. To date 74 of the 90 holes have been completed. Of these 47 have been sampled for a total of 239 samples. 95 samples have been processed. 33 concentrate samples have been analysed, of which the best has been sample A5-4, 1.68 dwt/cu.yd. i.e. approx \$5 per yard.

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B. Seismic Work in Dans Rivulet (Projected):

- 1. Hire a Geo Space Model GT-2B Portable Refraction System from Seismic Supply to determine position of old channel.
- 2. Surveying of these seismic lines.
- 3. Percussion drilling to test the channel.

PROJECTED WORK

A. Hard rock prospects.

Investigate three anomalies on the Jubilee Grid which are defined by geochem and I.P. by shallow costeaning (probably < 5')

B. Alluvials:

- 1. After completion of the 7 scout lines of holes in Long Gully Creek and Black Horse Gully, assess results with hope of outlining channels for more closely spaced backhoe sampling.
- 2. Surveying and seismic work in Dans Rivulet.

B. TURNER

GEOPHOTO RESOURCES CONSULTANTS

STATUS REPORT : SERIES III

STATUS REPORT ON
ALLUVIAL PROSPECT, DANS RIVULET
MATHINNA AREA, E.L.6/68

A.O.J. COX

September, 1973

PART OF APPENDIX B - G.M.R. 1973/15

CONTENTS:

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BACKHOE WORK	2
CABLE TOOL DRILLING	3
SAMPLING	3
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APPENDIX: Laboratory Reports of sample analyses.

MAPS: DANS RIVULET ALLUVIAL PROSPECT 1:6300
 Drawing No. A - 199

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INTRODUCTION

This report should be read in conjunction with other reports on the alluvial prospect in the Mathinna Area (PR 13/73, PR 6/73). A programme of work was outlined in Recommended Plans for APM Contract, February 1973.

AIM

The aim of the programme was to define areas of gold bearing alluvials. The valley of the Dans Rivulet is 6 miles long and varies between $\frac{1}{2}$ - 1 mile in width. The valley may be divided into its present flood plain and its terraces.

The Dans Rivulet follows a major NNW shear zone, This zone, where exposed south of Mathinna, is known to have favoured gold mineralization. The hills flanking the Dans Rivulet also contain many small lode gold workings. It was therefore considered that two factors existed to point to possibly economic alluvial gold values in the valley of the Dans Rivulet.

PROPOSED METHOD

It was proposed that the Dans Rivulet be first surveyed with some seismic traverses to determine the depth to bedrock and the location of possible channels in the bedrock. It was reported that alluvium had been recorded to a depth of 70 metres. Any channels discovered were to be considered as the main target in a churn drilling programme.

SEISMIC WORK

An SIE RS⁴, 12 channel seismograph was used to survey two traverses across the Dans Rivulet. It was recommended by J.E. Shirley, University of Tasmania, that the Hawkins or Reciprocal Method would provide maximum depth information. In practice, the method could not be used due to a malfunction in the unit. Instead the classical reverse probe method was employed, which obtains two depth readings, for two shots, one at each end of the spread. The geophone interval was 8 metres, the spread length 80 metres and shots were fired 4 metres off-end. Charge size was two 1" sticks of Polar 60 Gelignite, placed at an approximate depth of 1 metre. This spread configuration was considered suitable for depths between 3 - 25 metres, and to be adequate to define the bedrock profile. Deeper sections were to be defined with overlapping probes.

The traverses completed covered both the present flood plain and the terrace areas. Results indicated shallow depths, of the order of 2 - 4 metres, and it was decided to test the flats with the backhoe.

BACKHOE WORK

Several backhoe pits were dug on line A, both on the flat and on the wide terrace east of the flats. All the holes failed to reach bottom. The limit of the backhoe in normal operation was 4 metres. By digging the machine into a slot, a maximum depth of 5 metres can be reached. However, this method of testing was found to be unsuitable on the river flats, due to the fast inflow of water and the nature of the deeper sediments. Sampling in the coarse gravel caused the holes to get wider rather than deeper.

CABLE TOOL DRILLING

It was decided to test the area (Line A) using a cable tool rig, though it was realised that drilling problems would be encountered with the difficult ground, namely the coarse gravel, with large pebbles and occasional boulders (2 ft. diam.). In operation it was obvious that the method was unsuitable. The rate of drilling was extremely slow, and even then damage to casing and sampling shoes was considerable, with frequent downtime for breakages. However, as the only suggested alternative was a pile-driver which would have involved high initial establishment costs and was itself 'untried' as a sampling method, it was decided to persevere with the cable tool rig.

At this stage the scale of the programme was drastically modified. Instead of close space (25 metre) testing on five lines A - E, which would have involved approximately 140 holes, it was decided to limit the programme to 18 holes, Lines B - E to each be tested by 3 holes. The aim was to obtain depth information and to have an indication of the gold values, to see whether a pile driver programme was justifiable.

SAMPLING

The normal way of sampling with the cable tool is to first penetrate the gravel with the casing. Then the cable tool is lowered to retrieve the sediments inside the casing. The tool consists of a tube which has a sampling shoe at the lower end. The tube falls under

gravity, and the sediments are forced up into the sample tube. The casing shoe has a clacker valve which prevents the sediments from falling out of the tube. The tube is allowed to rise and fall until all the sediments in the casing are collected. The casing is then driven a few feet further and the process is repeated. Great difficulty was encountered in trying to pick up the sample with the tool because of the numerous stones. The method finally adopted was to dry plug, using only the casing. This worked well in clayey gravel where the hole stood up fairly well, though some contamination would be caused by caving, during withdrawal and relowering of the casing. To reduce this tendency and to prevent worsening of an already slow rate of progress, the sample interval was made 5 ft., the casing length. Samples were collected in plastic bins for transport to St. Helens.

Volumes were obtained by first pouring off the liquid part of the sample, and measuring the value of the solid material by the displacement method. The solid and liquid portion were then combined again and the whole sample panned. Values are therefore somewhat smaller than they should be, and grades fractionally higher.

RESULTS AND CONCLUSIONS

Eleven cable tool holes were drilled on the present flood plain, the average depth to bedrock being 16 ft. Of these holes the best sample result was 0.12dwt/yd. Au. (A-10-6). The volume of this sample was extremely small and the result is questionable. A more reliable value was obtained in C-1-3, namely 0.09 dwt/yd over a 5ft. interval. Of the seven holes on the terraces, the average depth was 33ft. and the best value obtained was 0.04dwt/yd. again over a 5ft. length.

From these figures it is obvious that further calculation of grade is unnecessary. Locations of the holes are shown on the accompanying 1:6300 map. Cross-sections have not been drawn, the distance between the holes being too great for meaningful correlation of sediments.

No further work is recommended for the Dans Rivulet Alluvials.

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Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



APPENDIX

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007312 PROJECT No. EL 6-68 MATHINNA: DONS RIVULET
BACKHOE

LAB. SHEET No. 1381/4 SAMPLE TYPE: CONCENTRATE DATE: 16-7-73

SAMPLE No.	LAB. No.	AU ppm	Wt Gms	Wt Lbs			
A1 - 1	73-G-389	BLD	27.7	0.061			
A1 - 2	73-G-390	BLD	37.6	0.083			
A1 - 3	73-G-391	BLD	36.8	0.081			
A2 - 1	73-G-392	BLD	35.8	0.079			
A2 - 2	73-G-393	0.6	37.1	0.082			
A2 - 3	73-G-394	BLD	38.0	0.084			
A2 - 4	73-G-395	BLD	38.2	0.084			
A3 - 1	73-G-396	BLD	36.4	0.080			
A3 - 2	73-G-397	BLD	38.5	0.085			
A3 - 3	73-G-398	1.0	38.7	0.085			
A3 - 4	73-G-399	BLD	41.6	0.092			
A3 - 5	73-G-400	BLD	36.9	0.081			
B1 - 1	73-G-401	0.2	30.9	0.068			
B1 - 2	73-G-402	BLD	27.8	0.061			
B1 - 3	73-G-403	BLD	32.6	0.072			
B1 - 4	73-G-404	BLD	36.2	0.080			
B1 - 5	73-G-405	BLD	23.5	0.052			
B2 - 1	73-G-406	BLD	32.2	0.071			
B2 - 2	73-G-407	BLD	35.4	0.078			
B2 - 3	73-G-408	BLD	25.7	0.057			
A5 - 1	73-G-409	BLD	28.6	0.063			
A5 - 2	73-G-410	BLD	47.8	0.105			
A5 - 3	73-G-411	4.1	33.1	0.073			
A5 - 4	73-G-412	BLD	36.0	0.079			
SP - 1	73-G-413	5.5	32.7	0.072			
SP - 2	73-G-414	BLD	34.6	0.076			

METHODS: Au by GRC NO. 122

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GEOCHEMICAL LABORATORY REPORT

015115

FIELD SHEET No.: 007316 PROJECT No.: E1 6/68 MATHINNA DANS RIVULET
CABLE TOOL
LAB. SHEET No.: 1390/k SAMPLE TYPE: CONCENTRATE DATE: 3/8/73

SAMPLE No.	LAB. No.	AU ppm	Ozs.	Grams	Lbs.
A - 7 - 1	73-G-843	0.4		19.5	0.043
A - 7 - 2	73-G-844	1.6		29.4	0.065
A - 7 - 3	73-G-845	0.1		25.7	0.057
A - 8 - 1	73-G-846	0.6		15.8	0.035
A - 8 - 2	73-G-847	BLD		32.3	0.071
A - 8 - 3	73-G-848	BLD		33.8	0.075
A - 8 - 4	73-G-849	6.2		20.7	0.046
A - 8 - 5	73-G-850	0.1		17.6	0.039
A - 8 - 6	73-G-851	20.6	0.59	29.2	0.064
A - 9 - 1	73-G-852	1.0		31.7	0.070
A - 9 - 2	73-G-853	0.2		35.2	0.078
A - 10 - 1	73-G-854	BLD		15.8	0.035
A - 10 - 2	73-G-855	6.0		30.6	0.067
A - 10 - 3	73-G-856	4.9		33.4	0.074
A - 10 - 4	73-G-857	BLD		33.1	0.073
A - 10 - 5	73-G-858	10.5	0.31	35.7	0.079
A - 10 - 6	73-G-859	10.3	0.31	29.4	0.065
A - 11 - 1	73-G-860	0.1		30.8	0.068
A - 11 - 2	73-G-861	7.4		31.3	0.069
A - 11 - 3	73-G-862	17.6	0.51	28.9	0.064
A - 12 - 1	73-G-863	1.8		23.0	0.051
A - 13 - 1	73-G-864	0.1		25.3	0.056
A - 13 - 5	73-G-865	3.5		38.4	0.085
B - 3 - 1	73-G-866	0.2		32.5	0.072
B - 3 - 2	73-G-867	BLD		30.3	0.067
B - 3 - 3	73-G-868	BLD		33.5	0.074

METHODS:

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Herschel Street, Brisbane 4000
Telephone 27320



Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

615116

FIELD SHEET No.: 007319 PROJECT No.: EL 6-68 MAIHINNA - DAN'S RIVULET
DRILL
LAB. SHEET No.: 1397/4 SAMPLE TYPE: CONCENTRATE DATE: 9th August, 1973.

SAMPLE No.	LAB. No.	Au ppm	Au Ozs	Weight	
				Gms	Lbs
A13 - 2	73-H-175	0.3		19.9	0.044
A13 - 3	73-H-176	BLD		37.8	0.083
A13 - 4	73-H-177	9.0		40.2	0.089
B 3 - 4	73-H-178	BLD		33.2	0.073
B 3 - 5	73-H-179	BLD		32.7	0.072
B 3 - 6	73-H-180	BLD		36.2	0.080
B 3 - 7	73-H-181	1.0		33.1	0.073

METHODS: Au by GRC No. 122



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reported herein have been per-

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GEOCHEMICAL LABORATORY REPORT

615117

FIELD SHEET No. 007321 PROJECT No. EL6-68 MATHLINNA: DANS RIVULET

LAB. SHEET No. 1406/1 SAMPLE TYPE: CONCENTRATE DATE: 29th August, 1973.

SAMPLE No.	LAB. No.	AU ppm	AU OZS	Wt. gms	Wt. lbs.
B4 - 1	73-H-724	BLD		20.8	0.046
2	73-H-725	BLD		25.2	0.056
3	73-H-726	2.4		32.2	0.071
4	73-H-727	6.3		23.7	0.052
5	73-H-728	3.8		35.6	0.078
6	73-H-729	22.1	0.64	12.0	0.026
7	73-H-730	6.1		20.9	0.046
8	73-H-731	0.1		22.4	0.049
B5 - 1	73-H-732	BLD		23.2	0.051
2	73-H-733	BLD		22.6	0.050
C1 - 1	73-H-734	0.3		31.2	0.069
2	73-H-735	2.7		35.7	0.079
3	73-H-736	108	3.18	24.5	0.054
C2 - 1	73-H-737	0.2		28.6	0.063
2	73-H-738	BLD		24.3	0.054
3	73-H-739	BLD		10.1	0.022
4	73-H-740	0.1		23.2	0.051
5	73-H-741	0.1		30.7	0.068
6	73-H-742	1.5		21.8	0.048
7	73-H-743	1.3		32.9	0.070
D1 - 1	73-H-744	14.7	0.42	44.0	0.097
2	73-H-745	1.1		35.6	0.078
3	73-H-746	6.7		35.3	0.078
E1 - 1	73-H-747	18.8	0.31	26.9	0.059
2	73-H-748	1.7		26.0	0.057
3	73-H-749	1.1		38.1	0.084
4	73-H-750	BLD		31.7	0.070
E2 - 1	73-H-751	BLD		22.6	0.050
2	73-H-752	BLD		29.5	0.065
3	73-H-753	4.1		38.0	0.084
4	73-H-754	0.2		38.5	0.085

METHODS: Au by GRC No. 122

Ozs ≡ ounces per short ton of 2,000 lbs.



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Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT 615118

FIELD SHEET No. 007321/22 PROJECT No. EL 6-6B MATHINNA: DANS RIVULET

LAB. SHEET No. 1406/2 SAMPLE TYPE: CONCENTRATE DATE: 29th August, 1973.

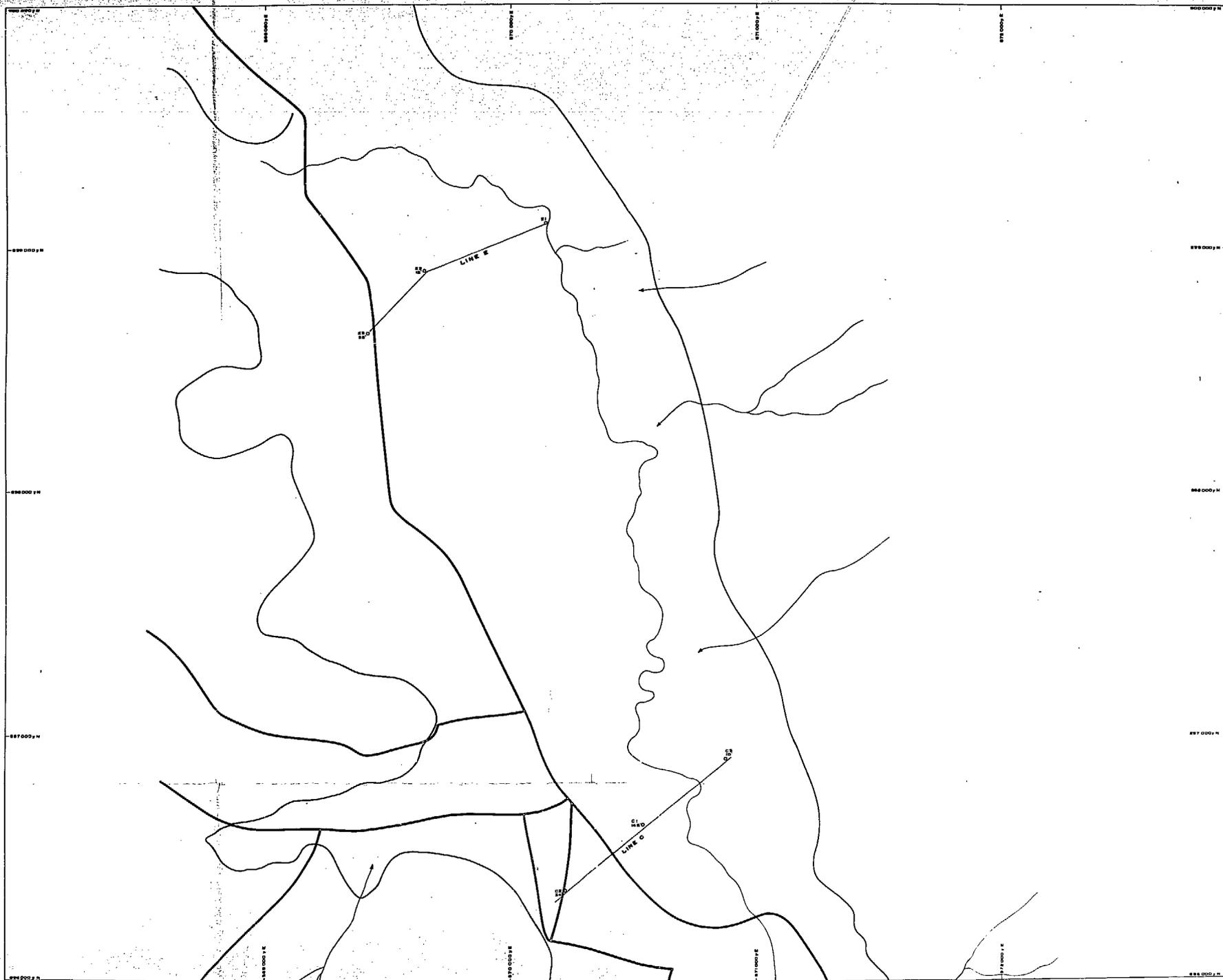
SAMPLE No.	LAB. No.	Au ppm	Au ozs	Wt. gms	Wt. lbs.
E3 - 1	73-H-755	0.1		31.1	0.069
2	73-H-756	BLD		33.5	0.074
C3 - 1	73-H-876	0.1		21.0	0.047
2	73-H-877	8.0		36.8	0.081
D3 - 1	73-H-878	12.8	0.37	40.2	0.089
2	73-H-879	BLD		36.4	0.080
3	73-H-880	77.3	2.2	49.7	0.110
D2 - 1	73-H-881	0.3		25.8	0.057
2	73-H-882	BLD		41.0	0.090
3	73-H-883	BLD		38.3	0.085
E3 - 3	73-H-884	BLD		31.2	0.069
4	73-H-885	6.3		41.3	0.091
5	73-H-886	0.1		40.7	0.090
6	73-H-887	66.7	1.9	31.6	0.070
7	73-H-888	11.6	0.33	39.0	0.086

METHODS:



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Handwritten signature and date: 29/8/73



SHEET INDEX



Alluvial Boundary
 Line Notes
 Elevation Contours
 1:1000
 1:500
 1:250
 1:125
 1:62.5
 1:31.25
 1:15.625
 1:7.8125
 1:3.90625
 1:1.953125
 1:0.9765625
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SHEET INDEX



Alluvium boundary
 Live fence
 Seismic coverage
 Contour lines
 Location and date to be used in text
 Bench mark
 Location and date to be used in text
 Spot height
 Location and date to be used in text

Road
 Track
 Creek

Base map compiled from enlarged aerial photographs

Scale: 1:8300 (approx.)



74-994

TEXAS INSTRUMENTS INCORPORATED
GEOPHOTO RESOURCES
 SYDNEY, AUSTRALIA

TERKINS DEVELOPMENT PTY. LTD.

EL.6/68 NORTH EAST TASMANIA

MATHINNA AREA

Dene Rivulet Prospect

ALLUVIAL TESTING

2005

GEOGRAPHY 0/68 AUTHOR J. Matthews DATE (20/05/2013) SHEET NO. 2 OF 2

SHEET 2 OF 2

APPENDIX C

GEOCHEMICAL SHEETS NOT IN OTHER REPORTS

Lab. Sheet Numbers	1270/1
Progress Reports	1280/1
	1306/1-3
	1325/1-5
	1330/1-5
	1331/1-2
	1381/1-3
	1390/1-3
	1397/1-3
Lab. Sheet Numbers	1381/4
Dans Rivulet,	1390/4
Status Report	1397/4
	1406/1-2

GEOPHOTO RESOURCES CONSULTANTS
 Millaquin House
 Herschel Street, Brisbane 4000
 Telephone 27320



CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 002543 PROJECT No.: EL.6/68 - MATHINNA - BLACK HOUSE
 LAB. SHEET No.: 1270/1 SAMPLE TYPE: HEAVY METAL DATE: 8th March, 1973
GULLY ALLUVIALS
CONCENTRATE

SAMPLE No.	LAB. No.	WT gms	WT lbs	AU ppm			
A2 - 1	73-C-445	127.9	0.282	<0.1			
A2 - 2	73-C-446	96.6	0.213	<0.1			
A2 - 3	73-C-447	117.3	0.258	<0.1			
A2 - 4	73-C-448	139.8	0.308	<0.1			
A2 - 5	73-C-449	130.6	0.286	0.5			
A4 - 5	73-C-450	157.8	0.346	<0.1			
A5 - 1	73-C-451	60.0	0.132	0.2			
A5 - 2	73-C-452	112.1	0.247	<0.1			
A5 - 3	73-C-453	112.0	0.247	<0.1			
A5 - 4	73-C-454	145.8	0.321	119 - 3.463 oz per ton			
A8 - 1	73-C-455	136.9	0.301	0.9			
A8 - 2	73-C-456	130.1	0.286	<0.1			
A8 - 3	73-C-457	108.8	0.239	<0.1			
A8 - 4	73-C-458	104.3	0.229	0.4			
A8 - 5	73-C-459	91.5	0.202	<0.1			
A8 - 6	73-C-460	51.7	0.114	<0.1			
B 13-7	1-48plst.						

METHODS: Au by G.R.C. NO. 122
 BLD = Below limit of detection



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Chief Chemist *Ray W. [Signature]*

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GEOPHOTO RESOURCES CONSULTANTS

Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



615122

CHEMICAL LABORATORY

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002545 PROJECT No. EL.6/68 - MATHINNA - BLACKHORSE GULLY

LAB. SHEET No. 1280/1 SAMPLE TYPE ALLUV. GOLD DATE 14th March, 1973
CONC.

SAMPLE No.	LAB. No.	Au ppm	Au DWT	Wt lbs
A1 - 1	73-C-683	BLD	-	0.128
A1 - 2	73-C-684	BLD	-	0.202
A1 - 3	73-C-685	BLD	-	0.257
A1 - 4	73-C-686	0.3	0.18	0.297
A1 - 5	73-C-687	BLD	-	0.150
A1 - 6	73-C-688	8.0	4.67	0.197
A1 - 7	73-C-689	0.1	0.06	0.234
A9 - 1	73-C-690	BLD	-	0.168
A9 - 2	73-C-691	BLD	-	0.261
A9 - 3	73-C-692	BLD	-	0.171
B1 - 1	73-C-693	BLD	-	0.272
B1 - 2	73-C-694	BLD	-	0.196
B1 - 3	73-C-695	BLD	-	0.220
B1 - 4	73-C-696	BLD	-	0.189
B1 - 5	73-C-697	BLD	-	0.214
B1 - 6	73-C-698	BLD	-	0.188
B1 - 7	73-C-699	BLD	-	0.187

METHODS: Au by G.R.C. NO. 122
Wt by G.R.C. NO. 704

BLD = Below limit of detection
DWT = Pennyweights per short ton of 2,000 lbs



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Chief Chemist

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Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



F2-F8
C1-C3
B2-B8

615123

CHEMICAL LABORATORY

4th Floor Recl Comb House
Roma Street, Brisbane 4000
Telephone 21 3375

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. DD2546-49 PROJECT No. EL.6/68 - MATHINNA LONG GULLY CREEK

LAB. SHEET No. 1306/1 SAMPLE TYPE BACKHOE SAMP DATE 12th April, 1973

CONCENTRATE

SAMPLE No.	LAB. No.	Au ppm	oz/ton	Gms	Lbs				
F2 - 1	73-D-238	BLD		77.90	.172				
F2 - 2	73-D-239	BLD		68.70	.151				
F2 - 3	73-D-240	BLD		55.60	.120				
F2 - 4	73-D-241	BLD		67.80	.149				
F2 - 5	73-D-242	BLD		81.40	.179				
F2 - 6	73-D-243	0.5		87.60	.193				
F3 - 1	73-D-244	1.1		59.80	.132				
F3 - 2	73-D-245	0.1		58.60	.129				
F3 - 3	73-D-246	1.3		71.00	.157				
F3 - 4	73-D-247			81.80	.178				
F3 - 5	73-D-248	1.9		66.20	.146				
F3 - 6	73-D-249	0.7		77.00	.170				
F5 - 1	73-D-250	4.2		51.50	.114				
F5 - 2	73-D-251	BLD		69.80	.154				
F5 - 3	73-D-252	BLD		60.30	.133				
F5 - 4	73-D-253	BLD		88.90	.196				
F5 - 5	73-D-254	BLD		51.90	.114				
F5 - 6	73-D-255	BLD		42.40	.093				
F5 - 7	73-D-256	BLD		57.70	.127				
F6 - 1	73-D-257	1.2		66.10	.146				
F6 - 2	73-D-258	BLD		49.80	.110				
F6 - 3	73-D-259	BLD		79.10	.174				
F6 - 4	73-D-260	BLD		104.90	.231				
F6 - 5	73-D-261	BLD		63.20	.139				
F6 - 6	73-D-262	BLD		81.60	.180				
F6 - 7	73-D-263	BLD		86.70	.191				
F7 - 1	73-D-264	BLD		71.40	.157				
F7 - 2	73-D-265	BLD		113.80	.250				
F7 - 3	73-D-266	BLD		114.10	.251				
F7 - 4	73-D-267	BLD		89.70	.198				

METHODS: Au by GRC NO. 122

BLD = Below limit of detection



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Chief Chemist

W. M. ...

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615124

GEOCHEMICAL RESOURCES CONSULTANTS
 Millaquin House
 Herschel Street, Brisbane 4000
 Telephone 2 7320



CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002546-49 PROJECT No. EL.6/68 - MATHINNA LONG GULLY CREEK

LAB. SHEET No. 1306/2 SAMPLE TYPE BACKHOLE SAMP DATE 12th April, 1973

CONCENTRATE

SAMPLE No.	LAB. No.	Au ppm	oz/ ton	Gms	Lbs				
F7 - 5	73-D-268	2.1		112.60	.248				
F7 - 6	73-D-269	BLD		81.40	.179				
F7 - 7	73-D-270	6.7		79.20	.175				
F8 - 1	73-D-271	BLD		56.80	.125				
F8 - 2	73-D-272	BLD		74.60	.164				
F8 - 3	73-D-273	BLD		60.20	.133				
F8 - 4	73-D-274	0.9		56.70	.125				
F8 - 5	73-D-275	BLD		71.00	.157				
F8 - 6	73-D-276	9.9		84.60	.187				
F8 - 7	73-D-277	181.3	5.37	98.80	.218				
C1 - 1	73-D-278	BLD		75.30	.166				
C1 - 2	73-D-279	BLD		96.40	.213				
C1 - 3	73-D-280	1.7		142.10	.313				
C1 - 4	73-D-281	0.1		73.90	.163				
C1 - 5	73-D-282	BLD		106.10	.233				
C1 - 6	73-D-283	BLD		89.50	.197				
C1 - 7	73-D-284	13.1	0.41	130.10	.286				
C2 - 1	73-D-285	1.1		74.00	.163				
C2 - 2	73-D-286	BLD		90.43	.199				
C2 - 3	73-D-287	BLD		92.30	.203				
C2 - 4	73-D-288	10.70	.291	94.50	.208				
C2 - 5	73-D-289	2.4		133.30	.293				
C3 - 1	73-D-290	BLD		77.90	.172				
C3 - 2	73-D-291	BLD		77.00	.169				
C3 - 3	73-D-292	BLD		111.70	.246				
C3 - 4	73-D-293	1.9		97.40	.215				
B2 - 1	73-D-294	BLD		76.10	.168				
B2 - 2	73-D-295	BLD		91.20	.201				
B2 - 3	73-D-296	BLD		131.30	.289				
B2 - 4	73-D-297	BLD		97.20	.214				

METHODS:



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Chief Chemist

[Handwritten Signature]

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GEOCHEMICAL RESOURCES CONSULTANTS

Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



615125

CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002546-49 PROJECT No. EL.6/68 - MATHINNA LONG GULLY CREEK

LAB. SHEET No. 1306/3 SAMPLE TYPE BACKHOC SAMP. DATE 12th April, 1973
CONCENTRATE

SAMPLE No.	LAB. No.	AU PPM	oz/ ton	Gms	Lbs				
B2 - 5	73-D-298	BLD		146.80	.323				
B2 - 6	73-D-299	BLD		99.50	.219				
B3 - 1	73-D-300	BLD		100.40	.220				
B3 - 2	73-D-301	BLD		71.10	.157				
B3 - 3	73-D-302	BLD		94.60	.209				
B3 - 4	73-D-303	BLD		115.30	.254				
B3 - 5	73-D-304	BLD		78.70	.173				
B3 - 6	73-D-305	1.0		83.80	.185				
B4 - 1	73-D-306	BLD		68.40	.151				
B4 - 2	73-D-307	1.2		47.00	.104				
B4 - 3	73-D-308	BLD		120.40	.265				
B4 - 4	73-D-309	1.4		93.70	.207				
B5 - 1	73-D-310	BLD		98.70	.218				
B5 - 2	73-D-311	BLD		119.40	.263				
B5 - 3	73-D-312	0.1		111.10	.245				
B5 - 4	73-D-313	BLD		105.50	.232				
B6 - 1	73-D-314	BLD		92.40	.204				
B6 - 2	73-D-315	0.3		127.30	.280				
B6 - 3	73-D-316	BLD		115.10	.253				
B6 - 4	73-D-317	18.7		114.40	.252				
B7 - 1	73-D-318	0.1		123.70	.272				
B7 - 2	73-D-319	BLD		95.60	.211				
B7 - 3	73-D-320	3.6		124.60	.274				
B8 - 1	73-D-321	BLD		94.10	.207				
B8 - 2	73-D-322	BLD		86.80	.191				
B8 - 3	73-D-323	0.1		127.40	.280				

METHODS:

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Chief Chemist

Ray W. Anderson

121

615126 *Sy*

GEOCHEMICAL RESOURCES CONSULTANTS
Milloquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY
4th Floor Red Cornish House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002550- PROJECT No. EL.G/68 - MATHINNA LONG GULLY CREEK
007356

LAB. SHEET No. 1325/1 SAMPLE TYPE CONCENTRATE DATE 8th May, 1973

SAMPLE No.	LAB. No.	Wt gms	Wt lbs	Au ppm	Au dwt	Au oz/ton
G1-1	73-E-1	70.3	0.155	1.7	0.99	
G1-2	73-E-2	57.7	0.127	BLD	BLD	
G1-3	73-E-3	69.7	0.154	0.2	0.12	
G1-4	73-E-4	72.5	0.160	BLD	BLD	
G1-5	73-E-5	45.9	0.101	19.5	11.390	0.568
G2-1	73-E-6	53.3	0.118	4.7	2.74	
G2-2	73-E-7	61.4	0.135	5.5	3.27	
G2-3	73-E-8	63.9	0.141	0.6	0.35	
G2-4	73-E-9	60.8	0.134	1.4	0.82	
G2-5	73-E-10	53.6	0.118	1.6	0.93	
G2-6	73-E-11	80.0	0.176	7.1	4.14	
G3-1	73-E-12	57.8	0.127	0.2	0.12	
G3-2	73-E-13	48.4	0.107	0.6	0.35	
G3-3	73-E-14	67.6	0.149	BLD	BLD	
G3-4	73-E-15	50.6	0.112	BLD	BLD	
G3-5	73-E-16	45.4	0.100	0.1	0.06	
G3-6	73-E-17	108.7	0.239	12.0	7.0	
G4-1	73-E-18	53.3	0.118	0.1	0.349	
G4-2	73-E-19	50.4	0.111	BLD		
G4-3	73-E-20	52.0	0.115	BLD		
G4-4	73-E-21	46.4	0.102	BLD		
G4-5	73-E-22	54.0	0.119	3.1	1.81	
G4-6	73-E-23	52.2	0.115	1.7	0.99	
G5-1	73-E-24	75.5	0.166	0.1	0.06	
G5-2	73-E-25	64.9	0.043	BLD		
G5-3	73-E-26	70.5	0.155	BLD		
G5-4	73-E-27	80.1	0.177	BLD		
G6-1	73-E-28	43.4	0.096	0.5	0.29	
G6-2	73-E-29	31.7	0.070	BLD		
G6-3	73-E-30	49.3	0.109	BLD		

METHODS:

Au by GRC NO. 122



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Ray W. [Signature]
Chief Chemist

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 Millaquin House
 Herschel Street, Brisbane 4000
 Telephone 27320



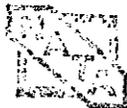
615127
CHEMICAL LABORATORY
 4th Floor Fed Comb House
 Roma Street, Brisbane 4000
 Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002550- PROJECT No. EL.6/68 - MATHINNA LONG GULLY CREEK
007356
 LAB. SHEET No. 1325/2 SAMPLE TYPE: CONCENTRATE DATE: 8th May, 1973

SAMPLE No.	LAB. No.	Wt gms	Wt lbs	Au ppm	Au dwt	Au oz/tn
G6-4	73-E-31	77.9	0.172	6.4	3.73	
G6-5	73-E-32	94.9	0.209	112	65.333	2.59
G7-1	73-E-33	46.6	0.103	0.1	0.06	
G7-2	73-E-34	48.5	0.107	0.7	0.41	
G7-3	73-E-35	69.5	0.153	2.2	1.20	
G7-4	73-E-36	57.3	0.126	0.1	0.06	
G7-5	73-E-37	41.8	0.092	BLD		
G8-1	73-E-38	53.9	0.119	BLD		
G8-2	73-E-39	66.1	0.146	0.1	0.06	
G8-3	73-E-40	49.5	0.109	0.1	0.06	
G8-4	73-E-41	66.4	0.146	4.3	2.51	
G8-5	73-E-42	71.0	0.157	0.1	0.06	
G8-6	73-E-43	45.0	0.099	0.9	0.53	
E1-1	73-E-44	71.3	0.157	0.1	0.06	
E1-2	73-E-45	77.6	0.071	BLD		
E1-3	73-E-46	104.0	0.229	BLD		
E2-1	73-E-47	77.7	0.171	BLD		
E2-2	73-E-48	55.3	0.122	BLD		
E2-3	73-E-49	68.4	0.151	BLD		
E2-4	73-E-50	77.8	0.172	17.3	10.000	0.503
E2-5	73-E-51	76.9	0.170	0.3	0.18	
E2-6	73-E-52	55.1	0.122	BLD		
E3-1	73-E-53	49.8	0.110	0.2	0.12	
E3-2	73-E-54	40.9	0.090	BLD		
E3-3	73-E-55	70.4	0.155	0.1	0.06	
E4-1	73-E-56	64.2	0.042	4.3	2.51	
E4-2	73-E-57	70.6	0.156	0.1	0.06	
E6-1	73-E-58	39.2	0.086	BLD		
E6-2	73-E-59	89.0	0.196	1.8	1.05	
E6-3	73-E-60	55.6	0.123	0.1	0.06	

METHODS:



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Ray W. Girdlestone

Chief Chemist

123

GEOCHEMICAL RESOURCES CONSULTANTS
 Millarquin House
 Herschel Street, Brisbane 4000
 Telephone 27320



615128
CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002550- PROJECT No. EL.G/GS - MATHINNA LONG GULLY CREEK
007350
 LAB. SHEET No. 1325/3 SAMPLE TYPE CONCENTRATE DATE 8th May, 1973

SAMPLE No.	LAB. No.	Wt gms	Wt lbs	Au ppm	Au dwt	Au oz/tr
E7-1	73-E-61	68.7	0.151	0.3	0.18	
E7-2	73-E-62	93.6	0.206	2.6	1.52	
E7-3	73-E-63	95.5	0.211	53 ³²²	30.921	54
E7-4	73-E-64	104.6	0.230	130 ⁴²⁵	75.833	783
E8-1	73-E-65	54.7	0.121	21 ¹⁵²	12.450	611
E8-2	73-E-66	60.8	0.134	7 ⁰⁷⁵	4.08	
E8-3	73-E-67	44.2	0.097	63 ⁴¹⁴	36.751	832
E8-4	73-E-68	66.3	0.146	0.5	0.29	
E9-2	73-E-69	54.8	0.121	16 ¹	9.330	466
E9-3	73-E-70	75.1	0.166	3.4	1.98	
E9-4	73-E-71	74.9	0.165	88 ⁷⁶⁰	51.332	559
E10-1	73-E-72	79.1	0.174	0.7	0.41	
E10-2	73-E-73	68.7	0.151	1.8	1.05	
E10-3	73-E-74	72.1	0.159	0.8	0.47	
E10-4	73-E-75	54.9	0.121	0.2	0.12	
E10-5	73-E-76	62.8	0.138	35 ¹⁹⁹	20.421	019
E11-1	73-E-77	62.3	0.137	8	4.67	
E11-2	73-E-78	70.6	0.156	1.5	0.88	
E11-3	73-E-79	80.0	0.176	BLD		
E11-4A	73-E-80	45.3	0.100	2.3	1.34	
E11-4B	73-E-81	96.7	0.213	2.7	1.58	
E11-5	73-E-82	67.5	0.149	3.6	2.10	
E11-6	73-E-83	79.7	0.176	104 ⁴²²	60.66	3.03
E12-1	73-E-84	47.9	0.106	0.6	0.35	
E12-2	73-E-85	78.3	0.173	17.5 ⁰⁷	10.210	509
E12-3	73-E-86	87.8	0.194	0.5	0.29	
E12-4	73-E-87	65.4	0.144	0.1	0.06	
E12-5	73-E-88	88.9	0.196	9.7	5.66	
E12-6	73-E-89	68.7	0.151	2.8	1.63	
E13-1	73-E-90	85.6	0.189	2.7	1.58	

METHODS:



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Ray W. [Signature]
 Chief Chemist

124

GEOCHEMICAL RESOURCES CONSULTANTS
 Millaquin House
 Herschel Street, Brisbane 4000
 Telephone 2 7320



615129
CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002550- PROJECT No. EL. 6/69 - MATHINNA LONG GULLY CREEK
007356
 LAB. SHEET No. 1325/4 SAMPLE TYPE CONCENTRATE DATE 8th May, 1973

SAMPLE No.	LAB. No.	WE gms	WE lbs	AU ppm	AU dwt	AU oz/tn
E13-2	73-E-91	53.2	0.117	11.4 ⁰⁵²	6.650	330
E13-3	73-E-92	54.8	0.121	1.4	0.82	
E13-4	73-E-93	84.5	0.186	3.3	1.92	
E14-1	73-E-94	55.7	0.123	0.1	0.06	
E14-2	73-E-95	62.9	0.139	10.5 ¹³²	6.120	306
E14-3	73-E-96	69.8	0.154	0.1	0.06	
E14-4	73-E-97	82.8	0.183	12.7 ¹¹⁹	7.290	364
E14-5	73-E-98	102.6	0.226	4.4	2.57	
E15-1	73-E-99	58.7	0.129	0.5	0.29	
E15-2	73-E-100	92.0	0.203	BLD		
E15-3	73-E-101	74.7	0.165	BLD		
E15-4	73-E-102	72.6	0.160	BLD		
E15-5	73-E-103	80.9	0.178	35 ¹⁹²	20.421	019
E16-1	73-E-104	42.3	0.093	0.1	0.06	
E16-2	73-E-105	86.2	0.190	1.4	0.82	
E16-3	73-E-106	72.6	0.160	BLD		
E17-1	73-E-107	61.8	0.136	2.3	1.34	
E17-2	73-E-108	57.9	0.128	BLD		
E17-3	73-E-109	80.7	0.178	232 ²⁰	135.336	751
E18-1	73-E-110	68.0	0.150	0.1	0.06	
E18-2	73-E-111	77.1	0.170	0.5	0.29	
E18-3	73-E-112	73.0	0.161	BLD		
E19-1	73-E-113	82.3	0.181	1.1	0.64	
E19-2	73-E-114	64.0	0.141	BLD		
E19-3	73-E-115	66.8	0.147	192 ¹¹²⁹	112.00	5.53
F1-1	73-E-116	69.9	0.154	BLD		
F1-2	73-E-117	48.6	0.107	1.4	0.82	
F1-3	73-E-118	53.0	0.117	0.1	0.06	
F1-4	73-E-119	60.8	0.134	1.1	0.64	
F1-5	73-E-120	89.6	0.198	0.1	0.06	

METHODS:



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Ray W. Macdonald
 Chief Chemist

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GEOPHOTO RESOURCES CONSULTANTS
 Millaquin House
 Herschel Street, Brisbane 4000
 Telephone 27320



615130
CHEMICAL LABORATORY
 4th Floor Red Camp House
 Roma Street, Brisbane 4000
 Telephone 21 8875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 002550- PROJECT No. EL.6/68 - MATHINNA LONG GULLY CREEK
007350
 LAB. SHEET No. 1325/5 SAMPLE TYPE CONCENTRATE DATE 8th May, 1973

SAMPLE No.	LAB. No.	Wt gms	Wt lbs	Au ppm	Au dwg	Au oz/tn
F1-6	73-E-121	112.0	0.246	0.7	0.41	
F1-7	73-E-122	93.1	0.205	BLD		
D1-1	73-E-123	54.9	0.121	0.9	0.53	
D1-2	73-E-124	45.8	0.101	BLD		
D1-3	73-E-125	45.6	0.101	BLD		
D1-4	73-E-126	68.1	0.150	BLD		
D1-5	73-E-127	54.7	0.121	BLD		
D1-6	73-E-128	55.6	0.123	BLD		
D2-1	73-E-129	55.9	0.123	BLD		
D2-2	73-E-130	47.8	0.105	0.4	0.23	
D3-1	73-E-131	33.5	0.074	BLD		
D3-2	73-E-132	50.5	0.111	BLD		
D3-3	73-E-133	54.0	0.119	18.5	10.790	0.538
D4-1	73-E-134	48.9	0.108	4.0	2.33	
D4-2	73-E-135	74.7	0.165	BLD		
D4-3	73-E-136	41.1	0.091	BLD		

METHODS:



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Chief Chemist

Ray W. Paul

126

ENVIRONMENTAL RESOURCES CONSULTANTS
Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



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615131

CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007357 PROJECT No. EL.6/68 - MATHINNA
LAB. SHEET No. 1330/1 SAMPLE TYPE: CONCENTRATE DATE: 11th May, 1973

SAMPLE No.	LAB. No.	AU		WE		
		ppm	DWT	gms	lbs	
C4 - 1	73-E-579	BLD		36.10	0.080	
C4 - 2	73-E-580	BLD		49.70	0.110	
C4 - 3	73-E-581	0.2	0.12	57.60	0.127	
C4 - 4	73-E-582	0.2	0.12	51.10	0.113	
C4 - 5	73-E-583	23.9	14.00	698	55.70	0.123
C4 - 6	73-E-584	25.6	15.170	757	54.90	0.121
C5 - 1	73-E-585	0.1	0.06	43.50	0.096	
C5 - 2	73-E-586	BLD		49.30	0.109	
C5 - 3	73-E-587	BLD		35.40	0.078	
C5 - 4	73-E-588	BLD		48.90	0.108	
C5 - 5	73-E-589	BLD		35.40	0.078	
C5 - 6	73-E-590	BLD		60.20	0.133	
C6 - 1	73-E-591	BLD		43.90	0.097	
C6 - 2	73-E-592	1.7	0.99	53.40	0.118	
C6 - 3	73-E-593	2.3	1.34	42.80	0.094	
C6 - 4	73-E-594	13.7	8.170	407	52.20	0.115
C7 - 1	73-E-595	BLD		48.90	0.108	
C7 - 2	73-E-596	0.2	0.12	49.70	0.110	
C7 - 3	73-E-597	BLD		57.20	0.126	
C7 - 4	73-E-598	BLD		47.70	0.105	
C7 - 5	73-E-599	1.3	0.76	30.90	0.068	
C7 - 6	73-E-600	BLD		45.80	0.100	
C7 - 7	73-E-601	BLD		50.20	0.111	
C7 - 8	73-E-602	0.1	0.06	56.20	0.124	
C8 - 1	73-E-603	BLD		73.30	0.162	
C8 - 2	73-E-604	BLD		44.50	0.098	
C8 - 3	73-E-605	BLD		71.80	0.158	

METHODS:

Au by GRC NO. 122
DWT = Pennyweight per short ton
OZS = Ounces per short ton



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Chief Chemist *Ray W. [Signature]*

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615132

GEOTECHNICAL RECORDS CONSULTANTS

Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY

4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

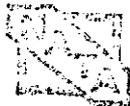
GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007357 - 8 PROJECT No. EL.6/68 - MATHINNA

LAB. SHEET No. 1330/2 SAMPLE TYPE: CONCENTRATE DATE: 11th May, 1973

SAMPLE No.	LAB. No.	AU			WE	
		ppm	DWT	gzs	gms	lbs
C8 - 4	73-E-606	BLD			47.50	105
C8 - 5	73-E-607	BLD			47.10	104
C8 - 6	73-E-608	BLD			80.20	176
C9 - 1	73-E-609	BLD			53.00	117
C9 - 2	73-E-611	1.40	0.82		42.20	094
C9 - 3	73-E-612	BLD			54.30	120
C9 - 4	73-E-613	0.1	0.06		50.50	111
C9 - 5	73-E-614	0.1	0.06		37.20	082
C9 - 6	73-E-615	BLD			57.60	127
C9 - 7	73-E-616	4.9	2.86		44.70	099
C9 - 8	73-E-617	23.6	14.00	0.698	44.20	097
C10 - 1	73-E-618	0.5	0.29		53.10	117
C10 - 2	73-E-619	0.5	0.29		39.00	086
C10 - 3	73-E-620	BLD			55.70	123
C10 - 4	73-E-621	2.1	1.23		47.60	105
C11 - 1	73-E-622	1.8	1.05		41.10	091
C11 - 2	73-E-623	BLD			67.70	149
C11 - 3	73-E-624	10.9	6.42	0.320	66.40	146
C11 - 4	73-E-625	BLD			52.60	116
C11 - 5	73-E-626	0.1	0.06		60.40	133
C11 - 6	73-E-627	BLD			50.10	110
C12 - 1	73-E-628	BLD			32.20	071
C12 - 2	73-E-629	BLD			33.70	074
C12 - 3	73-E-630	0.1	0.06		48.90	108
C13 - 1	73-E-631	BLD			39.20	086
C13 - 2	73-E-632	0.4	0.23		44.90	099
C13 - 3	73-E-633	7.9	4.61		52.00	115

METHODS:



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Ray W. [Signature]

Chief Chemist

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GEOCHEMICAL RESOURCES CONSULTANTS
Milloquin House
Herschel Street, Brisbane 4000
Telephone 27320



615133
CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007359 PROJECT No. EL.6/68 - MATHINNA

LAB. SHEET No. 1330/3 SAMPLE TYPE: CONCENTRATE DATE: 11th May, 1973

SAMPLE No.	LAB. No.	Au		Au	WT	WT
		ppm	DWT			
D5 - 1	73-E-634	0.1	0.06			51.10.113
D5 - 2	73-E-635	BLD				38.40.085
D5 - 3	73-E-636	0.6	0.35			64.50.143
D5 - 4	73-E-637	15.1	8.750	0.437	123	58.40.129
D7 - 1	73-E-638	1.1	0.64			59.20.131
D7 - 2	73-E-639	0.2	0.12			45.70.100
D7 - 3	73-E-640	1.3	0.76			46.40.103
D8 - 1	73-E-641	BLD				54.10.119
D8 - 2	73-E-642	0.5	0.29			92.80.205
D8 - 3	73-E-643	1.0	0.58			46.60.108
D8 - 4	73-E-644	0.5	0.29			54.00.119
D9 - 1	73-E-645	BLD				47.40.105
D9 - 2	73-E-646	0.1	0.06			45.80.101
D9 - 3	73-E-647	0.4	0.23			66.00.146
D9 - 4	73-E-648	12472	3333.608	1.06		54.50.120
D11 - 1	73-E-649	0.1	0.06			57.20.126
D11 - 2	73-E-650	10.0	5.830	0.291		43.00.095
D11 - 3	73-E-651	37.321	581.077	0.453		61.30.135
D12 - 1	73-E-652	8045	562.328	0.92		84.20.186
D12 - 2	73-E-653	0.3	0.18			40.10.090
D12 - 3	73-E-654	62	35.01	0.746	366	42.70.094
D12 - 4	73-E-655	5.9	3.44			36.40.080
D14 - 1	73-E-656	0.2	0.12			63.60.140
D14 - 2	73-E-657	4.9	2.86			55.20.122

METHODS:



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Ray W. Girdlestone

Chief Chemist

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GEOPHYSICAL RESEARCH CONSULTANTS
 Millers Point House
 Herschel Street, Brisbane 4000
 Telephone 27320



615134
CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 213875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. DD7359/60 PROJECT No. EL.6/68 - MATHINNA

LAB. SHEET No. 1330/4 SAMPLE TYPE CONCENTRATE DATE 11th May, 1973

SAMPLE No.	LAB. No.	AU ppm	AU DWT	AU ozs	WT gms	WT lbs
D15 - 1	73-E-658	0.5	0.29		42.10	0.093
D15 - 2	73-E-659	BLD			54.70	0.121
D15 - 3	73-E-660	BLD			64.30	0.142
D15 - 4	73-E-661	12170	7.78	3.52	634 70.50	0.155
D16 - 1	73-E-662	0.5	0.29		42.30	0.093
D16 - 2	73-E-663	12.7	7.290	3.64	082 44.10	0.097
D16 - 3	73-E-664	9.2	5.37		056 50.90	0.112
D17 - 1	73-E-665	1.8	1.05		37.70	0.083
D17 - 2	73-E-666	0.1	0.06		46.20	0.102
D17 - 3	73-E-667	0.1	0.06		47.90	0.106
D18 - 1	73-E-668	0.7	0.41		46.30	0.102
D18 - 2	73-E-669	0.3	0.18		53.70	0.116
D18 - 3	73-E-670	1.0	0.58		55.30	0.122
D19 - 1	73-E-671	BLD			41.20	0.091
D19 - 2	73-E-672	0.6	0.35		58.40	0.129
D19 - 3	73-E-673	13.9	8.170	4.07	083 55.40	0.122
D20 - 1	73-E-674	0.2	0.12		61.40	0.135
D20 - 2	73-E-675	0.4	0.23		35.60	0.079
D20 - 3	73-E-676	1.3	0.76		42.10	0.093
D21 - 1	73-E-677	BLD			47.80	0.105
D21 - 2	73-E-678	1.9	1.11		42.40	0.093
D21 - 3	73-E-679	BLD			52.50	0.116
D22 - 1	73-E-680	0.1	0.06		47.40	0.105
D22 - 2	73-E-681	BLD			54.40	0.120
D22 - 3	73-E-682	3.2	1.87		47.90	0.106
D22 - 4	73-E-683	27.7	16.33		157 54.40	0.120

METHODS:



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Chief Chemist

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615135

GEOTECHNICAL RESOURCES CONSULTANTS
Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3675

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007361-02 PROJECT No. EL.6/68 - MATHINNA

LAB. SHEET No. 1330/5 SAMPLE TYPE: CONCENTRATE DATE: 11th May, 1973

SAMPLE No.	LAB. No.	Au			Wt			
		ppm	DWT	ozs	gms	lbs.		
D23 - 1	73-E-684	0.2	0.12		60.70	1.34		
D23 - 2	73-E-685	1.7	0.99		55.70	1.23		
A11 - 1	73-E-686	0.8	0.47		32.20	0.71		
A11 - 2	73-E-687	0.1	0.06		43.80	0.97		
A11 - 3	73-E-688	5.7	3.32		61.80	1.36		
A11 - 4	73-E-689	15.7	9.330	466	45.20	1.00		
A12 - 1	73-E-690	0.2	0.12		49.60	1.09		
A12 - 2	73-E-691	BLD			59.40	1.31		
A12 - 3	73-E-692	1.8	1.05		39.10	0.86		
B18 - 1	73-E-693	0.1	0.06		22.30	0.49		
B18 - 2	73-E-694	8.1	4.72		40.10	0.88		
E9 - 1	73-E-695	BLD			90.10	1.99		
B9 - 3	73-E-696	2.7	1.58		60.50	1.33		
B10 - 1	73-E-697	BLD			40.50	0.89		
B10 - 2	73-E-698	BLD			72.40	1.60		
B10 - 3	73-E-699	0.1	0.06		54.60	1.20		
B10 - 4	73-E-700	0.1	0.06		34.40	0.76		
B10 - 5	73-E-701	2.3	1.34		53.00	1.17		
B11 - 1	73-E-702	0.7	0.41		46.40	1.02		

METHODS:



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Chief Chemist *Ray W. [Signature]*

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GEOCHEMICAL RESEARCH CONSULTANTS
Mulligan House
Herschel Street, Brisbane 4000
Telephone 27323



B11-817

FA

615136

CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 213875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007362 PROJECT No. EL.6/68 - MATHINNA

LAB. SHEET No. 1331/1 SAMPLE TYPE: CONCENTRATE DATE: 15th May, 1973

SAMPLE No.	LAB. No.	Au			WT	
		ppm	DWT	ozs	gms	lbs
B11 - 3	73-E-703	0.1	0.06		41.20	0.091
B11 - 4	73-E-704	BLD			55.00	0.121
B11 - 5	73-E-705	0.1	0.06		43.80	0.097
B12 - 1	73-E-706	BLD			49.90	0.110
B12 - 2	73-E-707	BLD			27.90	0.062
B12 - 3	73-E-708	0.7	0.41		28.60	0.063
B13 - 4	73-E-709	BLD			34.40	0.076
B13 - 5	73-E-710	BLD			34.00	0.077
B13 - 6	73-E-711	2.2	1.28		24.70	0.054
B13 - 7	73-E-712	250	145.8	7.27	19.70	0.043
B14 - 3	73-E-713	BLD			43.60	0.096
B14 - 4	73-E-714	BLD			47.50	0.105
B14 - 5	73-E-715	1.6	0.93		42.90	0.095
B14 - 6	73-E-716	0.1	0.06		49.80	0.110
B15 - 1	73-E-717	BLD			38.00	0.084
B15 - 2	73-E-718	BLD			35.70	0.079
B15 - 3	73-E-719	0.1	0.06		25.00	0.055
B15 - 4	73-E-720	BLD			33.10	0.073
B15 - 5	73-E-721	0.1	0.06		27.00	0.060
B15 - 6	73-E-722	10.5	6.12	0.29	34.20	0.075
B16 - 1	73-E-723	BLD			45.60	0.101
B16 - 2	73-E-724	BLD			30.80	0.068
B16 - 3	73-E-725	BLD			36.80	0.081
B16 - 4	73-E-726	BLD			37.40	0.083
B16 - 5	73-E-727	BLD			27.30	0.060
B16 - 6	73-E-728	BLD			20.90	0.046

METHODS: Au by GRC NO. 122

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DWT = Pennyweight per short ton
OZS = Ounces per short ton

for Chief Chemist

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615137

DELAIDIO RESOURCES CONSULTANTS
 Millaquin House
 Herschel Street, Brisbane 4000
 Telephone 27320



CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 213875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007362/3 PROJECT No.: EL.6/68 - MATHINNA

LAB. SHEET No.: 1331/2 SAMPLE TYPE: CONCENTRATE DATE: 15th May, 1973

SAMPLE No.	LAB. No.	Au	Au	Au	Wt	Wt		
		ppm	DWT	ozs	gms	lbs		
B17 - 1	73-E-729	6.5	3.79		37.40	0.082		
B17 - 2	73-E-730	5.5	3.21		51.30	0.113		
B17 - 3	73-E-731	BLD			42.20	0.093		
B17 - 4	73-E-732	0.1	0.06		44.50	0.098		
B17 - 5	73-E-733	BLD			41.90	0.092		
F4 - 1	73-E-734	0.1	0.06		41.30	0.091		
F4 - 2	73-E-735	0.2	0.12		32.70	0.072		
F4 - 3	73-E-736	6.5	3.79		49.60	0.109		
F4 - 4	73-E-737	0.1	0.06		25.90	0.057		
F4 - 5	73-E-738	5.0	2.92		35.00	0.077		
F4 - 6	73-E-739	BLD			33.20	0.073		
F4 - 7	73-E-740	5.8	3.38		51.60	0.114		
F4 - 8	73-E-741	0.6	0.35		46.00	0.101		

METHODS:



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[Handwritten Signature]
 Chief Chemist

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615138

GEOPHOTO RESOURCES CONSULTANTS
Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007310 PROJECT No.: EL 6-68 MATHINNA: BLACK HORSE GULLY
BACKHOE
LAB. SHEET No.: 1381/1 SAMPLE TYPE: CONCENTRATE DATE: 16-7-73

SAMPLE No.	LAB. No.	Au ppm	Wt gms	Wt lbs
H1 - 1	73-G-327	BLD	27.2	0.060
H1 - 2	73-G-328	BLD	25.2	0.056
H1 - 3	73-G-329	BLD	33.7	0.074
H2 - 1	73-G-330	BLD	28.2	0.062
H2 - 2	73-G-331	0.9	37.9	0.084
H3 - 1	73-G-332	0.1	39.9	0.088
H3 - 2	73-G-333	35.5	31.3	0.069
H4 - 1	73-G-334	BLD	71.2	0.157
H4 - 2	73-G-335	2.0	50.8	0.112
H5 - 1	73-G-336	BLD	31.2	0.069
H5 - 2	73-G-337	BLD	52.2	0.115
H6 - 1	73-G-338	0.6	50.3	0.111
H6 - 2	73-G-339	4.5	34.3	0.076
H7 - 1	73-G-340	0.9	37.8	0.083
H7 - 2	73-G-341	25.5	35.1	0.077
H9 - 1	73-G-342	0.1	30.3	0.067
H9 - 2	73-G-343	13.5	31.9	0.070
H9 - 3	73-G-344	60.0	36.0	0.079
H10- 1	73-G-345	0.4	35.3	0.078
H10- 2	73-G-346	BLD	40.4	0.089
I1 - 1	73-G-347	BLD	29.3	0.065
I1 - 2	73-G-348	BLD	50.8	0.112
I4 - 1	73-G-349	8.9	39.1	0.086
I5 - 1	73-G-350	16.5	37.8	0.083
I5 - 2	73-G-351	75.0	35.1	0.077
I6 - 2	73-G-352	BLD	33.1	0.073
I3 - 1	73-G-353	0.3	32.6	0.072
I3 - 2	73-G-354	BLD	64.1	0.141
I2 - 1	73-G-355	0.8	37.9	0.084
I2 - 2	73-G-356	10.0	34.3	0.076

METHODS: Au by GRC No. 122



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Ray W. Gledhill
Chief Chemist

Chief Chemist

GEOPHOTO RESOURCES CONSULTANTS
 Millaquin House
 Herschel Street, Brisbane 4000
 Telephone 2 7320



CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007310/11 PROJECT No.: EL 6-68 MATHINNA: BLACK HORSE GULLY
 BACKHOE
 LAB. SHEET No.: 1381/2 SAMPLE TYPE: CONCENTRATE DATE: 15-7-73

SAMPLE No.	LAB. No.	Au ppm	Wt gms	Wt lbs
I2 - 3	73-G-357	15.5	37.8	0.083
J1 - 1	73-G-358	1.4	40.3	0.089
J1 - 2	73-G-359	0.5	29.3	0.065
J2 - 1	73-G-360	6.0	25.5	0.056
J2 - 2	73-G-361	BLD	27.8	0.061
J2 - 3	73-G-362	3.4	29.9	0.066
J3 - 1	73-G-363	BLD	38.2	0.084
J3 - 2	73-G-364	BLD	61.3	0.135
J3 - 3	73-G-365	18.5	36.4	0.080
J4 - 1	73-G-366	0.2	38.8	0.086
J4 - 2	73-G-367	3.5	33.3	0.073
J6 - 1	73-G-368	0.4	37.4	0.082
J6 - 2	73-G-369	12.5	64.9	0.143
J6 - 3	73-G-370	5.4	35.9	0.079
J8 - 1	73-G-371	1.1	31.0	0.068
J9 - 1	73-G-372	BLD	39.2	0.086
J9 - 2	73-G-373	1.4	38.3	0.084
J10- 1	73-G-374	2.0	31.8	0.070
J10- 2	73-G-375	BLD	39.2	0.066
K1 - 1	73-G-376	0.3	39.3	0.087
K2 - 1	73-G-377	BLD	37.6	0.083
K3 - 1	73-G-378	0.3	37.0	0.082
K5 - 1	73-G-379	1.8	34.0	0.075
K6 - 1	73-G-380	0.3	40.1	0.088
K6 - 2	73-G-381	4.9	72.7	0.160
K8 - 1	73-G-382	1.1	38.7	0.085
K8 - 2	73-G-383	15.5	67.3	0.148
K8 - 3	73-G-384	36.0	31.1	0.069
K9 - 1	73-G-385	9.1	35.8	0.079
K9 - 2	73-G-386	0.5	37.2	0.082

METHODS:



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Ray W. [Signature]

Chief Chemist

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615140

GEOPHOTO RESOURCES CONSULTANTS
Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007311 PROJECT No.: EL 6-68 MATHINNA: BLACK HOBSE GULLY BACKHOE
LAB. SHEET No.: 1381/3 SAMPLE TYPE: CONCENTRATE DATE: 16-7-73

SAMPLE No.	LAB. No.	Au ppm	Wt					
			gms	lbs				
K10- 1	73-G-387	8LD	21.1	0.047				
K10- 3	73-G-388	10.6	26.0	0.057				

METHODS:



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Ray W. [Signature]

Chief Chemist

GEOPHOTO RESOURCES CONSULTANTS
 Millaquin House
 Herschel Street, Brisbane 4000
 Telephone 2 7320



CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007313/15 PROJECT No. EL 6/68 - MATHINNA BLACK HORSE GULLY
 BACKHOE
 LAB. SHEET No. 139c/1 SAMPLE TYPE: CONCENTRATE DATE: 3/8/73

SAMPLE No.	LAB. No.	Au ppm	Ozs	Grams	Lbs
H - 11 - 1	73-G-777	BLD		21.3	0.047
H - 11 - 2	73-G-778	0.3		29.4	0.065
H - 12 - 1	73-G-779	1.1		32.5	0.072
H - 12 - 2	73-G-780	BLD		33.1	0.073
H - 13 - 1	73-G-781	BLD		29.2	0.064
H - 13 - 2	73-G-782	7.1		37.5	0.083
H - 14 - 1	73-G-783	0.4		28.4	0.063
H - 14 - 2	73-G-784	2.2		36.9	0.081
H - 15 - 1	73-G-785	BLD		28.3	0.062
H - 15 - 2	73-G-786	4.3		37.3	0.082
H - 16 - 1	73-G-787	6.8		37.8	0.083
H - 16 - 2	73-G-788	0.1		35.9	0.079
H - 16 - 3	73-G-789	0.5		40.1	0.088
H - 17 - 1	73-G-790	16.3	0.48	37.6	0.083
H - 17 - 2	73-G-791	BLD		36.0	0.079
H - 17 - 3	73-G-792	1.0		35.6	0.079
H - 18 - 1	73-G-793	BLD		26.9	0.059
H - 18 - 2	73-G-794	1.9		34.9	0.077
H - 18 - 3	73-G-795	BLD		24.2	0.053
H - 18 - 4	73-G-796	BLD		26.6	0.059
H - 19 - 1	73-G-797	5.1		12.8	0.028
H - 19 - 2	73-G-798	BLD		27.8	0.061
H - 19 - 3	73-G-799	BLD		7.9	0.017
H - 20 - 1	73-G-800	0.2		25.7	0.057
H - 20 - 2	73-G-801	2.0		16.5	0.034
H - 20 - 3	73-G-802	0.1		39.8	0.088
H - 21 - 3	73-G-803	BLD		27.1	0.060
H - 21 - 4	73-G-804	220	6.40	9.6	0.021
H - 22 - 1	73-G-805	6.1		37.6	0.083
H - 22 - 3	73-G-806	0.5		11.4	0.025

METHODS: Au by CRC No. 122

Ozs = Ozs per short ton of 2,000 lbs.



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Chief Chemist *Ray W. [Signature]*

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GEOPHOTO RESOURCES CONSULTANTS
Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



615142
CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007313/15 PROJECT No. EL 6/68 MATHINNA BLACK HORSE GULLY
BACK HOE
LAB. SHEET No. 137c/2 SAMPLE TYPE CONCENTRATE DATE 3/8/73

SAMPLE No.	LAB. No.	Au ppm	Ozs	Grams	Lbs
H - 23 - 1	73-G-807	15.5	0.45	36.2	0.080
I - 9 - 2	73-G-808	0.1		24.3	0.054
I - 13 - 1	73-G-809	0.2		28.1	0.062
I - 13 - 2	73-G-810	BLD		20.7	0.046
L - 6 - 1	73-G-811	0.1		29.4	0.065
L - 7 - 1	73-G-812	5.6		23.2	0.051
L - 7 - 2	73-G-813	12.3	0.36	18.0	0.040
L - 8 - 1	73-G-814	0.7		17.4	0.038
L - 9 - 1	73-G-815	14.5	0.42	30.0	0.066
L - 10 - 1	73-G-816	0.1		32.6	0.072
L - 11 - 1	73-G-817	BLD		33.5	0.074
L - 14 - 1	73-G-818	2.7		19.1	0.042
L - 14 - 2	73-G-819	0.8		20.7	0.046
L - 15 - 1	73-G-820	12.0	0.35	26.2	0.058
L - 15 - 2	73-G-821	1.9		28.9	0.064
L - 17 - 1	73-G-822	BLD		37.0	0.082
L - 18 - 2	73-G-823	BLD		37.0	0.082
L - 19 - 2	73-G-824	BLD		34.4	0.076
L - 20 - 1	73-G-825	0.2		29.6	0.065
L - 21 - 2	73-G-826	0.7		13.0	0.029
L - 22 - 1	73-G-827	BLD		26.2	0.058
L - 24 - 1	73-G-828	1.4		36.6	0.081
L - 24 - 2	73-G-829	BLD		28.6	0.063
L - 25 - 1	73-G-830	BLD		15.8	0.035
L - 26 - 2	73-G-831	BLD		39.3	0.087
HC- 11 - 1	73-G-832	0.1		10.2	0.022
HC- 11 - 2	73-G-833	BLD		20.4	0.045
HC- 11 - 3	73-G-834	0.1		27.0	0.060
HC- 11 - 4	73-G-835	0.5		22.8	0.050
HC- 15 - 2	73-G-836	4.2		29.6	0.065

METHODS:



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Chief Chemist

Ray W. [Signature]

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GEOCHEMICAL RESOURCES CONSULTANTS

Millarquin House
Herschel Street, Brisbane 4000
Telephone 27320



615143
CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007316 PROJECT No.: EL 6/68 MAIHINNA BLACK HORSE GULLY
BACK HOE
LAB. SHEET No.: 1390/3 SAMPLE TYPE: CONCENTRATE DATE: 3/8/73

SAMPLE No.	LAB. No.	Au PPM	Ozs	Grams	Lbs.
HC- 15 - 3	73-G-837	1.8		23.8	0.052
HC- 15 - 4	73-G-838	0.4		30.2	0.067
HC- 19 - 4	73-G-839	8LD		26.3	0.058
HC- 19 - 5	73-G-840	715	20.8	17.9	0.039
HC- 19 - 6	73-G-841	110	3.20	39.0	0.086
HC- 19 - 7	73-G-842	1.2		34.9	0.077

METHODS:



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Chief Chemist

Ray W. [Signature]

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GEOPHOTO RESOURCES CONSULTANTS

Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



615144

CHEMICAL LABORATORY
4th Floor Red Comb House
Roma Street, Brisbane 4000
Telephone 213875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007317 PROJECT No.: EL 6-68 MATHINNA: BLACK HORSE GULLY

LAB. SHEET No.: 1397/1 SAMPLE TYPE: DRILL CORE DATE: 9th August, 1973.

SAMPLE No.	LAB. No.	Au ppm	Au Ozs	Weight Gms	weight lbs
I 7 - 1	73-H- 94	BLD		21.3	0.047
I 7 - 2	73-H- 95	62.0	1.77	24.9	0.055
I 8 - 1	73-H- 96	BLD		21.9	0.048
I 8 - 2	73-H- 97	11.7		32.6	0.072
I 8 - 3	73-H- 98	36.0	1.05	23.4	0.052
I 9 - 1	73-H- 99	0.2		20.4	0.045
I10 - 1	73-H-100	BLD		27.5	0.061
I10 - 2	73-H-101	3.2		23.2	0.051
I11 - 1	73-H-102	0.3		36.0	0.079
I11 - 2	73-H-103	10.7		28.9	0.064
I12 - 1	73-H-104	45.0	1.31	29.6	0.065
I13 - 3	73-H-105	6.9		19.7	0.043
I13 - 4	73-H-106	5.7		17.1	0.038
I14 - 1	73-H-107	3.2		16.4	0.036
I14 - 2	73-H-108	1.0		19.7	0.043
I14 - 3	73-H-109	BLD		21.8	0.048
I14 - 4	73-H-110	110.0	3.20	21.3	0.047
I15 - 1	73-H-111	2.1		18.6	0.041
I15 - 2	73-H-112	5.3		24.5	0.054
I15 - 3	73-H-113	75.0	2.18	17.3	0.038
I15 - 4	73-H-114	305.0	8.87	27.2	0.060
I16 - 1	73-H-115	4.2		34.5	0.076
I16 - 2	73-H-116	BLD		17.2	0.038
K11 - 1	73-H-117	2.3		34.0	0.075
K12 - 1	73-H-118	1.0		21.4	0.047
K12 - 2	73-H-119	3.1		22.0	0.048
K12 - 3	73-H-120	15.2		13.7	0.030
K12 - 4	73-H-121	105.0	3.05	9.1	0.020
K13 - 1	73-H-122	0.8		23.8	0.052
K13 - 2	73-H-123	0.8		21.2	0.047

METHODS: Au by GRC No.122

Au ozs \equiv ozs per short ton of 2,000 lbs.



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Chief Chemist

Ray W. ...

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615145

GEOCHEMICAL RESOURCES CONSULTANTS
 Millaquin House
 Herschel Street, Brisbane 4000
 Telephone 27320



CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007317/18 PROJECT No.: EL 6-68 MATHINNA: BLACK HORSE GULLY

LAB. SHEET No.: 1397/2 SAMPLE TYPE: DRILL CORE DATE: 9th August, 1973

SAMPLE No.	LAB. No.	Au		Weight	
		ppm	Ozs.	Gms.	Lbs.
K14 - 1	73-H-124	2.0		22.0	0.048
K15 - 1	73-H-125	BLD		28.0	0.062
K15 - 2	73-H-126	BLD		22.9	0.050
K15 - 3	73-H-127	0.9		18.9	0.042
K15 - 4	73-H-128	1.1		19.9	0.044
K16 - 1	73-H-129	1.6		25.5	0.056
K16 - 2	73-H-130	7.0		21.6	0.048
K16 - 3	73-H-131	23.0	0.67	20.1	0.044
K16 - 4	73-H-132	33.0	0.96	29.2	0.064
K17 - 1	73-H-133	7.6		19.0	0.042
K17 - 2	73-H-134	14.0		14.4	0.032
K17 - 3	73-H-135	42.0	1.22	26.6	0.059
K17 - 4	73-H-136	66.0	1.92	25.0	0.055
K17 - 5	73-H-137	20.0	0.58	29.6	0.065
K18 - 1	73-H-138	6.6		21.5	0.047
K18 - 2	73-H-139	BLD		28.8	0.063
K18 - 3	73-H-140	BLD		30.3	0.087
K18 - 4	73-H-141	BLD		20.8	0.055
K19 - 1	73-H-142	1.2		17.4	0.038
K19 - 2	73-H-143	0.3		31.9	0.070
K19 - 3	73-H-144	16.0		24.0	0.053
K20 - 1	73-H-145	2.9		16.8	0.037
K20 - 2	73-H-146	7.2		18.9	0.042
K21 - 1	73-H-147	0.4		15.8	0.035
K21 - 2	73-H-148	BLD		18.1	0.040
L 2 - 1	73-H-149	BLD		21.2	0.047
L 2 - 2	73-H-150	0.6		15.0	0.033
L 2 - 3	73-H-151	BLD		24.1	0.053
L 3 - 1	73-H-152	57.0	1.66	27.2	0.060
L 3 - 2	73-H-153	0.4		23.6	0.052

METHODS:



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Ray W. M. [Signature]

Chief Chemist

GEOPHOTO RESOURCES CONSULTANTS
 Millaquin House
 Herschel Street, Brisbane 4000
 Telephone 27320



CHEMICAL LABORATORY
 4th Floor Red Comb House
 Roma Street, Brisbane 4000
 Telephone 21 3875

GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No. 007318 PROJECT No. EL 6-68 MATHINNA: BLACK HORSE GULLY

LAB. SHEET No. 1397/3 SAMPLE TYPE: DRILL CORF DATE: 9th August, 1973.

SAMPLE No.	LAB. No.	Au ppm	Au Ozs	Weight Gms.	Weight Lbs.
L 4 - 1	73-H-154	BLD		16.8	0.037
L 4 - 3	73-H-155	0.3		21.3	0.047
L 5 - 1	73-H-156	BLD		25.9	0.057
L 5 - 2	73-H-157	0.1		26.4	0.059
L16 - 1	73-H-158	18.9		25.5	0.056
L16 - 2	73-H-159	BLD		24.8	0.055
L18 - 1	73-H-160	BLD		20.8	0.046
L19 - 1	73-H-161	BLD		10.5	0.023
L21 - 1	73-H-162	2.5		23.3	0.051
L23 - 1	73-H-163	BLD		12.5	0.028
L22 - 2	73-H-164	1.1		20.6	0.045
L25 - 2	73-H-165	10.0		28.1	0.062
L26 - 1	73-H-166	0.1		31.1	0.069
H21 - 1	73-H-167	BLD		38.7	0.085
H21 - 2	73-H-168	BLD		27.0	0.060
H22 - 2	73-H-169	BLD		31.3	0.069
H23 - 2	73-H-170	BLD		20.2	0.045
L13 - 1	73-H-171	4.9		23.1	0.051
L13 - 2	73-H-172	125.0	3.63	28.4	0.063
L 4 - 2	73-H-173	3.4		15.6	0.034
K13 - 3	73-H-174	0.1		25.4	0.056

METHODS:



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Chief Chemist

Ray W. Gearty

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Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320



4th Floor Rec Com. House
Roma Street, Brisbane 4000
Telephone 21 3875

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007312 PROJECT No.: EL 6-68 MATHINNA: DANS RIVULET
BACKHOE

LAB. SHEET No.: 1381/4 SAMPLE TYPE: CONCENTRATE DATE: 16-7-73

SAMPLE No.	LAB. No.	Au ppm	Wt Gms	Wt Lbs
A1 - 1	73-G-389	BLD	27.7	0.061
A1 - 2	73-G-390	BLD	37.6	0.083
A1 - 3	73-G-391	BLD	36.8	0.081
A2 - 1	73-G-392	BLD	35.8	0.079
A2 - 2	73-G-393	0.6	37.1	0.082
A2 - 3	73-G-394	BLD	38.0	0.084
A2 - 4	73-G-395	BLD	38.2	0.084
A3 - 1	73-G-396	BLD	36.4	0.080
A3 - 2	73-G-397	BLD	38.5	0.085
A3 - 3	73-G-398	1.0	38.7	0.085
A3 - 4	73-G-399	BLD	41.6	0.092
A3 - 5	73-G-400	BLD	36.9	0.081
B1 - 1	73-G-401	0.2	30.9	0.068
B1 - 2	73-G-402	BLD	27.8	0.061
B1 - 3	73-G-403	BLD	32.6	0.072
B1 - 4	73-G-404	BLD	36.2	0.080
B1 - 5	73-G-405	BLD	23.5	0.052
B2 - 1	73-G-406	BLD	32.2	0.071
B2 - 2	73-G-407	BLD	35.4	0.078
B2 - 3	73-G-408	BLD	25.7	0.057
A5 - 1	73-G-409	BLD	28.6	0.063
A5 - 2	73-G-410	BLD	47.8	0.105
A5 - 3	73-G-411	4.1	33.1	0.073
A5 - 4	73-G-412	BLD	36.0	0.079
SP - 1	73-G-413	5.5	32.7	0.072
SP - 2	73-G-414	BLD	34.6	0.076

METHODS: Au by GRC NO. 122

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Telephone 27320



Roma Street, Brisbane 4000
Telephone 213075

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GEOCHEMICAL LABORATORY REPORT

FIELD SHEET No.: 007316 PROJECT No.: EL 6/68 MATHINNA DANS RIVULET
CABLE TOOL
LAB. SHEET No.: 139c/k SAMPLE TYPE: CONCENTRATE DATE: 3/8/73

SAMPLE No.	LAB. No.	Au ppm	Ozs.	Grams	Lbs.
A - 7 - 1	73-G-843	0.4		19.5	0.043
A - 7 - 2	73-G-844	1.6		29.4	0.065
A - 7 - 3	73-G-845	0.1		25.7	0.057
A - 8 - 1	73-G-846	0.6		15.8	0.035
A - 8 - 2	73-G-847	BLD		32.3	0.071
A - 8 - 3	73-G-848	BLD		33.8	0.075
A - 8 - 4	73-G-849	6.2		20.7	0.046
A - 8 - 5	73-G-850	0.1		17.6	0.039
A - 8 - 6	73-G-851	20.6	0.59	29.2	0.064
A - 9 - 1	73-G-852	1.0		31.7	0.070
A - 9 - 2	73-G-853	0.2		35.2	0.078
A - 10 - 1	73-G-854	BLD		15.8	0.035
A - 10 - 2	73-G-855	6.0		30.6	0.067
A - 10 - 3	73-G-856	4.9		33.4	0.074
A - 10 - 4	73-G-857	BLD		33.1	0.073
A - 10 - 5	73-G-858	10.5	0.31	35.7	0.079
A - 10 - 6	73-G-859	10.3	0.31	29.4	0.065
A - 11 - 1	73-G-860	0.1		30.8	0.068
A - 11 - 2	73-G-861	7.4		31.3	0.069
A - 11 - 3	73-G-862	17.6	0.51	28.9	0.064
A - 12 - 1	73-G-863	1.8		23.0	0.051
A - 13 - 1	73-G-864	0.1		25.3	0.056
A - 13 - 5	73-G-865	3.5		38.4	0.085
B - 3 - 1	73-G-866	0.2		32.5	0.072
B - 3 - 2	73-G-867	BLD		30.3	0.067
B - 3 - 3	73-G-868	BLD		33.5	0.074

METHODS:

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Millaquin House
Herschel Street, Brisbane 4000
Telephone 27320

Roma Street, Brisbane 4000
Telephone 213875

GEOCHEMICAL LABORATORY REPORT

615149

FIELD SHEET No.: DD7319 PROJECT No.: EL 6-68 MAIHINNA - DAN'S RIVULET
DRILL

LAB. SHEET No.: 1397/4 SAMPLE TYPE: CONCENTRATE DATE: 9th August, 1973.

SAMPLE No.	LAB. No.	Au ppm	Au Ozs	Weight	
				Gms	Lbs
A13 - 2	73-H-175	0.3		19.9	0.044
A13 - 3	73-H-176	BLD		37.8	0.083
A13 - 4	73-H-177	9.0		40.2	0.089
B 3 - 4	73-H-178	BLD		33.2	0.073
B 3 - 5	73-H-179	BLD		32.7	0.072
B 3 - 6	73-H-180	BLD		36.2	0.080
B 3 - 7	73-H-181	1.0		33.1	0.073

METHODS: Au by GRC No. 122



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GEOCHEMICAL LABORATORY REPORT

615150

FIELD SHEET No. 007321 PROJECT No. EL6-68 MATHINNA: DANS RIVULET

LAB. SHEET No. 1406/1 SAMPLE TYPE: CONCENTRATE DATE: 29th August, 1973.

SAMPLE No.	LAB. No.	Au ppm	Au ozs	Wt. gms	Wt. lbs.
B4 - 1	73-H-724	BLD		20.8	0.046
2	73-H-725	BLD		25.2	0.056
3	73-H-726	2.4		32.2	0.071
4	73-H-727	6.3		23.7	0.052
5	73-H-728	3.8		35.6	0.078
6	73-H-729	22.1	0.64	12.0	0.026
7	73-H-730	6.1		20.9	0.046
8	73-H-731	0.1		22.4	0.049
B5 - 1	73-H-732	BLD		23.2	0.051
2	73-H-733	BLD		22.6	0.050
C1 - 1	73-H-734	0.3		31.2	0.069
2	73-H-735	2.7		35.7	0.079
3	73-H-736	108	3.18	24.5	0.054
C2 - 1	73-H-737	0.2		28.6	0.063
2	73-H-738	BLD		24.3	0.054
3	73-H-739	BLD		10.1	0.022
4	73-H-740	0.1		23.2	0.051
5	73-H-741	0.1		30.7	0.068
6	73-H-742	1.5		21.8	0.048
7	73-H-743	1.3		32.9	0.070
D1 - 1	73-H-744	14.7	0.42	44.0	0.097
2	73-H-745	1.1		35.6	0.078
3	73-H-746	6.7		35.3	0.078
E1 - 1	73-H-747	10.8	0.31	26.9	0.059
2	73-H-748	1.7		26.0	0.057
3	73-H-749	1.1		38.1	0.084
4	73-H-750	BLD		31.7	0.070
E2 - 1	73-H-751	BLD		22.6	0.050
2	73-H-752	BLD		29.5	0.065
3	73-H-753	4.1		38.0	0.084
4	73-H-754	0.2		38.5	0.085

METHODS: Au by GRC No. 122

Ozs = ounces per short ton of 2,000 lbs.

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GEOCHEMICAL LABORATORY REPORT 615151

FIELD SHEET No. 007321/22 PROJECT No. EL 6-68 MATHINNA: DANS RIVULET

LAB. SHEET No. 1406/2 SAMPLE TYPE CONCENTRATE DATE 29th August, 1973.

SAMPLE No.	LAB. No.	AU PPM	AU OZS			Wt. gms	Wt. lbs.
E3 - 1	73-H-755	0.1				31.1	0.069
2	73-H-756	BLD				33.5	0.074
C3 - 1	73-H-876	0.1				21.0	0.047
2	73-H-877	8.0				36.8	0.081
D3 - 1	73-H-878	12.8	0.37			40.2	0.089
2	73-H-879	BLD				36.4	0.080
3	73-H-880	77.3	2.2			49.7	0.110
D2 - 1	73-H-881	0.3				25.8	0.057
2	73-H-882	BLD				41.0	0.090
3	73-H-883	BLD				38.3	0.085
E3 - 3	73-H-884	BLD				31.2	0.069
4	73-H-885	6.3				41.3	0.091
5	73-H-886	0.1				40.7	0.090
6	73-H-887	66.7	1.9			31.6	0.070
7	73-H-888	11.6	0.33			39.0	0.086

METHODS:

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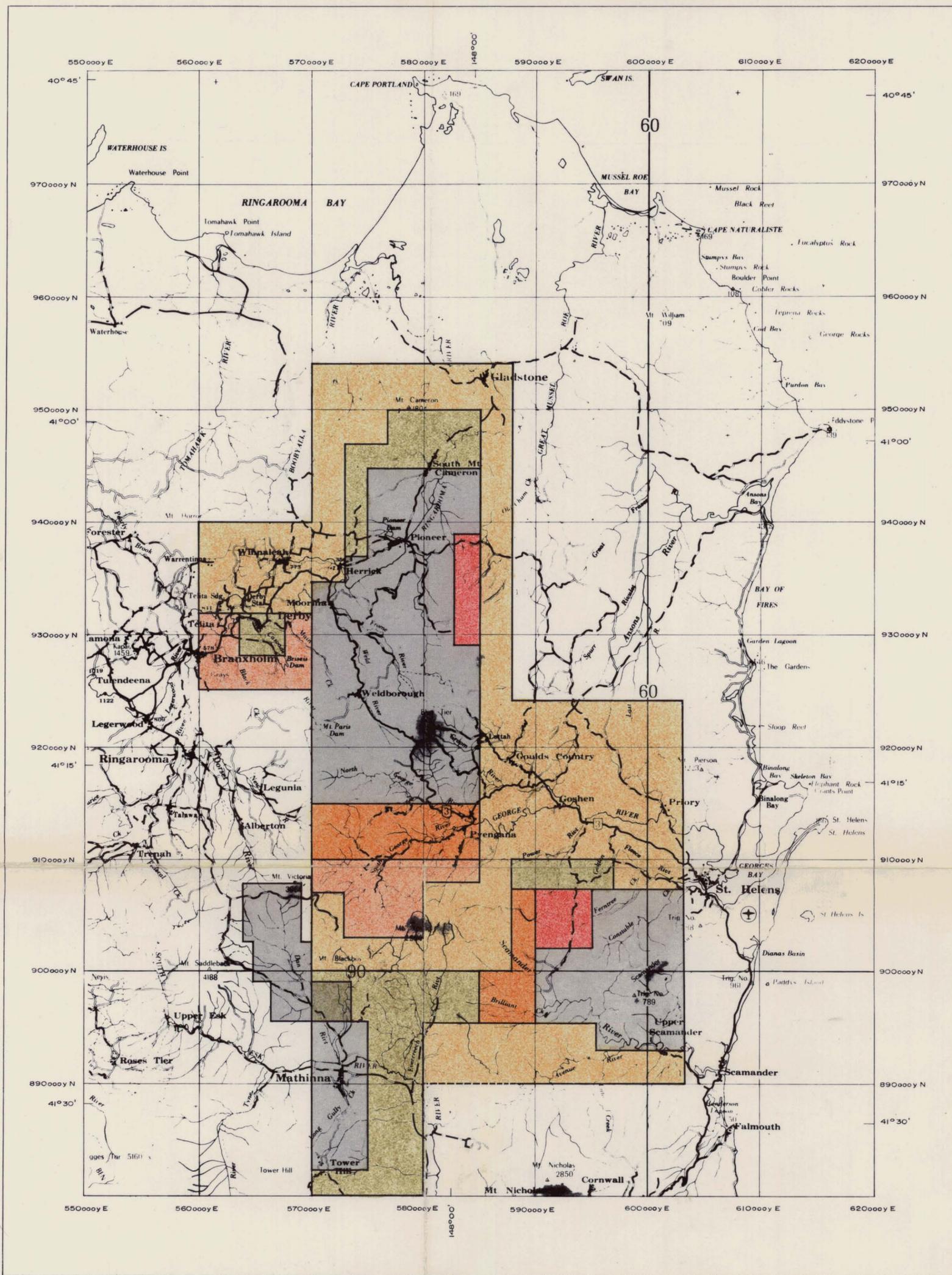
R. C. M. J.

APPENDIX D (See Volume 2)

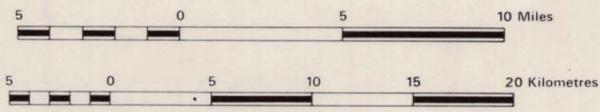
DRAWINGS APPENDED WHICH ARE NOT
INCLUDED IN REPORTS REFERRED TO HEREIN

Drawing No.

A.218	Extensions and reductions to area held under E.L. 6/68
A.179	Black Horse Gully and Long Gully Creek backhoe pit locations
A.219	Black Horse Gully and Long Gully Creek backhoe pit sections (4 sheets)
A.199	Dans Rivulet Alluvial Testing (2 sheets)
1/178	Black Horse Gully and Long Gully Creek backhoe hole sections (5 sheets)



Scale: 1 : 250,000



615153

74-994

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EXPLORATION LICENCE 6/68 - 23-8-68	
Extensions and reductions to area	Date
	23-2-70
	23-8-70
	23-8-71
	23-2-72
	23-8-72
	23-2-73

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 E.L. 6/68 NORTH EAST TASMANIA

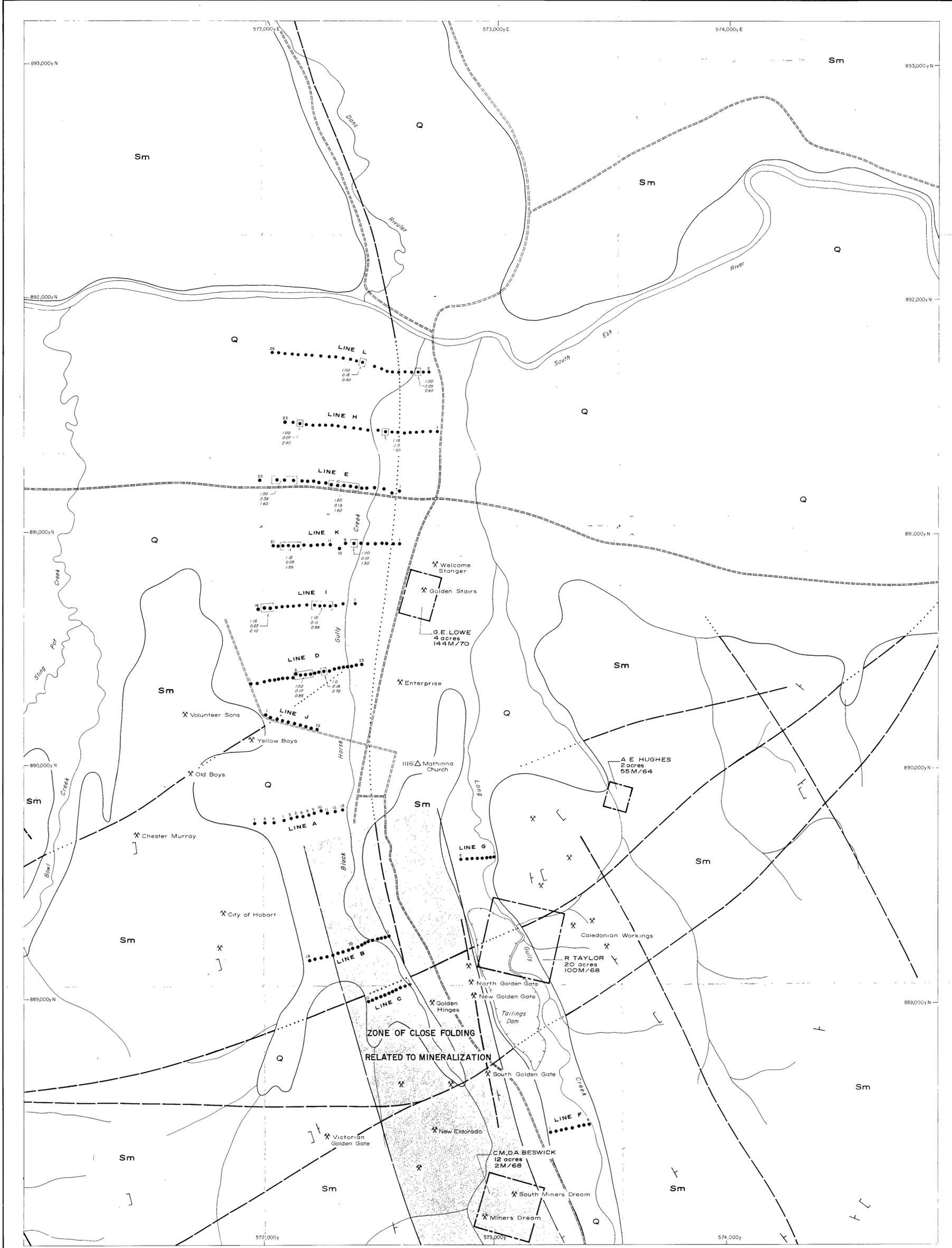


EXTENSIONS AND REDUCTIONS
 TO AREA HELD UNDER
 EXPLORATION LICENCE 6/68

1998

PROJECT	6/68	AUTHOR	—	DATE	DEC. 1973	DWG N°	A218
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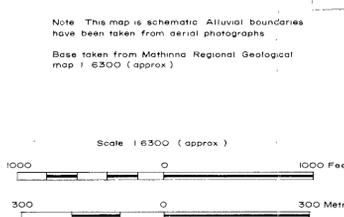
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615154

- Quaternary Q Alluvium
- Silurian Mathinna Group Sm Slate and quartzite
- Beeding
- Cleavage
- Fault, inferred - photography, same geology, dotted where concealed
- Contact
- Mine, prospect, disused X

- Backhoe hole location
- Stream
- Vehicle track
- Foreign lease, showing applicant, area, application number
- 10 metres
- 0.17 metres
- 0.70 metres
- Average thickness
- Average grade
- Average thickness overburden



74-994

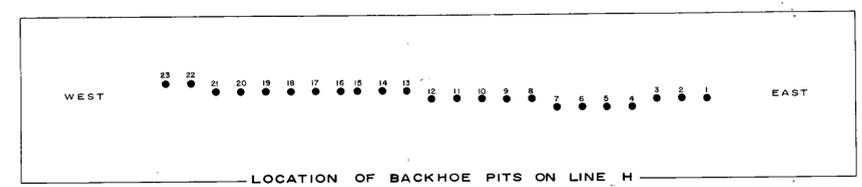
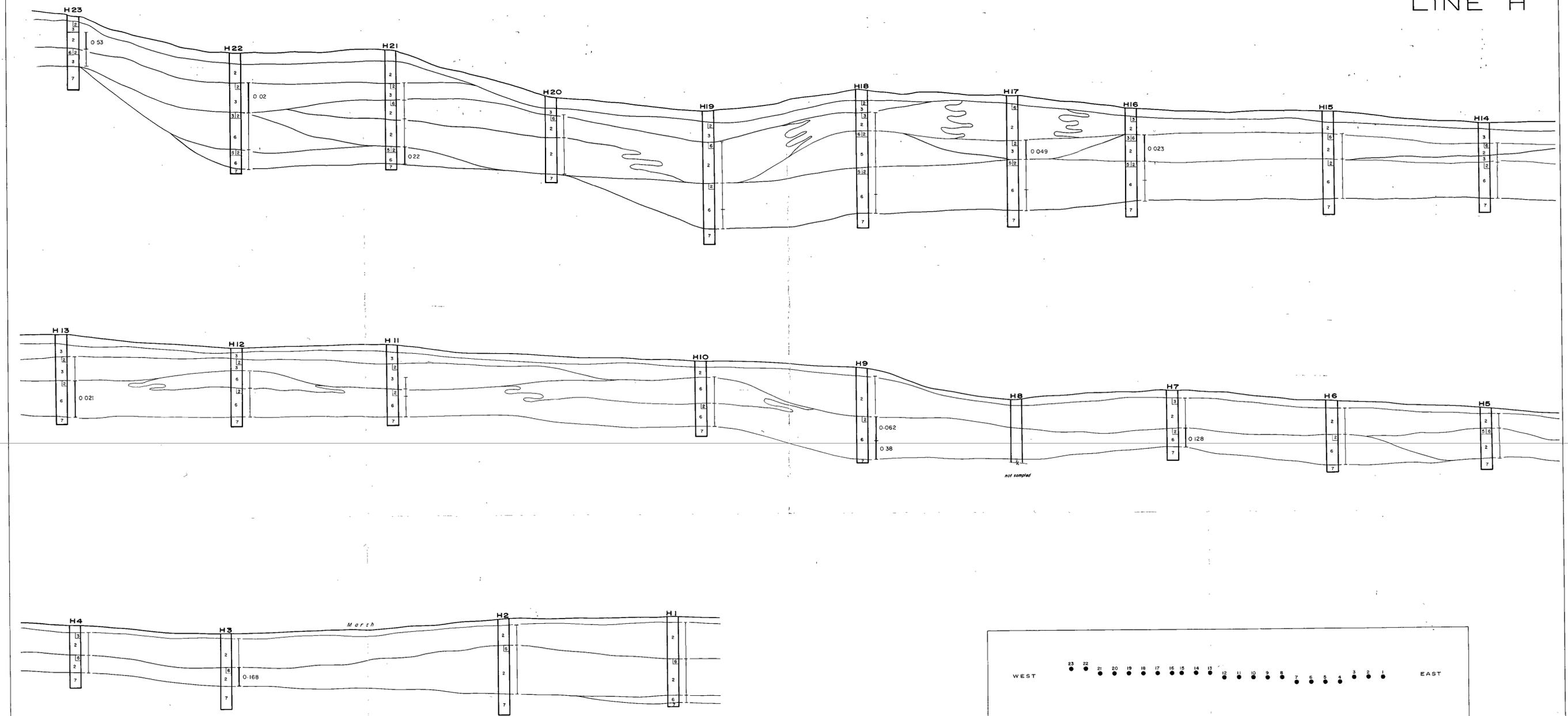
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MATHINNA AREA 1999
Black Horse Gully & Long Gully Creek
BACKHOE PIT LOCATIONS

PROJECT 6/68 AUTHOR W.Turner & A.Co. DATE Aug, 1973 DWG NO. 179

LINE H



LEGEND

- | | | |
|---|--|---|
| Humic soil | 5 Grit | 2 3 Clayey silty gravel |
| 2 Clay | 6 Gravel | 3 4 Silty sandy clay |
| 3 Silt | 7 Bedrock | Channel sample |
| 4 Sand | | 0.25 Value of sample
Au dwt/yd |

Scale Vertical | 50
Horizontal | 300

615155

5 cm

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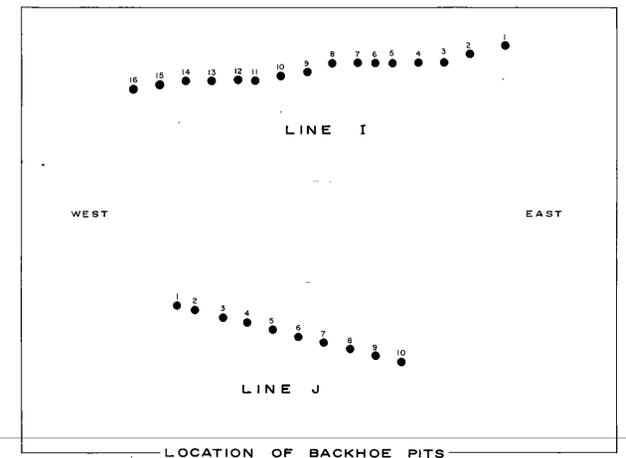
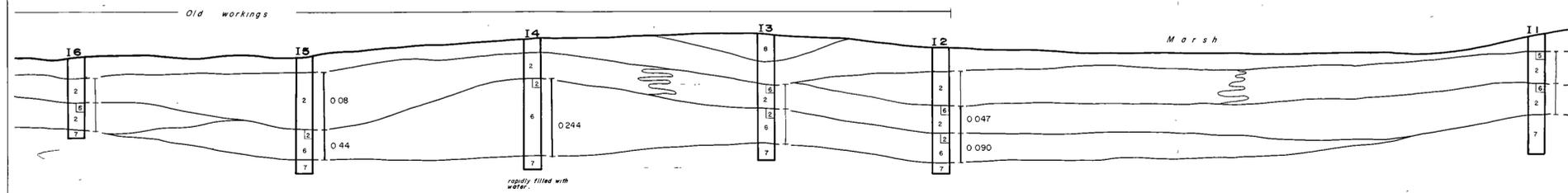
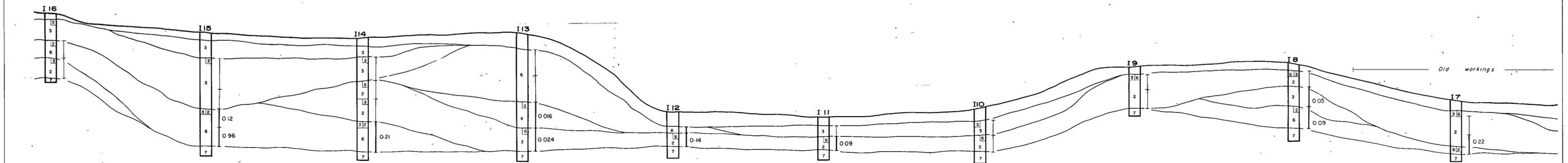
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MATHINNA AREA 2000
Black Horse Gully & Long Gully Creek
BACKHOE PIT SECTIONS

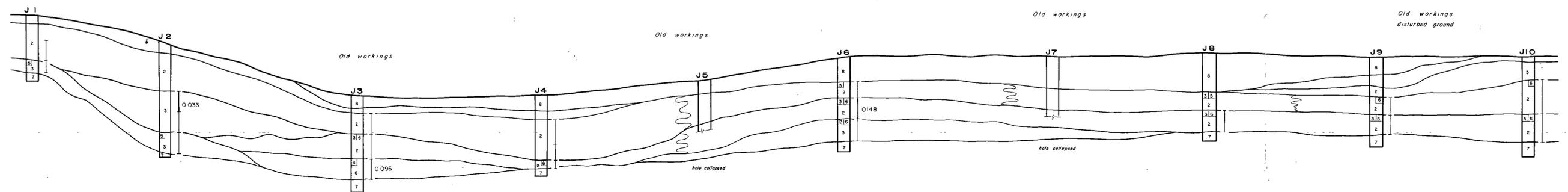
PROJECT	6/68	AUTHOR	A Cox	DATE	Aug, 1973	DWS N°	A 219
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SHEET 1 OF 4
28/5

LINE I



LINE J



LEGEND

Humic soil	Grit	Clayey silty gravel
Clay	Gravel	Silty sandy clay
Silt	Bedrock	Channel sample
Sand	?	Other sample
		0.25 Value of sample Au dwt / yd

Scale Vertical 1 50
Horizontal 1 300

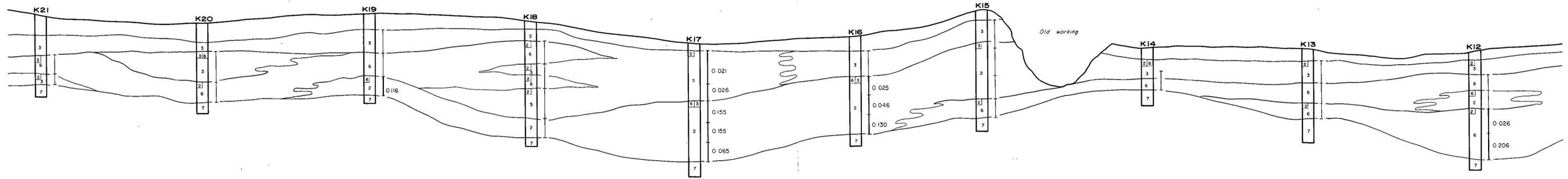
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5 cm

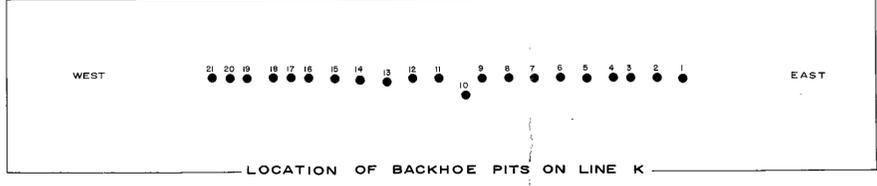
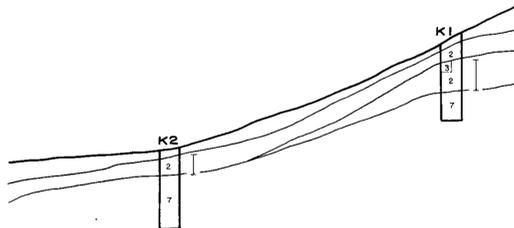
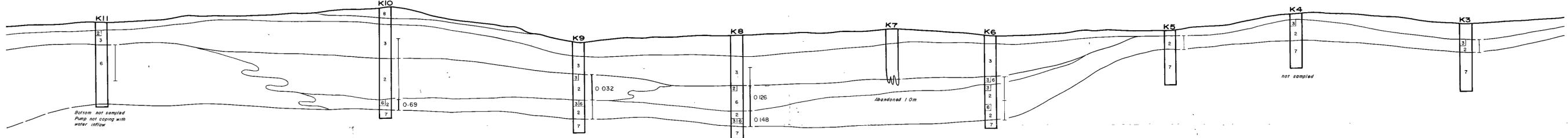
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 EL 6/68 NORTH EAST TASMANIA
 MATHINNA AREA 2001
 Black Horse Gully & Long Gully Creek
BACKHOE PIT SECTIONS

LINE K



Numerous old workings

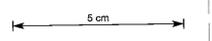


LEGEND

- | | | |
|--|---|---|
| Humic soil | 5 Grit | 2 3 Clayey silty gravel |
| 2 Clay | 6 Gravel | 3 4 Silty sandy clay |
| 3 Silt | 7 Bedrock | Channel sample |
| 4 Sand | | Other sample |
| | | 0.25 Value of sample Au det / yd |

Scale Vertical 1 50
Horizontal 1 300

615157



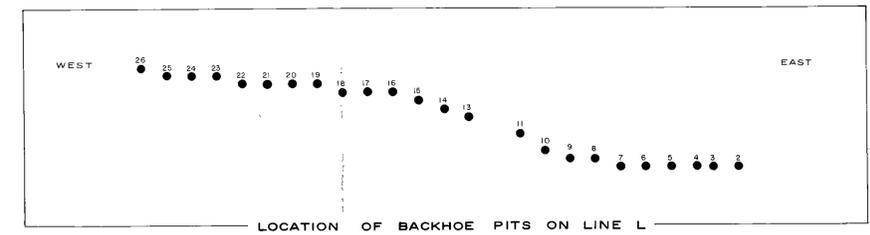
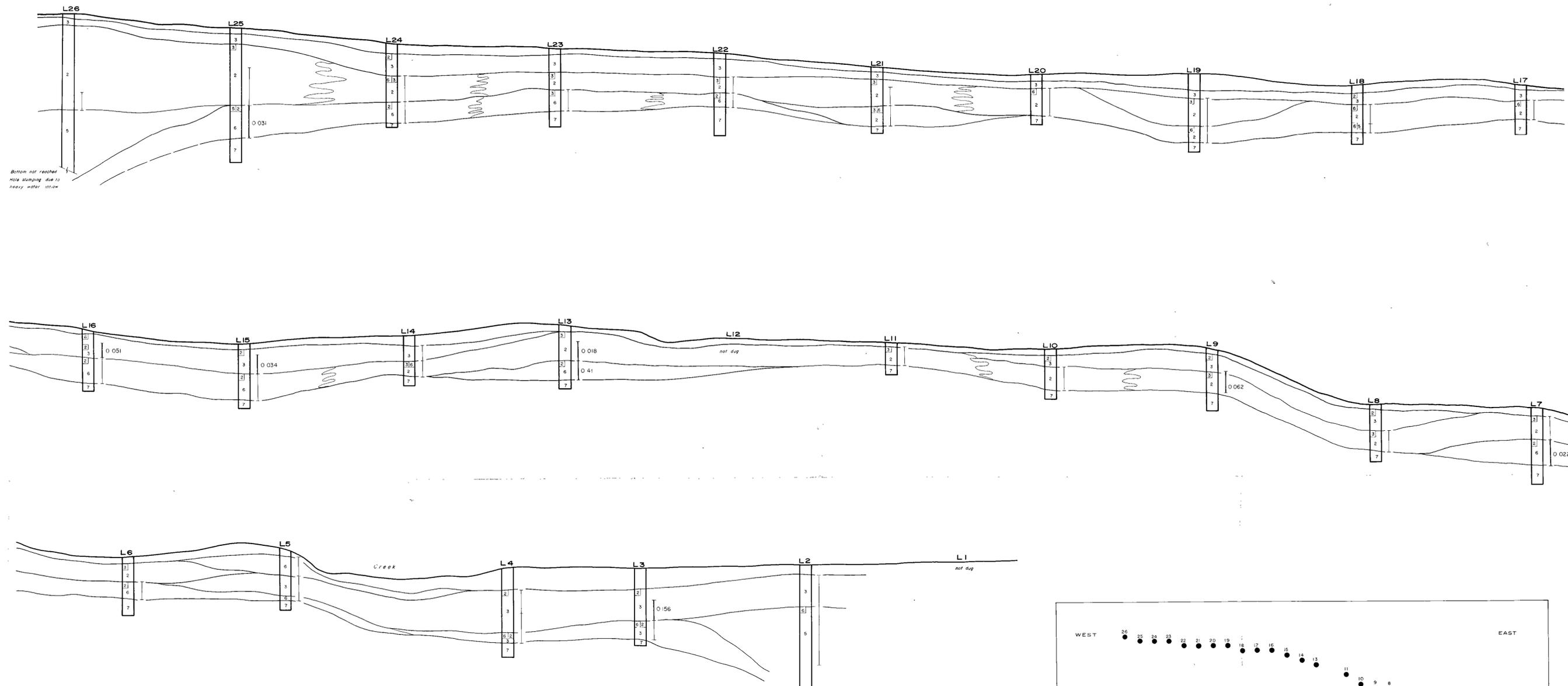
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MATHINNA AREA
Black Horse Gully & Long Gully Creek
BACKHOE PIT SECTIONS

40/5

LINE L



LEGEND

- | | | |
|--|---|---|
| Humic soil | 5 Grt | 2 3 Clayey silty gravel |
| 2 Clay | 6 Gravel | 3 4 Silty sandy clay |
| 3 Silt | 7 Bedrock | 1 Channel sample |
| 4 Sand | | 2 Other sample |
| | | 0.25 Value of sample Au wet / yd |

Scale — Vertical 1 : 50
Horizontal 1 : 300

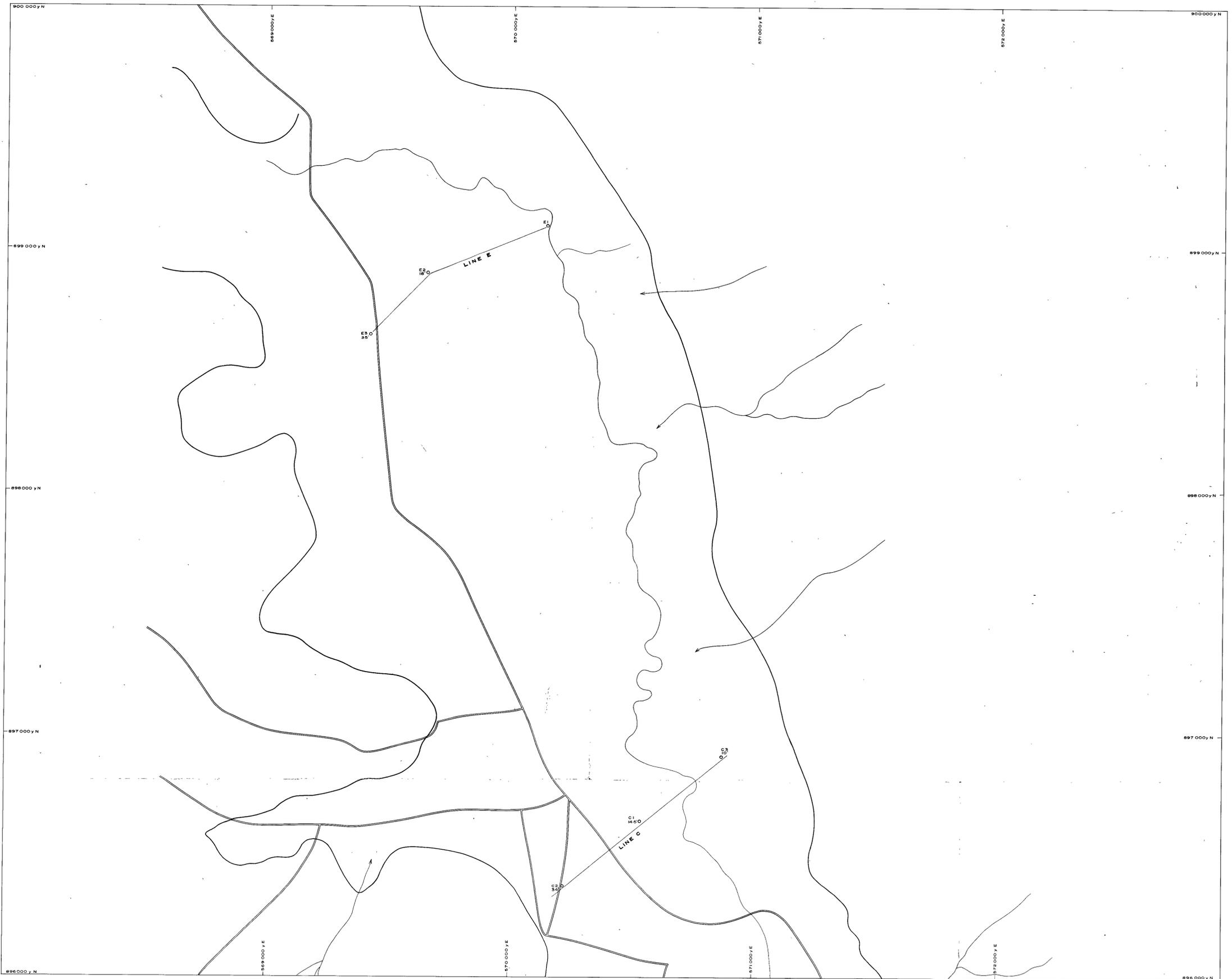
615158

5 cm

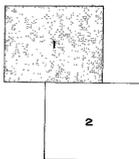
74-994

TEXAS INSTRUMENTS INCORPORATED
GEOPHOTO RESOURCES
 SYDNEY, AUSTRALIA
 TEXINS DEVELOPMENT PTY. LTD.
 EL. 6/68 NORTH EAST TASMANIA
 MATHINNA AREA 2003
 Black Horse Gully & Long Gully Creek
 BACKHOE PIT SECTIONS

PROJECT 6/68 AUTHOR A. Cox DATE Aug, 1973 DWG. NO. A219

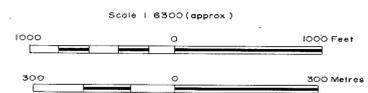


SHEET INDEX



- Alluvium boundary
- Line tested
- Seismic coverage
- Cable Tool Hole
Location and depth to bedrock in feet
- Backhoe Hole
Location and depth (• indicates bedrock not reached)
- Road
- Track
- Creek

Base map compiled from enlarged aerial photographs



615159

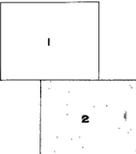


74-994

TEXAS INSTRUMENTS INCORPORATED			
GEOPHOTO RESOURCES			
SYDNEY, AUSTRALIA			
TEXINS DEVELOPMENT PTY. LTD.			
EL 6/68 NORTH EAST TASMANIA			
MATHINNA AREA			
Dans Rivulet Prospect			
ALLUVIAL TESTING			
2004			
PROJECT	6/68	AUTHOR	I Marlmore
DATE	October 1973	DRAWN BY	A-199



SHEET INDEX



- Alluvium boundary
- Line tested
- Seismic coverage
- Cable Tool Hole
Location and depth to bedrock in feet
- Backhoe Hole
Location and depth (+ indicates bedrock not reached)

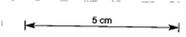
- Road
- Track
- Creek

Base map compiled from enlarged aerial photographs

Scale 1:6300 (approx)



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TEXAS INSTRUMENTS INCORPORATED
GEOPHOTO RESOURCES
 SYDNEY, AUSTRALIA

TEXINS DEVELOPMENT PTY. LTD

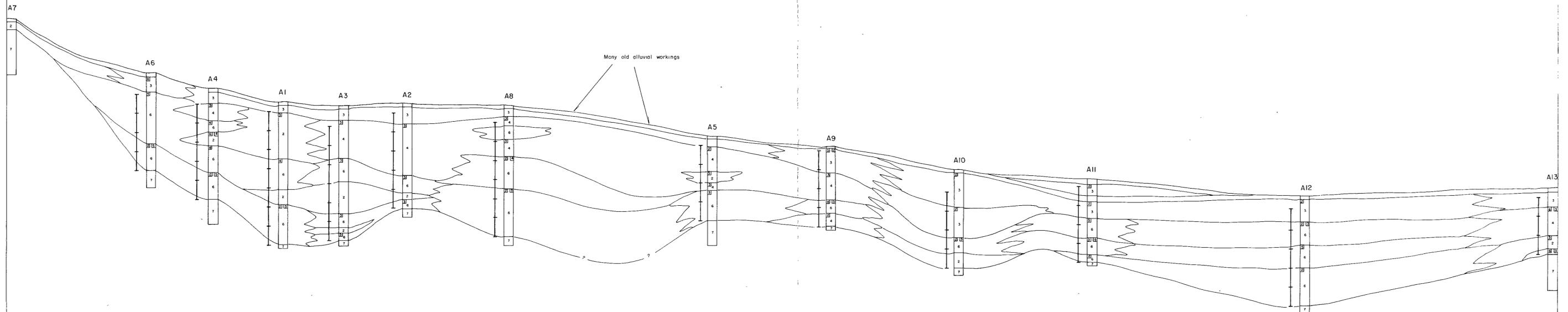
EL 6/68 NORTH EAST TASMANIA
 MATHINNA AREA

Dans Rivulet Prospect
ALLUVIAL TESTING

2005

PROJECT 6/68 AUTHOR I Mortimore DATE October 1973 DWG NO A-199

Line A



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TEXAS INSTRUMENTS INCORPORATED

GEOPHOTO RESOURCES CONSULTANTS
SYDNEY AUSTRALIA



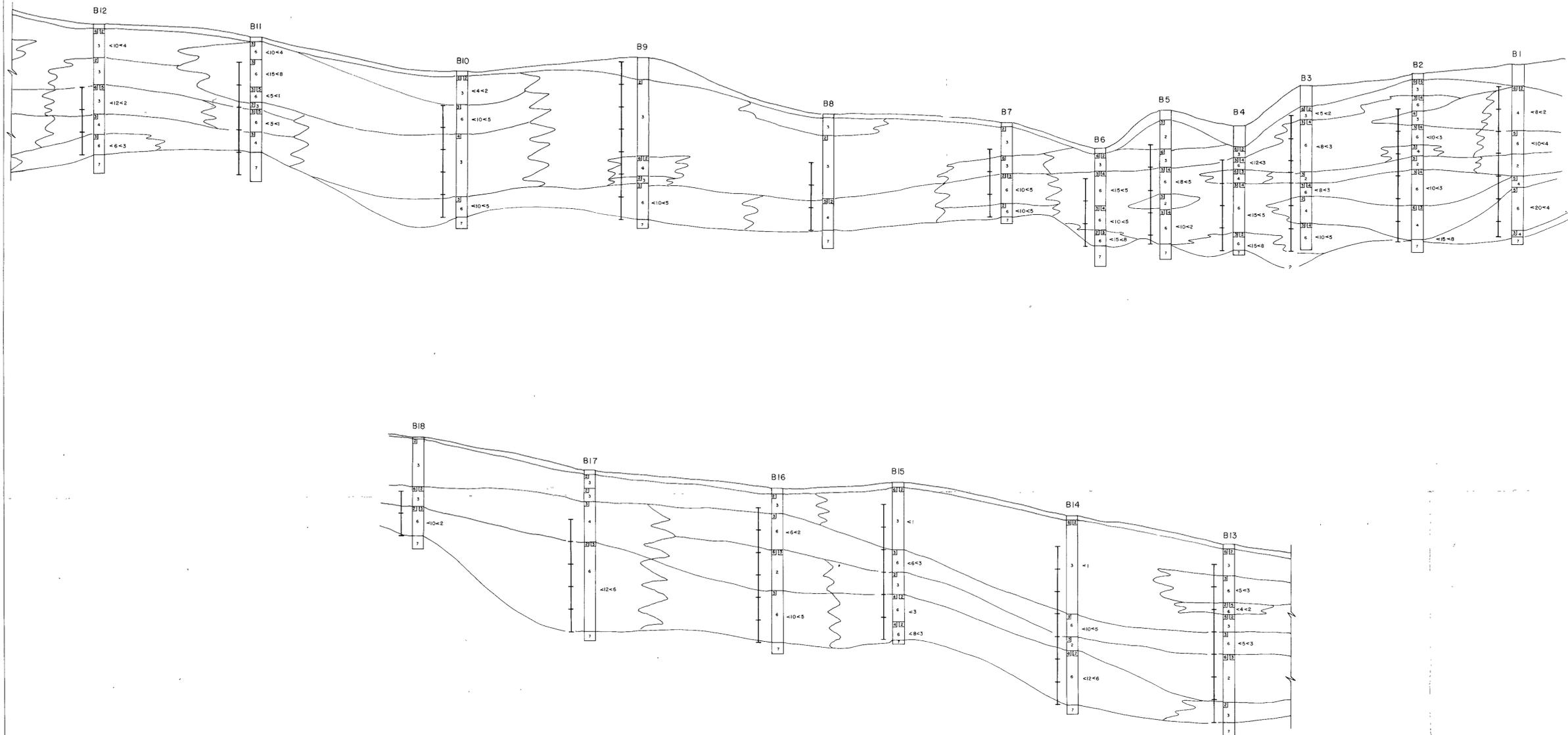
TEXINS DEVELOPMENT PTY. LTD.
EL 6/68 NORTH EAST TASMANIA
MATHINNA AREA 2006
Black Horse Gully & Long Gully Creek
BACKHOE HOLE SECTIONS

Horizontal Scale 1 : 305
Vertical Scale 1 : 50

LEGEND

- | | | |
|------------|---------|--|
| Humic soil | Grnt | Clayey silty gravel
≠10<5 gravel <10cms
usually <5 cms |
| Clay | Gravel | Silty sandy clay |
| Silt | Bedrock | Channel sampling |
| Sand | | |

Line B



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74-994

TEXAS INSTRUMENTS INCORPORATED

LEGEND

Humic soil	Grnt	Clayey silty gravel <10<5 gravel <10cms usually <5cms
Clay	Gravel	Silty sandy clay
Silt	Bedrock	Channel sampling
Sand		

Horizontal Scale | 305
Vertical Scale | 50

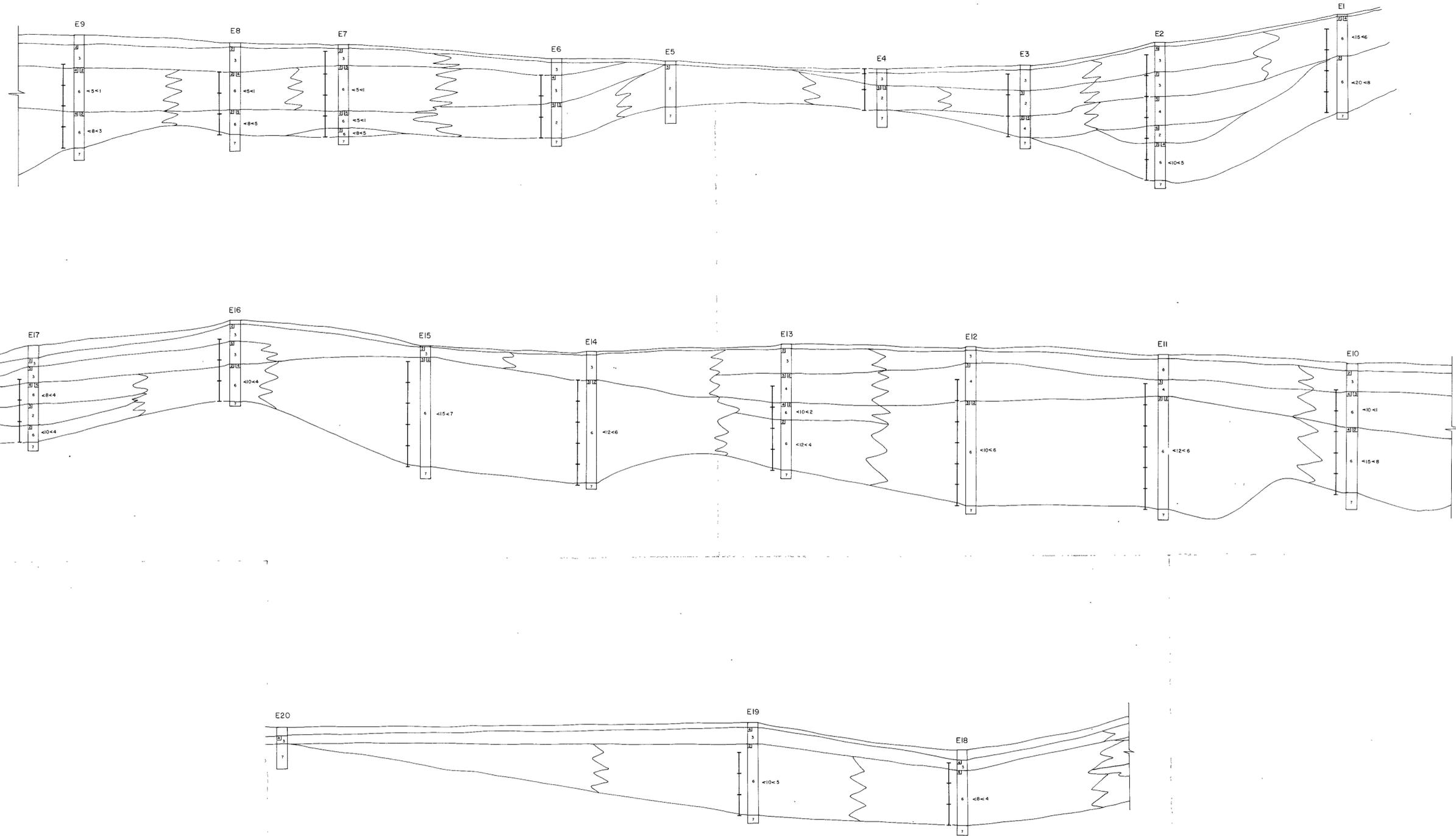
GEOPHOTO RESOURCES CONSULTANTS
SYDNEY AUSTRALIA



TEXINS DEVELOPMENT PTY. LTD. 2007
EL 6/68 NORTH EAST TASMANIA
MATHINNA AREA
Black Horse Gully & Long Gully Creek
BACKHOE HOLE SECTIONS

PROJECT	6 / 68	AUTHOR	W Turner	DATE	May 1973	DWG N°	1/178
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Line E



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LEGEND

Humic soil	Grit	Clayey silty gravel <math><10 < 5</math> gravel <math><10</math>cms usually <math><5</math> cms
Clay	Gravel	Silty sandy clay
Silt	Bedrock	Channel sampling
Sand		

Horizontal Scale | 305
Vertical Scale | 50

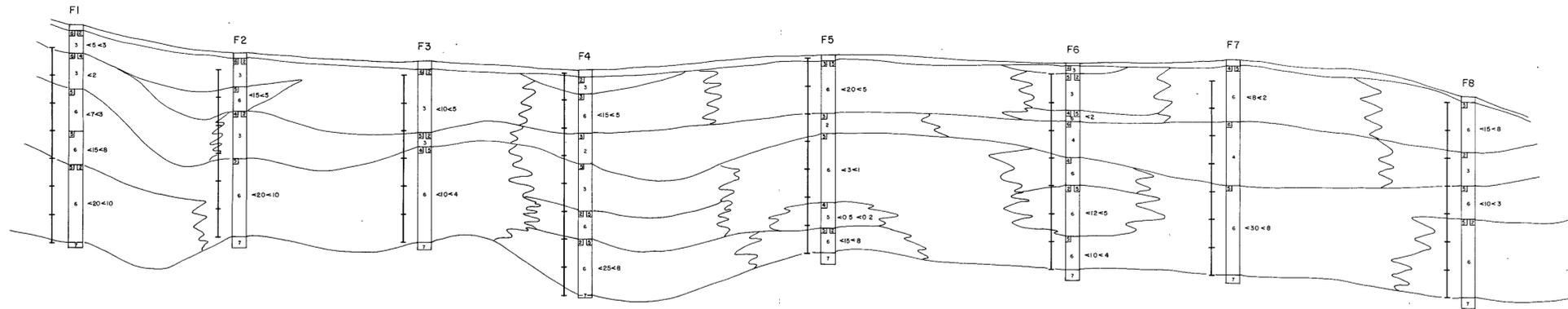
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GEOPHOTO RESOURCES CONSULTANTS
SYDNEY AUSTRALIA

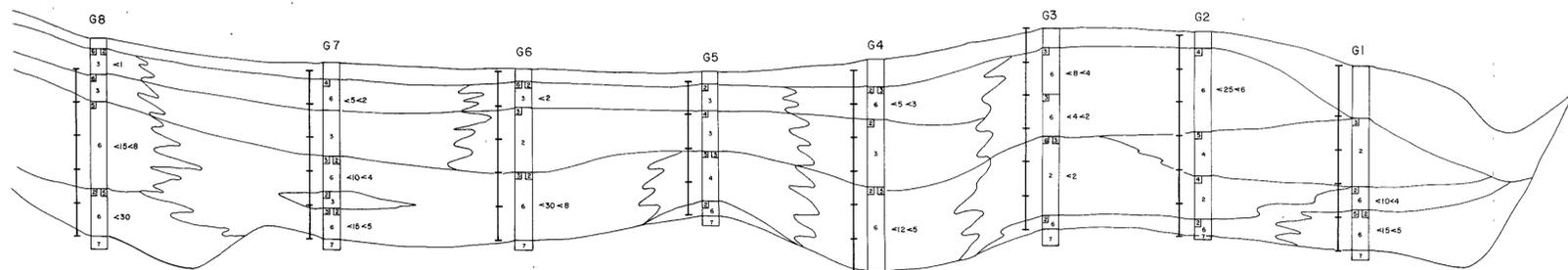
TEXINS DEVELOPMENT PTY. LTD. 2009
EL 6/68 NORTH EAST TASMANIA
MATHINNA AREA
Black Horse Gully & Long Gully Creek
BACKHOE HOLE SECTIONS

PROJECT 6 /68 AUTHOR W Turner DATE May 1973 DWG N° 1/178

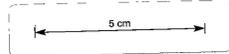
Line F



Line G



615165



74-994

LEGEND

- | | | |
|------------|---------|---|
| Humic soil | Grit | Clayey silty gravel
10-5 gravel <math><10</math>cms
usually <math><5</math> cms |
| Clay | Gravel | Silty sandy clay |
| Silt | Bedrock | Channel sampling |
| Sand | | |

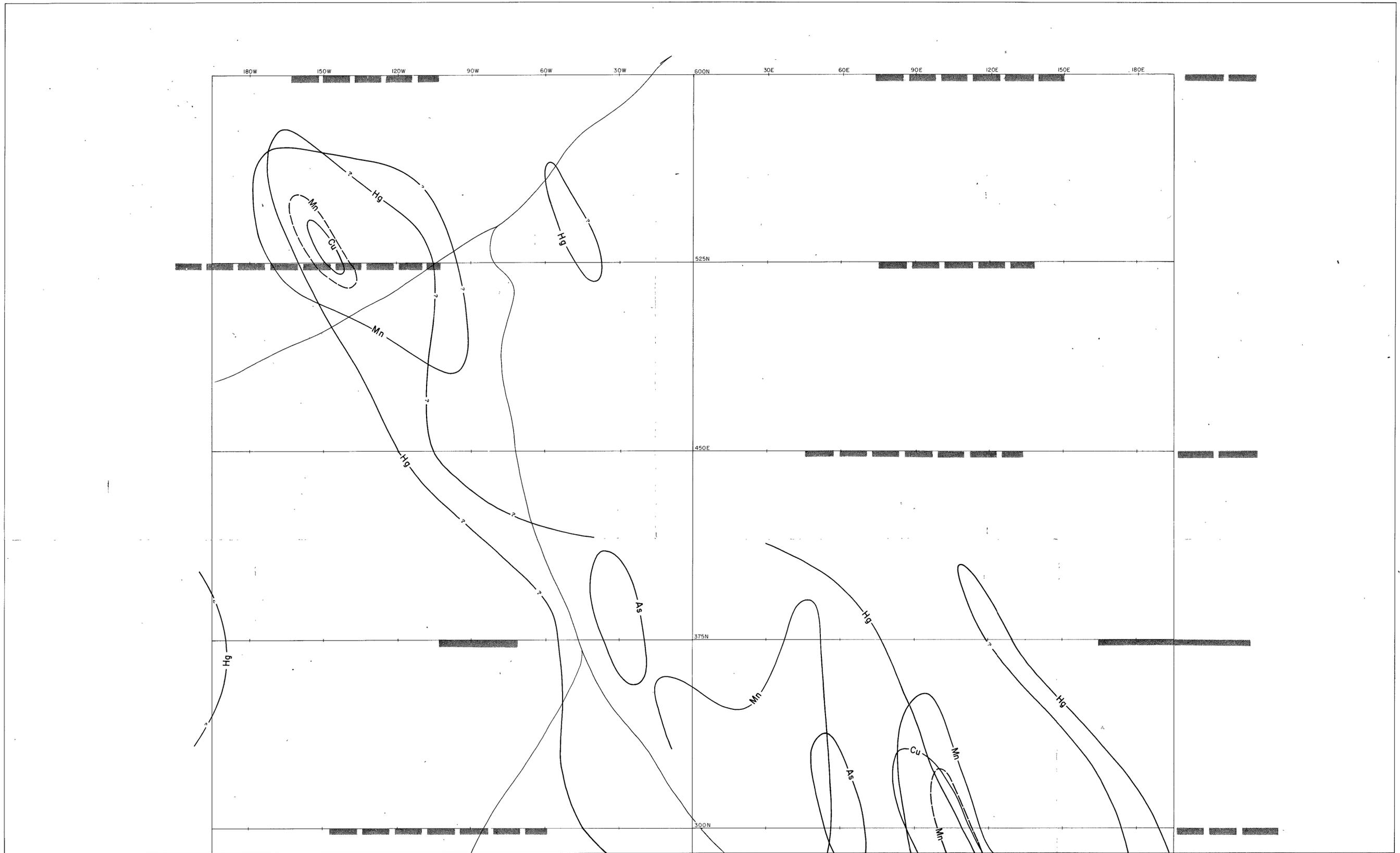
Horizontal Scale 1 305
Vertical Scale 1 50

TEXAS INSTRUMENTS INCORPORATED
GEOPHOTO RESOURCES CONSULTANTS
SYDNEY AUSTRALIA



TEXINS DEVELOPMENT PTY. LTD. 2010
E.L 6/68 NORTH EAST TASMANIA
MATHINNA AREA
Black Horse Gully & Long Gully Creek
BACKHOE HOLE SECTIONS

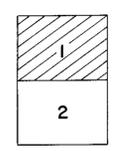
PROJECT 6 /68 AUTHOR W Turner DATE May 1973 DWG. N^o 1/178



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SHEET INDEX



LEGEND

- I.P. anomaly
- Probable I.P. anomaly
- Contoured '1'
- Contoured '3s'

Lepeltier System

- b = background
- s = background + one standard deviation
- t = background + two standard deviations
- 3s = background + three standard deviations

Mn	As	Cu	Hg
N = 185	N = 104	N = 195	N = 91
b = 80ppm	b = 55ppm	b = 28ppm	?t = 60ppb
t = 627ppm	t = 95ppm	t = 32.9ppm	
3s = 1760ppm			

Scale: 1:750

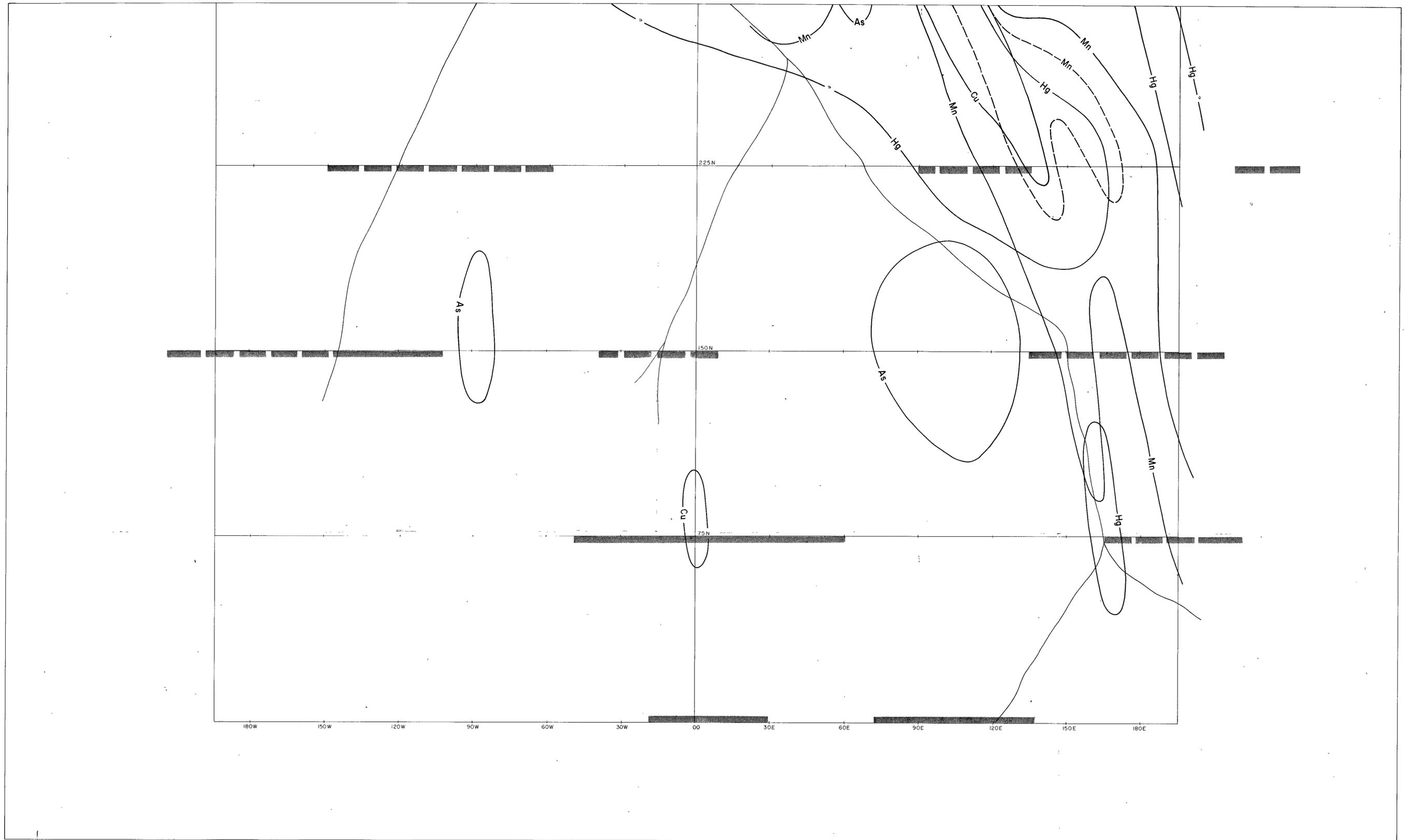


TEXAS INSTRUMENTS INCORPORATED
SERVICES GROUP
GEOPHOTO RESOURCES CONSULTANTS
BRISBANE AUSTRALIA



TEXINS DEVELOPMENT PTY LTD 2011
E.L.6/68 NORTH EAST TASMANIA
MATHINNA AREA
Jubilee - Mountaineer Grid
SHALLOW SOIL SAMPLING

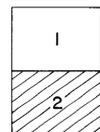
PROJECT	6/68	AUTHOR	W Turner	DATE	May, 1973	DWG NO	A 183
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74-994

SHEET INDEX



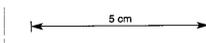
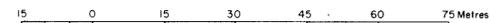
LEGEND

- I.P. anomaly
- Probable I.P. anomaly
- Contoured '1s'
- Contoured '3s'

- Lepeltier System
- b = background
 - s = background + one standard deviation
 - t = background + two standard deviations
 - 3s = background + three standard deviations

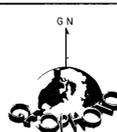
Mn	As	Cu	Hg
N = 186	N = 104	N = 195	N = 91
b = 80ppm	b = 55ppm	b = 12.8ppm	b = 60ppb
t = 62ppm	t = 35ppm	t = 32.5ppm	
3s = 176ppm			

Scale: 1:750



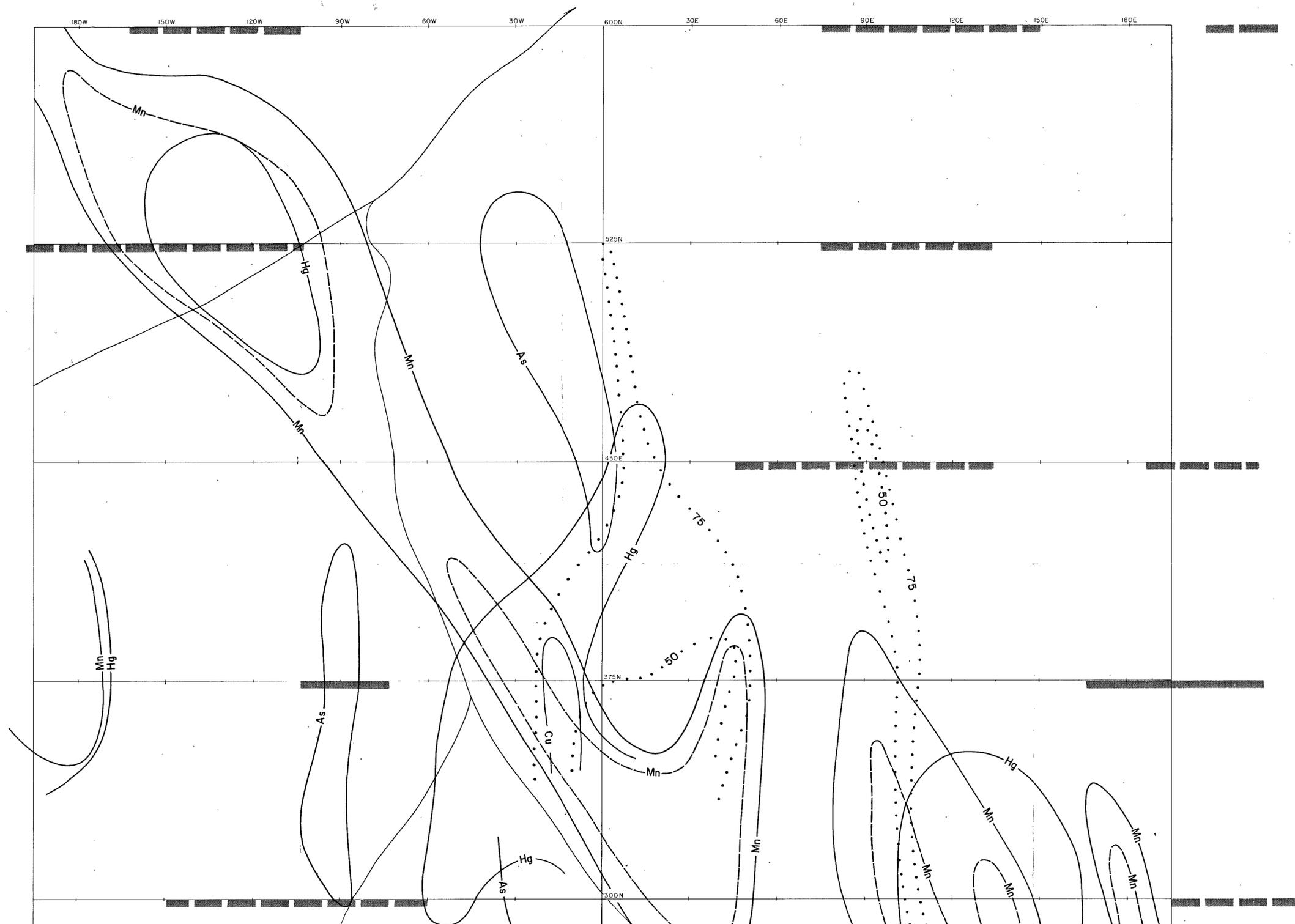
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SERVICES GROUP

GEOPHOTO RESOURCES CONSULTANTS
BRISBANE AUSTRALIA



TEXINS DEVELOPMENT PTY LTD
E.L.6/68 NORTH EAST TASMANIA
MATHINNA AREA
Jubilee - Mountaineer Grid
SHALLOW SOIL SAMPLING

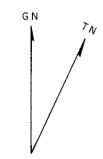
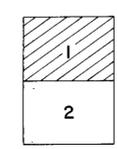
PROJECT 6/68 AUTHOR W Turner DATE May 1973 DWG NO A 183



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SHEET INDEX



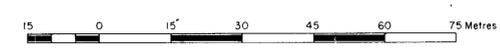
LEGEND

- I.P. anomaly
- Probable I.P. anomaly
- Contoured '1'
- Contoured '3s'
- Contoured $\frac{As}{Cu}$ 100

- Lepeltier System
- b background
 - s background + one standard deviation
 - † background + two standard deviations
 - 3s background + three standard deviations

Mn	As	Cu	Hg
N = 216	N = 171	N = 223	N = 113
b = 76ppm	b = 23.5ppm	b = 18.5ppm	b = 45ppb
s = 28.5ppm	s = 4.5ppm	s = 4.5ppm	s = 4.5ppb
3s = 54.5ppm			

Scale 1:750



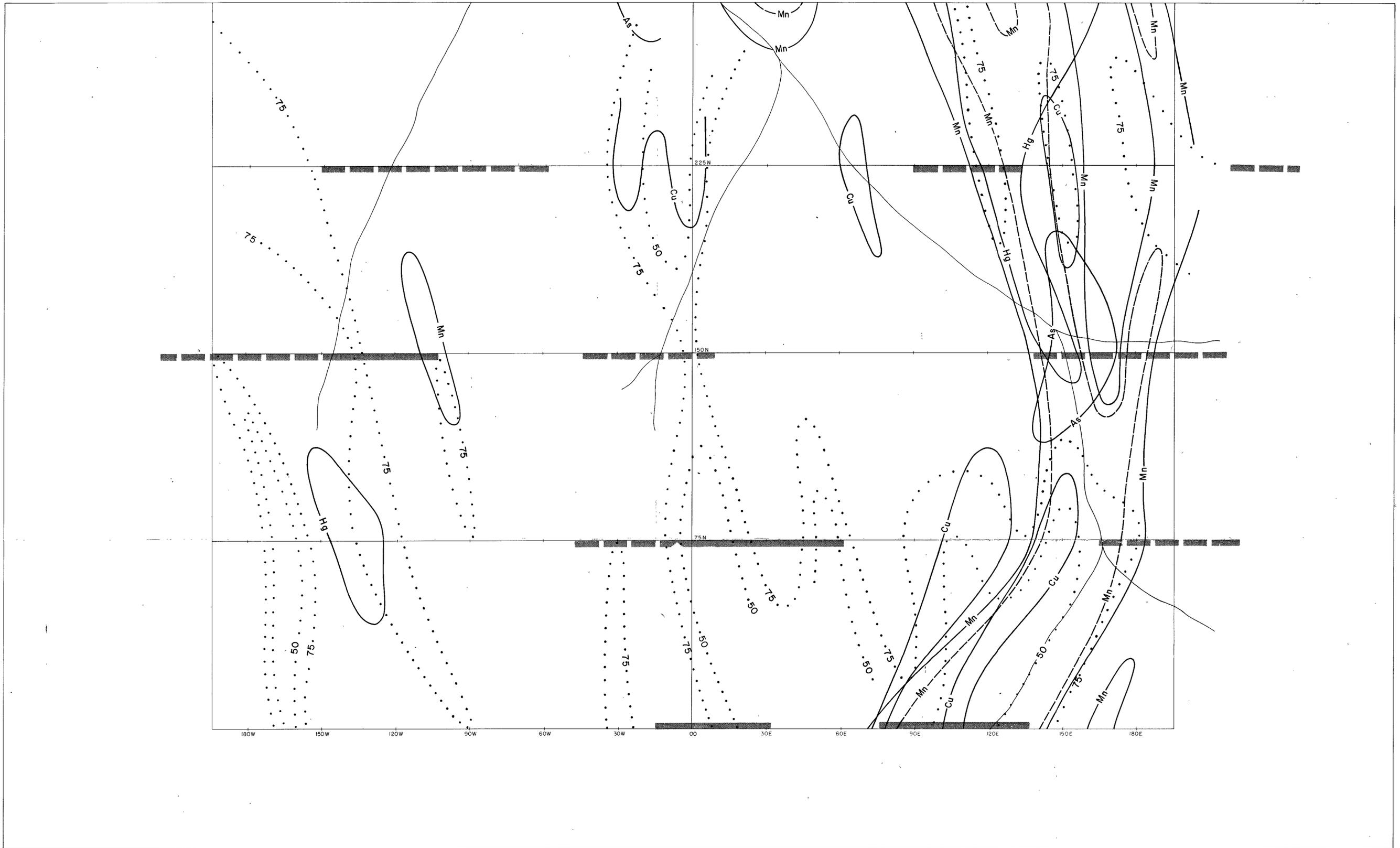
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SERVICES GROUP

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BRISBANE AUSTRALIA



TEXINS DEVELOPMENT PTY LTD
E.L.6/68 NORTH EAST TASMANIA
MATHINNA AREA
Jubilee - Mountaineer Grid
DEEP SOIL SAMPLING 2012

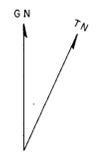
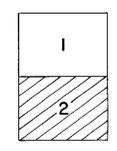
PROJECT	6/68	AUTHOR	W Turner	DATE	May, 1973	DWG NO	A 184
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SHEET INDEX



LEGEND

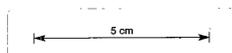
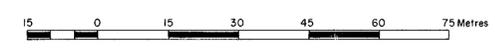
- I P anomaly
- Probable I P anomaly
- Contoured 't'
- Contoured '3s'
- Contoured As 100
- Contoured Cu

Lepeltier System

- b = background
- s = background + one standard deviation
- t = background + two standard deviations
- 3s = background + three standard deviations

Mn	As	Cu	Hg
N = 216	N = 171	N = 223	N = 113
b = 76 ppm	b = 23 ppm	b = 18 ppm	b = 45 ppb
t = 230 ppm	t = 48 ppm	t = 43 ppm	t = 45 ppb
3s = 545 ppm			

Scale: 1:750

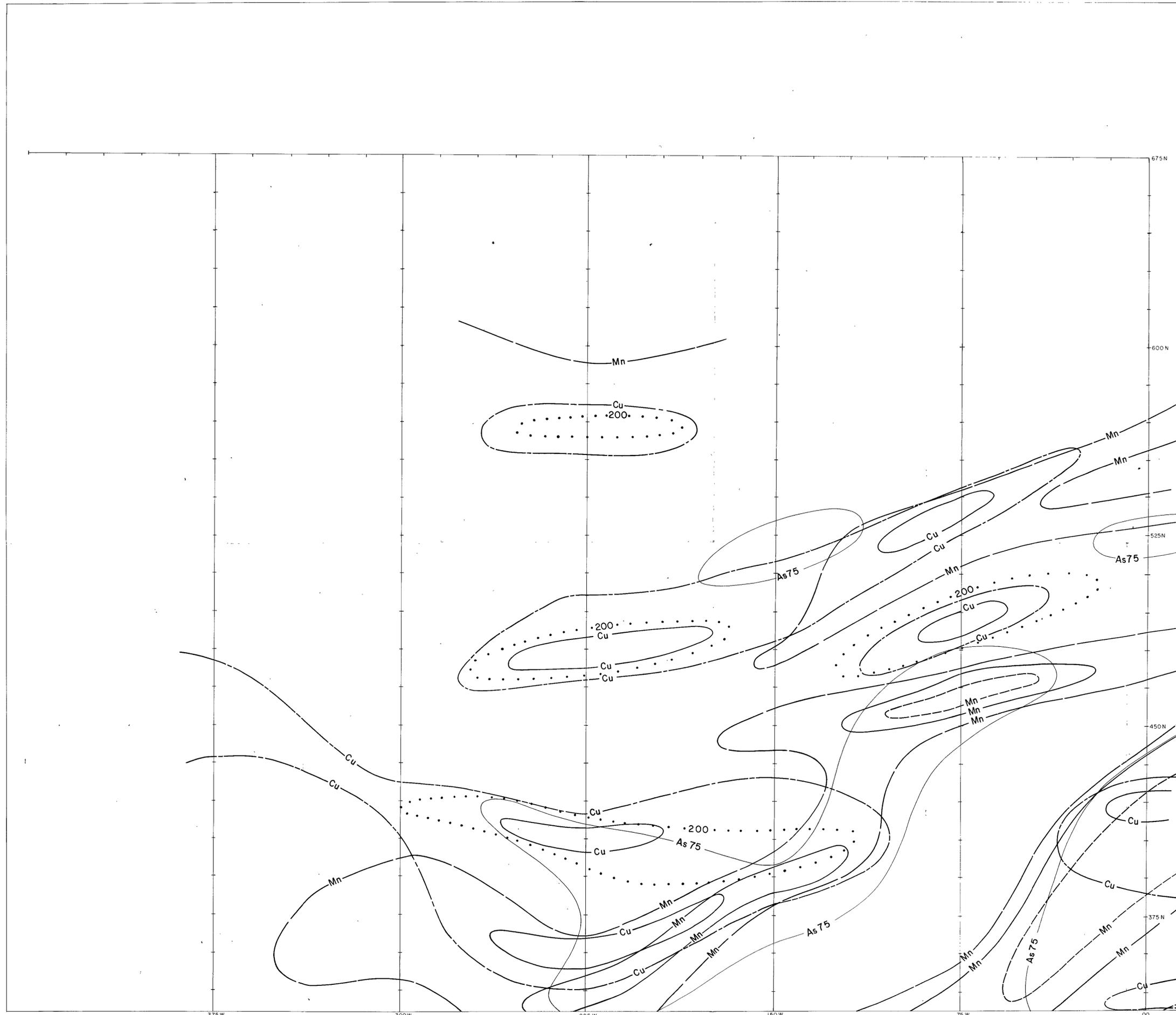


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BRISBANE AUSTRALIA

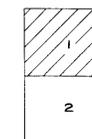


TEXINS DEVELOPMENT PTY LTD
E.L.6/68 NORTH EAST TASMANIA
MATHINNA AREA
Jubilee - Mountaineer Grid
DEEP SOIL SAMPLING 2013

PROJECT 6/68 AUTHOR W Turner DATE May, 1973 DWG NO A 184



SHEET INDEX

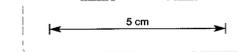


- Contoured 'b'
- Contoured 't'
- Contoured 's'
- Contoured '3s'
- Contoured As 75ppm
- Contoured Cu 100

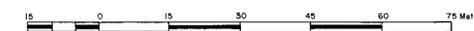
Lepeltier System

- b = background
- s = background + one standard deviation
- t = background + two standard deviations
- 3s = background + three standard deviations

Mn	As	Cu
N = 204	N = 145	N = 204
b = 100ppm	b = 50ppm	b = 11.5ppm
t = 357ppm	t = 85ppm	t = 37ppm
3s = 966ppm		s = 20.5ppm



Scale 1:750

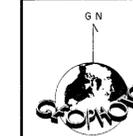


615170

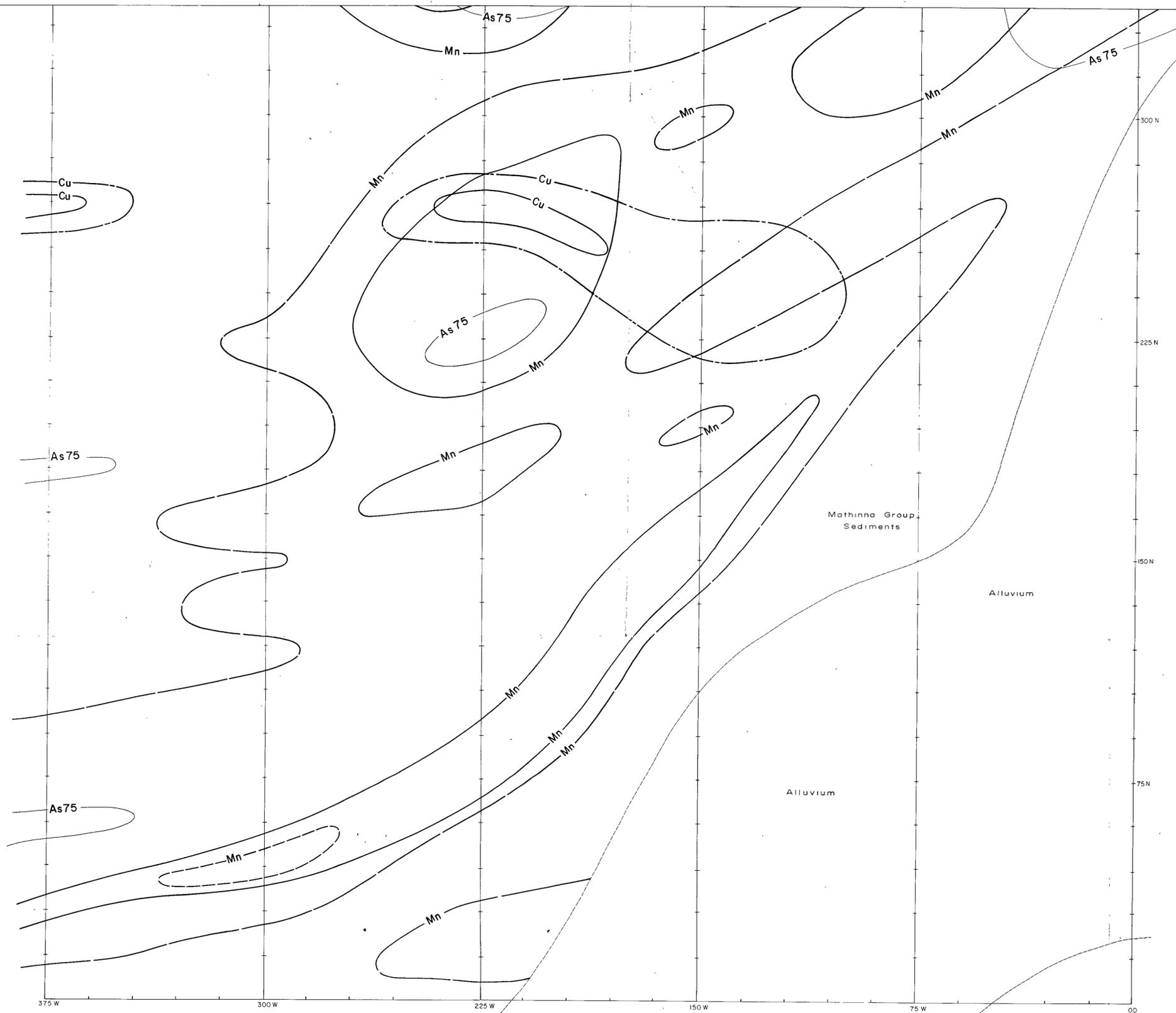
74-994

TEXAS INSTRUMENTS INCORPORATED

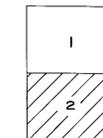
GEOPHOTO RESOURCES CONSULTANTS
SYDNEY AUSTRALIA



TEXINS DEVELOPMENT PTY LTD
E.L.6/68 NORTH EAST TASMANIA
MATHINNA AREA
CITY OF HOBART GRID 2014
Above bedrock soil geochemistry



SHEET INDEX



- Contoured 'b'
- Contoured 't'
- Contoured 's'
- Contoured '3s'
- Contoured As 75ppm
- Contoured $\frac{As}{Cu}$ 100

Lepeltier System

- b = background
- s = background + one standard deviation
- t = background + two standard deviations
- 3s = background + three standard deviations

Mn	As	Cu
N = 204	N = 145	N = 204
b = 100ppm	b = 50ppm	b = 11.5ppm
t = 357ppm	t = 85ppm	t = 37ppm
3s = 966ppm		s = 20.5ppm



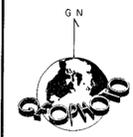
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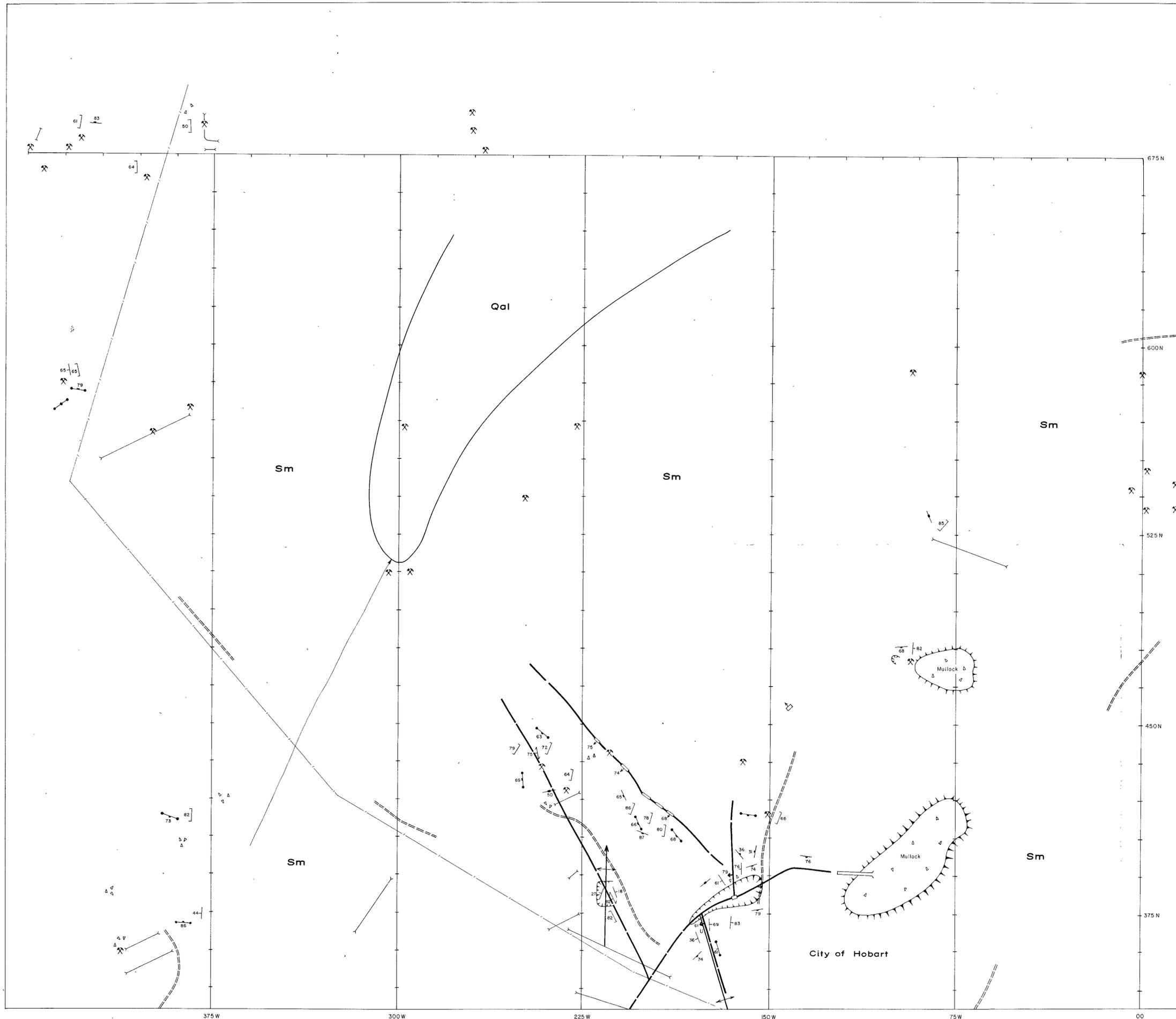
615171 74-994

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SYDNEY AUSTRALIA



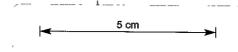
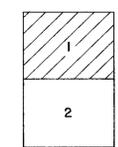
TEXINS DEVELOPMENT PTY LTD
E.L.6/68 NORTH EAST TASMANIA
MATHINNA AREA 2015
CITY OF HOBART GRID
Above bedrock soil geochemistry



LEGEND

- QUATERNARY Qal Alluvium
- SILURIAN Mathinna Group Sm Slate and quartzite
- Fault, dashed where indefinite, dotted where concealed
- - - Contact, dashed where indefinite
- ↑ Anticline
- ↘ Field observed dip
- ↖ Field observed vertical bedding
- ↗ Cleavage, inclined
- ↘ Cleavage, vertical
- ↗ Joint, inclined
- ↘ Joint, vertical
- Quartz vein
- ↖ Trench or costean
- ⊠ Prospect
- ⊞ Pit
- ⊞ Brecciation
- Fence
- ~ Creek
- == Track

SHEET INDEX



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 TEXAS INSTRUMENTS INCORPORATED

GEOPHOTO RESOURCES CONSULTANTS
 SYDNEY AUSTRALIA



TEXINS DEVELOPMENT PTY LTD
 E.L.6/68 NORTH EAST TASMANIA
MATHINNA AREA
 CITY OF HOBART GRID 2016
GEOLOGY

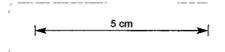
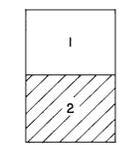
PROJECT	6/68	AUTHOR	W Turner	DATE	May 1973	DWG	N8	A	186
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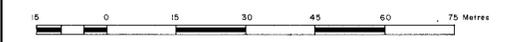
LEGEND

- QUATERNARY Qal Alluvium
- SILURIAN Sm Slate and quartzite
- MATHINNA GROUP**
- Fault, dashed where indefinite, questioned where inferred
 - Contact, dashed where indefinite
 - Anticline
 - Field observed dip
 - Field observed vertical bedding
 - Cleavage, inclined
 - Cleavage, vertical
 - Joint, inclined
 - Joint, vertical
 - Quartz vein
 - Trench or costean
 - Prospect
 - Pit
 - Brecciation
- Fence
- Creek
- Track

SHEET INDEX



Scale 1:750



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TEXAS INSTRUMENTS INCORPORATED

GEOPHOTO RESOURCES CONSULTANTS
SYDNEY AUSTRALIA



TEXINS DEVELOPMENT PTY LTD
E.L.6/68 NORTH EAST TASMANIA
MATHINNA AREA
CITY OF HOBART GRID
GEOLOGY 2017

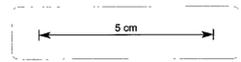
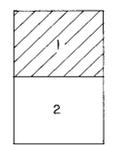
PROJECT	6/68	AUTHOR	W Turner	DATE	May 1973	DWG N°	A 186
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LEGEND

- QUATERNARY Qal Alluvium
- SILURIAN { MATHINNA GROUP Sm Slate and quartzite
- Fault, dashed where indefinite, questioned where inferred
- Contact, dashed where indefinite
- Field observed dip
- Field observed vertical bedding
- Cleavage, inclined
- Cleavage, vertical
- Joint, inclined
- Joint, vertical
- Quartz vein
- Trench or castlean
- Prospect
- Pit
- Brecciation
- Fence
- Creek
- Track

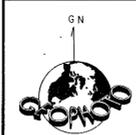
SHEET INDEX



Scale 1:750

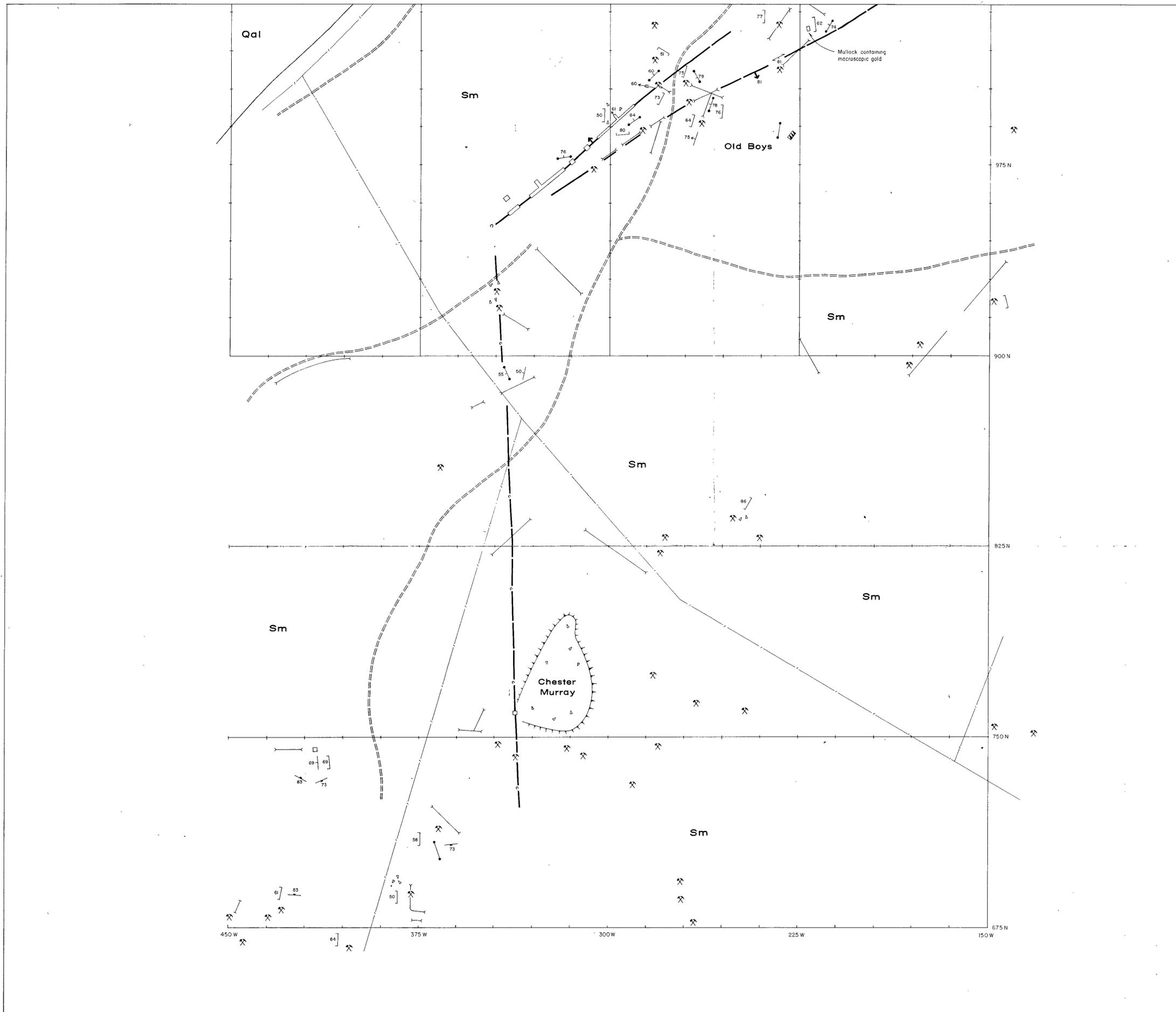
615174 74-994

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GEOPHOTO RESOURCES CONSULTANTS
 SYDNEY AUSTRALIA



TEXINS DEVELOPMENT PTY LTD
 E.L. 6/68 NORTH EAST TASMANIA
MATHINNA AREA
 Volunteer-Old Boys-Chester Murray Grid
GEOLOGY 2018

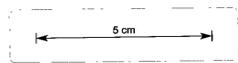
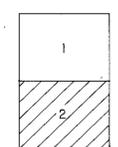
PROJECT 6/68 AUTHOR W Turner DATE June 1973 DWG NO A 187



LEGEND

- QUATERNARY Qal Alluvium
- SILURIAN MATHINNA GROUP Sm Slate and quartzite
- Fault, dashed where indefinite, dotted where concealed
 - Contact, dashed where indefinite
 - Field observed dip
 - Field observed vertical bedding
 - Cleavage, inclined
 - Cleavage, vertical
 - Joint, inclined
 - Joint, vertical
 - Quartz vein
 - Minor anticlinal fold
 - Trench or costean
 - Prospect
 - Shaft
 - Pit
 - Brecciation
 - Fence
 - Creek
 - Track

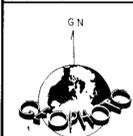
SHEET INDEX



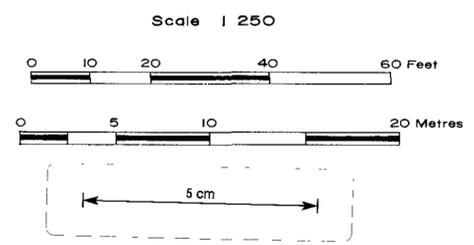
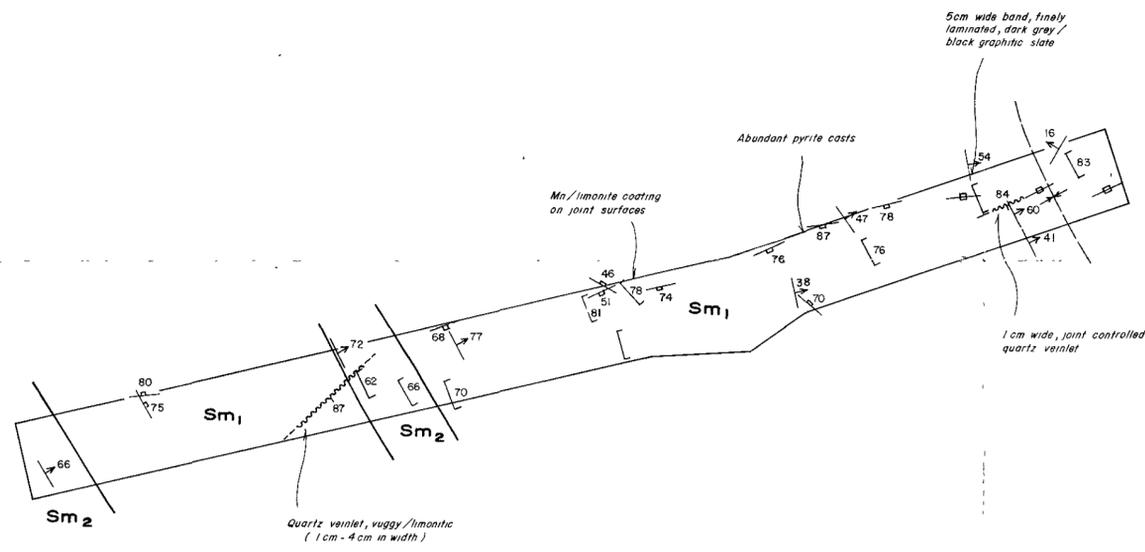
615175 74-994

TEXAS INSTRUMENTS INCORPORATED

GEOPHOTO RESOURCES CONSULTANTS
SYDNEY AUSTRALIA



TEXINS DEVELOPMENT PTY LTD
E.L. 6/68 NORTH EAST TASMANIA
MATHINNA AREA
Volunteer-Old Boys-Chester Murray Grid
GEOLOGY 2019



615176

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LEGEND

SILURIAN

- Sm₁ Slate, pale grey, weathering to green-grey, commonly compact / "black" with cleavage only poorly developed
- Sm₂ Slate, grey / dark grey

- 81 Bedding - inclined
- Bedding - vertical
- 79 Cleavage - inclined
- 74 Joint - inclined
- Joint - vertical
- 71 Quartz vein - attitude shown

- Geological boundary - dashed where indefinite
- Syncline - dashed where inferred

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GEOPHOTO RESOURCES

SYDNEY, AUSTRALIA

TEXINS DEVELOPMENT PTY. LTD.

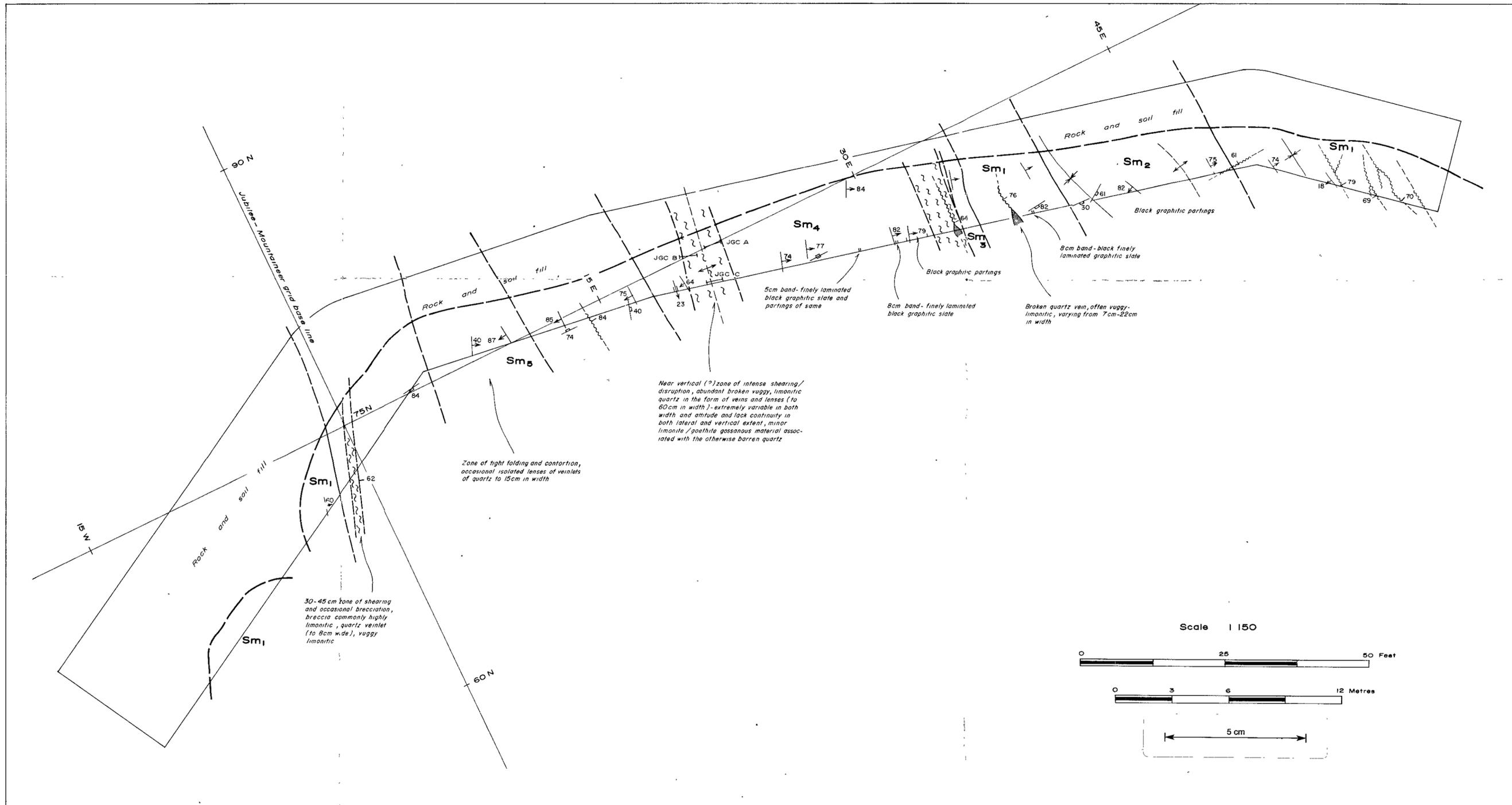
EL.6/68 NORTH EAST TASMANIA

MATHINNA AREA

Jubilee / Mountaineer Grid 2020

COSTEAN No. 1 on 225-N GRID LINE

PROJECT	6/68	AUTHOR	A.C. JOHNSTON	DATE	OCT. '73	DWG. NO.	A 197
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SILURIAN	Sm ₁	Slate, pale grey, generally highly weathered
	Sm ₂	Slate, red, weathering to tan or brown
	Sm ₃	Slate, dark grey/black often finely laminated
	Sm ₄	Slate, pale grey/khaki/brown, occasionally finely laminated, generally highly weathered
	Sm ₅	Slate, grey/dark grey graphitic partings and narrow bands finely laminated graphitic slate common throughout this unit

LEGEND

81	Bedding - inclined
+	Bedding - vertical
79	Cleavage - inclined
74	Joint - inclined
—	Joint - vertical
71	Quartz veining of order (2-10) cm in width
◆	Quartz veining (to scale)

---	Geological boundary - dashed where indefinite
~~~~~	Zone of intense shearing and disruption
---	Outcrop boundary
— —	Anticline - dashed where inferred
— —	Syncline - dashed where inferred
→→	Minor anticlinal structure
JGC A	Channel Sample location

615177 74-994

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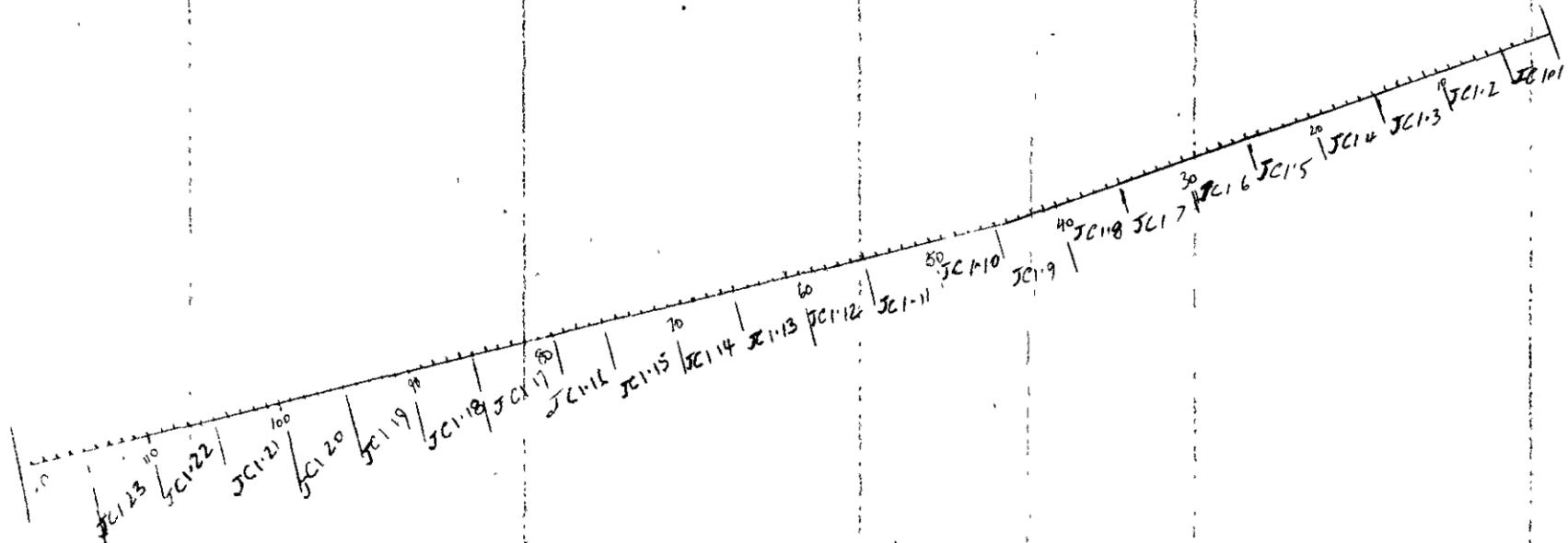
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 E.L.6/68 NORTH EAST TASMANIA

MATHINNA AREA 2021  
 Jubilee / Mountaineer Grid  
 COSTEAN No. 2 on 75N GRID LINE

PROJECT 6/68 AUTHOR A.C. JOHNSTON DATE OCT '73 DWG N° A 198

(Low broad chips) Channel

Samples



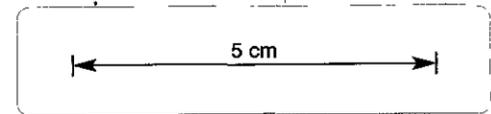
- JC101 - 1.05
- JC102 - 1.06 - 1.10
- JC103 - 1.011 - 1.15
- JC104 - 1.016 - 1.20
- JC105 - 1.021 - 1.25
- JC106 - 1.026 - 1.30
- JC107 - 1.031 - 1.35
- JC108 - 1.036 - 1.40
- JC109 - 1.041 - 1.45
- JC110 - 1.046 - 1.50
- JC111 - 1.051 - 1.55
- JC112 - 1.056 - 1.60
- JC113 - 1.061 - 1.65
- JC114 - 1.066 - 1.70
- JC115 - 1.071 - 1.75
- [JC116 - 1.076 - 1.79]
- [JC117 - 1.080 - 1.85]
- JC118 - 1.086 - 1.90
- JC119 - 1.091 - 1.95
- JC120 - 1.096 - 1.100
- JC121 - 1.101 - 1.105
- JC122 - 1.106 - 1.110
- JC123 - 1.111 - 1.115

TN SCALE 1:250

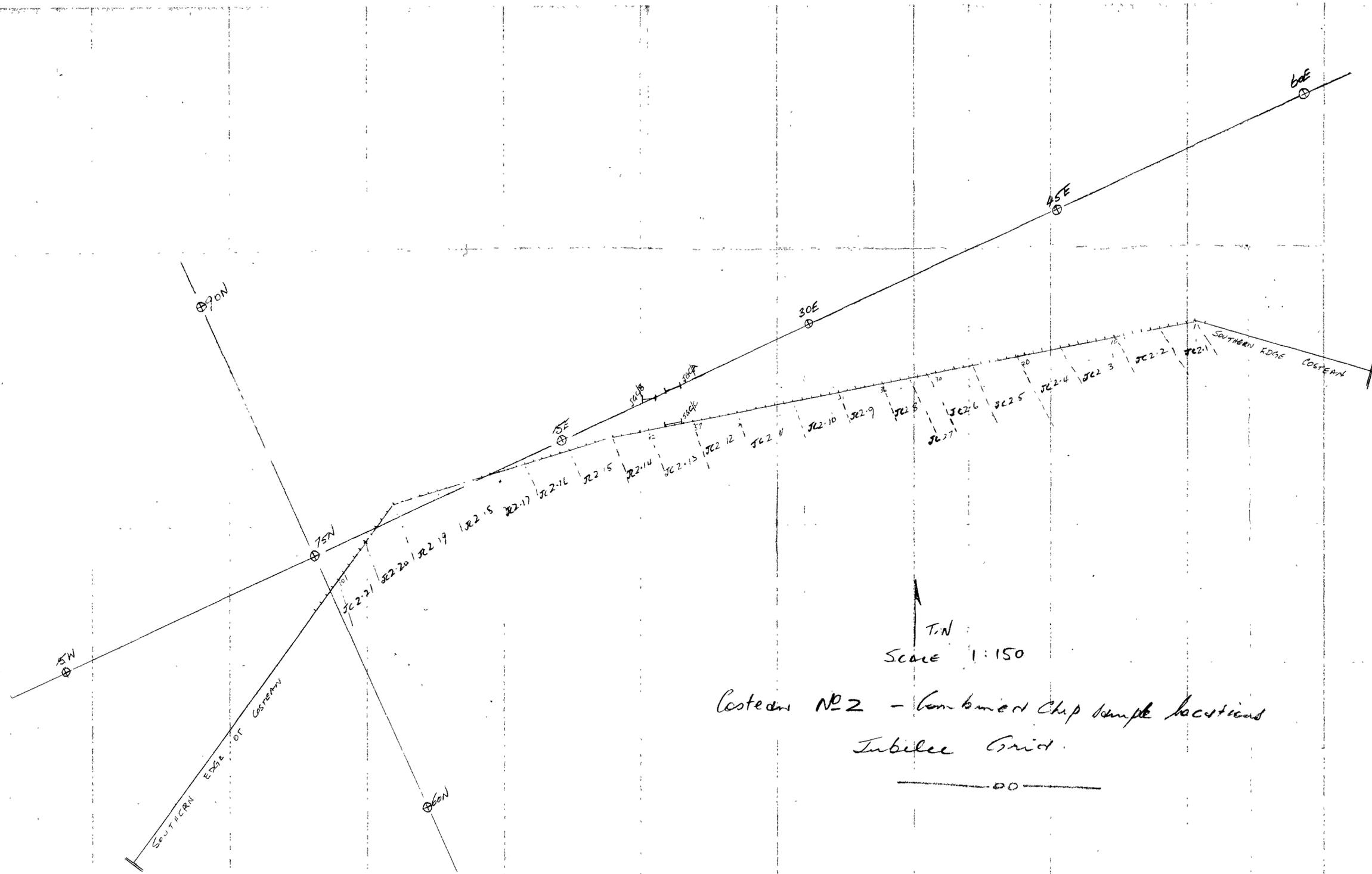
Location No 1 - Combined chip sample location

Jubilee Grid

615178



ADDI 74-994 2022

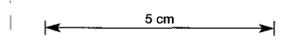


Costern No. 2 - Combed Chip Sample Locations  
 Jubilee Grid

- ↓ Sample Channels (Combed chips)
- JC2.1 (2.01 → 2.03)
  - JC2.2 (2.04 → 2.10)
  - JC2.3 (2.10 → 2.16)
  - JC2.4 (2.17 → 2.21)
  - JC2.5 (2.22 → 2.26)
  - JC2.6 (2.27 → 2.30)
  - JC2.7 (2.31 → 2.32)
  - JC2.8 (2.33 → 2.36 - Shear zone)
  - JC2.9 (2.37 → 2.41)
  - JC2.10 (2.42 → 2.46)
  - JC2.11 (2.47 → 2.52)
  - JC2.12 (2.52 → 2.57)
  - JC2.13 (2.58 → 2.62 - Shear zone)
  - JC2.14 (2.63 → 2.66)
  - JC2.15 (2.67 → 2.71)
  - JC2.16 (2.72 → 2.76)
  - JC2.17 (2.77 → 2.8079)
  - JC2.18 (2.80 → 2.8685)
  - JC2.19 (2.86 → 2.9291)
  - JC2.20 (2.93 → 2.9896)
  - JC2.21 (2.99 → 2.101)

ADD  
 74-994

615179



2023