

RENISON LIMITED

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24 SEP 1981			E.C.
DEPT. OF MINES			
REF. No. 8261/81			

ANNUAL REPORT
E.L. 17/77 - WILSON RIVER AREA
WESTERN TASMANIA
1980 - 1981

OPEN FILE

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18th September 1981

c.c. Mines Department (1)
Renison (2)

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1. SUMMARY

Work carried out in 1980-1981 consisted of a Regional stream sediment survey, with reconnaissance geological mapping and minor rock chip sampling. This work resulted in the outlining of anomalous areas worthy of further detailed ground follow up. It also emphasised the importance of the Ordovician Gordon Limestone as a potential mineralisation host.

Anomalous values occurred along the Devonian Meredith Granite contact, in areas of granite dykes in the Ordovician - Silurian sediments, in the Cambrian Crimson Creek Formation and associated with the Gordon Limestone. Results of the rock chip sampling confirmed these stream sediment results. Geological mapping indicated that the Gordon Limestone occurred along the granite contact for some distance and suggested that skarn type mineralisation may occur in the Gordon Limestone.

The above work cost \$60,358 to complete.

In 1981-82 it is proposed to expend \$138,509 on E.L. 17/77 in four main areas:

- i) The Southern Meredith Granite Margin between the Wilson and Huskisson Rivers.
- ii) The Tadpole Hill Area.
- iii) The Little Wilson - Wilson Rivers' Junction.
- iv) The Area 2 Block near the Huskisson River Bridge.

As the area is remote and inaccessible most of the work will be helicopter supported.

On the Southern Meredith Granite Margin it is proposed to cut two grids, the Wilson River and Laurel Creek Grids, totalling 27.1km and complete soil sampling, magnetics, rock chip sampling, geological mapping and electrical geophysical programs on them.

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At Tadpole Hill a small grid totalling 9.35km will be cut to infill the two northern most lines of the Harman River Grid. Similar work to that of the Wilson River Grid and the Laurel Creek Grid will be carried out.

At the junction of the Little Wilson River and the Wilson River where the Gordon Limestone comes in contact with the granite, it is proposed to cut infill lines on the Harman River Grid, totalling 10.55km. A similar work program to that of the other grids will be conducted here.

Stream sediment sampling will be carried out in the Area 2 Block in conjunction with that carried out on E.L. 2/63, the Mt. Lindsay Area, to define further anomalous areas.

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2. INTRODUCTION

E.L. 17/77 covers an area of 114 km² in a remote location to the north of Renison Bell and Mt. Lindsay, as shown in Plan 1. Access is possible by helicopter principally during the summer months of January to March.

Geologically the area consists of the South-East part of the Meredith Granite which intrudes Ordovician-Devonian sediments of the Huskisson Syncline and remobilised Cambrian Ultrabasic complexes. This area is considered very prospective as it lies between the Cleveland, Bischoff and Renison deposits and has similar rock units and structures. In addition this area has been virtually unexplored in any systematic fashion.

Much potential exists for ore deposits of the following kinds:

- a) Metasomatic replacement deposits in the Ordovician-Devonian sedimentary rocks and in altered Ultrabasic complexes at the granite contact.
- b) Hydrothermal deposits in fault zones some distance from the granite contact.
- c) Greisen zones and breccia zones within the granite.

Since the licence area was pegged, exploration efforts have been directed towards detecting these types of deposits using airborne geophysical surveys, photogeological surveys and reconnaissance ground surveys.

3. LICENCE TENURE

Renison Limited is the holder of E.L. 17/77. The licence is current to the 8th March 1982 and covers an area of 114 square kilometres.

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4. PREVIOUS WORK

A summary of work completed by other companies is presented by R. Schellekens in Progress Report for E.L. 17/77 Wilson River Area, Western Tasmania (September 1978). Work completed by Renison Limited has comprised:

- a) 1978 An Airborne (Input) E.M/Magnetics survey over the Area (Geoterrex Pty. Ltd.).
- b) 1979 A photogeological interpretation study of the Meredith Granite and surrounding area (Hunting Geology and Geophysics Pty. Ltd.).
- c) 1980 The bulldozing of 9km of access track into the Harman River area and the establishment of 26 line kilometres of gridlines with soil sampling, magnetics, gradient array I.P./resistivity readings and geological mapping undertaken.

Results of the above work are discussed in the 1978, 1979 and 1980 Annual Reports.

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5. WORK COMPLETED 1980-1981

The work carried out in 1980-81 was directed towards detecting geochemically or geologically anomalous areas and elucidating the stratigraphy of the licence area. \$60,358 was expended on this work and details are presented in Appendix 1. The following was carried out to attain this objective.

5.1 Regional Stream Sediment Sampling

A regional stream sediment program was conducted by contractor P. Ashton in the seven week summer field season from mid-January to the end of February. As the area is very remote with no vehicular access, the program was helicopter supported. 339 samples were collected over approximately 28km^2 at a frequency of approximately 1 per 200m of stream length. All small side creeks were sampled and a sample was taken in the main creek just above its junction with them. The large rivers, the Wilson and the Huskisson were not sampled due to the magnitude and varying provenance of their sediments. Stream sediment sample locations are shown on Plan 3(a).

The samples were wet sieved to -40 mesh in the field, over dried and then sieved to -80 mesh. They were submitted to the Renison Assay Laboratory and assayed by XRF for Sn, WO_3 , As and by AAS for Cu, Pb, Zn, Cr, Ni. Results for each element are appended as Plans 3(b) - 3(i). High Sn bearing samples were later assayed for acid soluble tin and the results are presented in Appendix 6.

Location of the samples in the field was by means of airphotographs (1:15,000 Burnie Concession coloured prints). A stream location map was produced from a combination of the old imperial topographic map sheets, photogeological map sheets and field reconnaissance. In some particularly overgrown, low-lying swampy areas, the course of a stream was dramatically different from that plotted on the old imperial maps. An access plan

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of the area showing the streams is appended as Plan 2.

5.2 Geological Mapping

Part of the aim of the 1981 Summer Field Program was to obtain a geological map of the region using the Hunting Geology and Geophysics Pty. Ltd. photogeological map as a base. During the seven week field period helicopter supported mapping was carried out by the author and A.V. Brown, a Mines Department geologist, from the various helipads and from landing sites in the Huskisson River. This mapping combined with previous Mines Department and Renison mapping, was used to compile the following geological maps at 1:10,000 scale: Corinna B4, D1, D2 and D4, included in the report as Plans 4(a), (b), (c) and (d). Extensive mapping by A.V. Brown is acknowledged here.

5.3 Rock Chip Sampling

As part of the regional mapping program, rock chip samples were collected from outcrops that were altered, contained sulphide and/or cassiterite or were interesting geologically. Locations of these samples are shown on the Access Plan - Plan 2. Most samples came from the Devonian Meredith Granite - Silurian/Ordovician sediments contact zone or from within the granite at abandoned workings at Tadpole Hill and Mt. Ramsay. Descriptions of the rocks are given in Appendix 3 and assays are shown in Appendix 5. Most of the rocks were assayed at the Renison Assay Laboratory for Sn and As by XRF, for Cu, Pb, Zn, SSn, by AAS and some were assayed for WO_3 and Fe by XRF. Five rock chip samples were petrologically described by D. Cowan and reported in Appendix 4 (Petrology Report CMS 81/3/48).

5.4 Logistics

All of the field work was carried out in the period from 12th January to 27th February, with helicopter

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access into 9 cut helipads and several landing sites in the Huskisson River. 339 stream sediment samples were collected and approximately 17.5km of walking track were cut and flagged by contractor Peter Ashton with 2 crews totalling 4 men. Geological mapping and rock chip sampling was carried out by a Mines Department geologist and offsider, and by a Renison Limited geologist and a student.

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6. RESULTS

6.1 Regional Stream Sediment Sampling

The 1981 Regional Stream Sediment Sampling Survey resulted in the outlining of a number of anomalous areas and these are plotted on Figure 1. The response of the Merton Hill mineralised area is also plotted for reference. A summary of the type, magnitude and probable source for each anomaly is presented in Table 1.

Anomalous values were determined on a statistical basis using frequency distributions. The median of the grouped data was selected for the regional background values, which usually coincided with the limit of detection of the method used for assaying the samples. A threshold value (the hatched areas on Figures 3-10) was taken as the 95th percentile for values of copper, lead, arsenic, nickel and tungsten. The threshold value for tin, zinc and chromium was adjusted to a lower percentile to take into account areas of higher local background values. Higher local background values may be attributed to drainage from mineralised bedrock, alluvial concentrations or certain rock units. The cross-hatched areas on Figures 3-10 are areas of highly anomalous values which were selected arbitrarily to highlight areas of interest.

6.1.1 Tin-Tungsten-Arsenic Association

The association of tin-tungsten-arsenic anomalies becomes apparent upon examination of Figures 1, 3, 4 and 5, and is related to the granite margin in two possible ways. Firstly the source of the anomalies may be a tin-tungsten-sulphide skarn or altered contact sedimentary rock. Secondly the creeks may be draining from tin-tungsten-sulphide-quartz veins in the granite and depositing sediment in the low lying areas adjacent to the granite margin. The areal extent of the tin anomalies is greater than for tungsten which is

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greater than for arsenic and is probably dependent on the mobility of the element and the amount of material originally shed. All of the anomalous tin values are for cassiterite not acid soluble tin as indicated in Appendix 6. This may indicate that cassiterite bearing veins in granite are a more likely source of the tin anomalies than acid soluble tin - minor cassiterite bearing skarns. Although acid soluble tin minerals may not survive transportation by streams.

6.1.2 Copper-Lead-Zinc-Arsenic Association

The copper-lead-zinc-minor arsenic anomaly association is related to the granite margin, to granite dyking and to certain rock units. Altered possibly mineralised contact sedimentary rocks are the probable source for these anomalies adjacent to the granite margin or to granite dykes. "Anomalous" values on certain rock units such as the Devonian Bell Shale are probably higher local background values. The areal extent and amount of response of the anomalies as shown in Figures 5,6,7 and 8, increases from copper to lead to zinc. This probably reflects the relative mobility and dispersion of these elements. Another influencing factor is the amount of the element being shed which is dependent on the nature of the original rock. Arsenic appears to be associated with both tin-tungsten and with copper-lead-zinc.

6.1.3 Nickel and Chromium Association

The association of nickel and chromium anomalies is related to source rocks with higher local background levels of these elements. The Cambrian ultrabasic rocks have very high local background levels while the Bell Shale has slightly higher local background levels. Nickel and Chromium anomalies are shown on Figures 9 and 10.

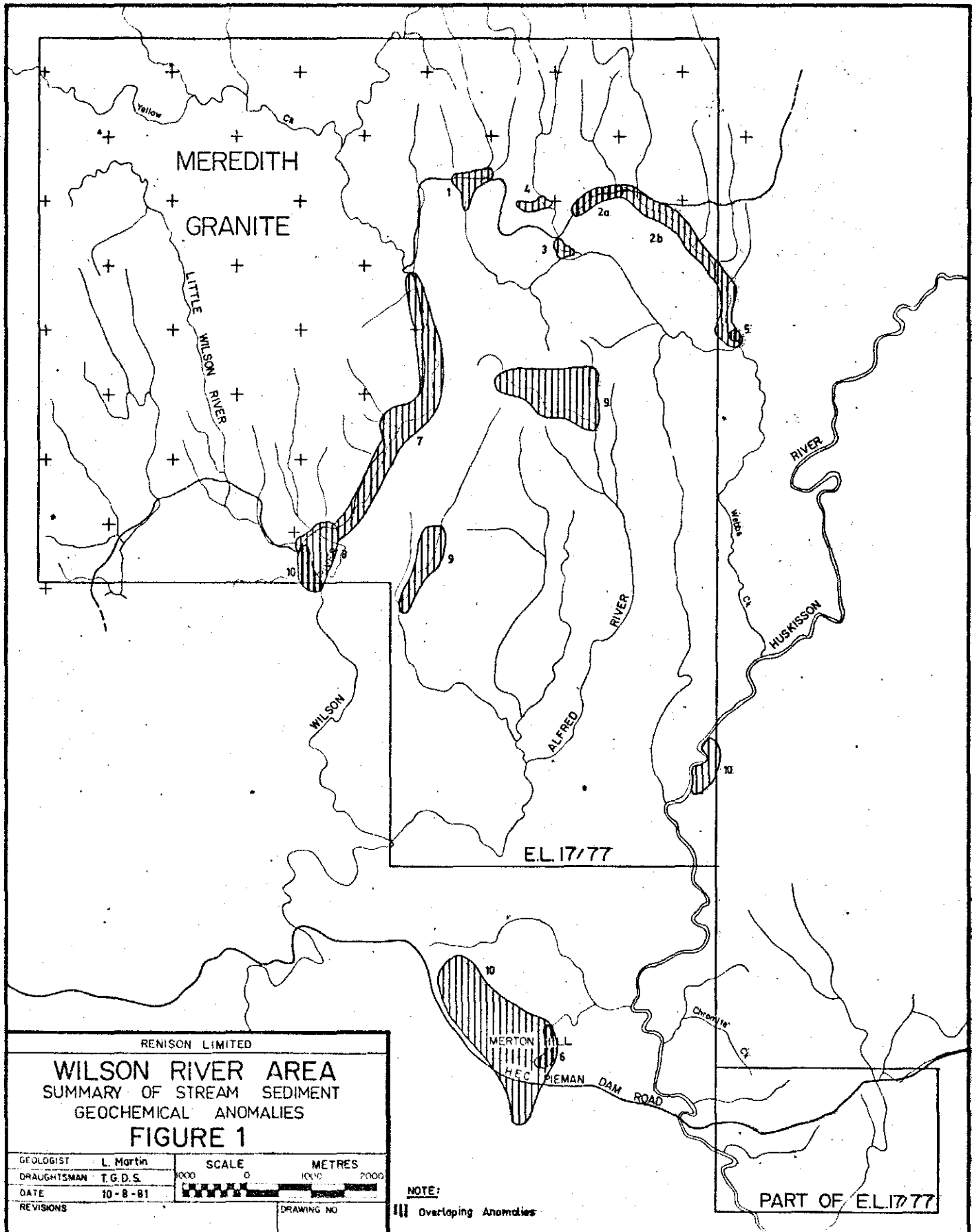
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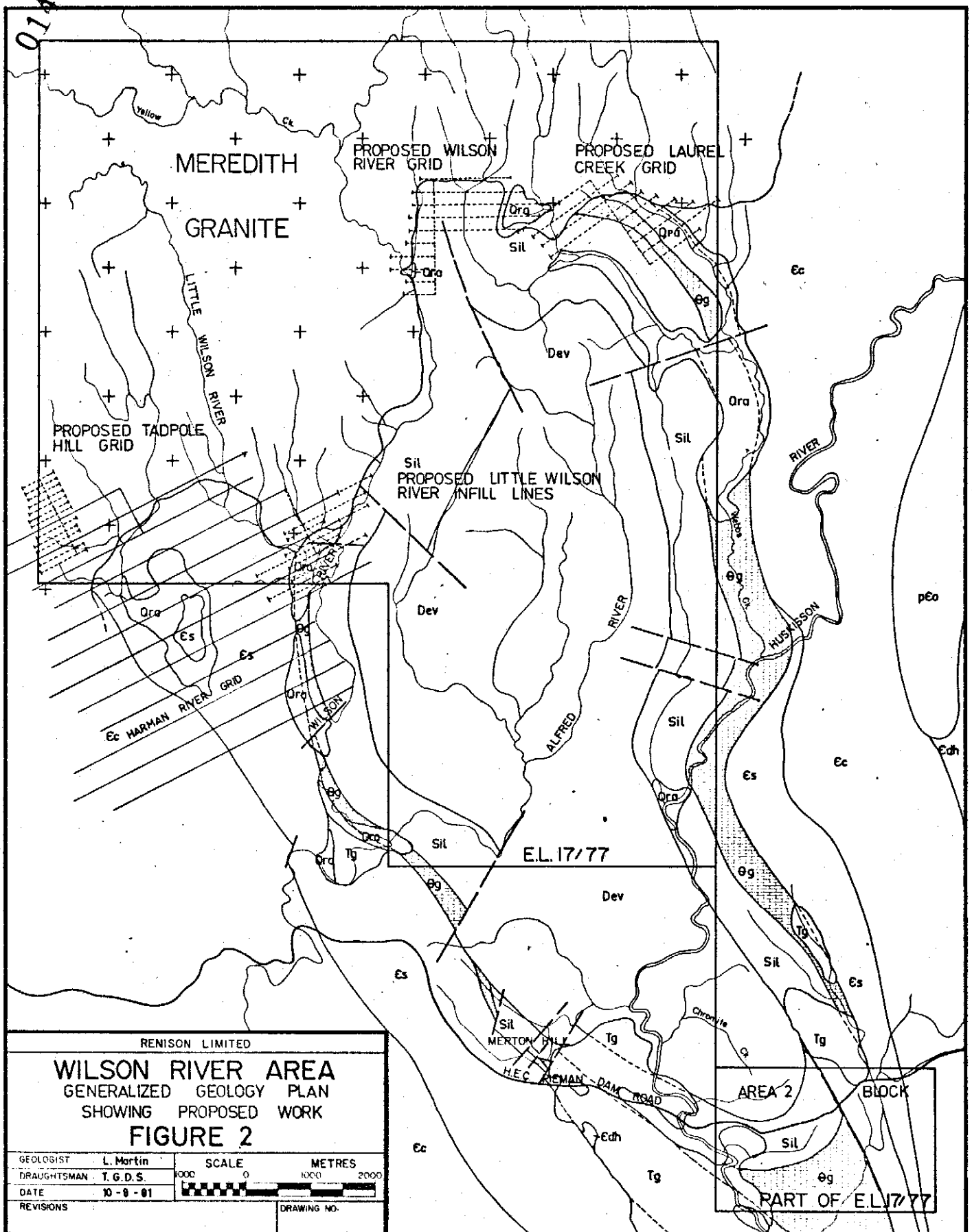
10.

TABLE 1

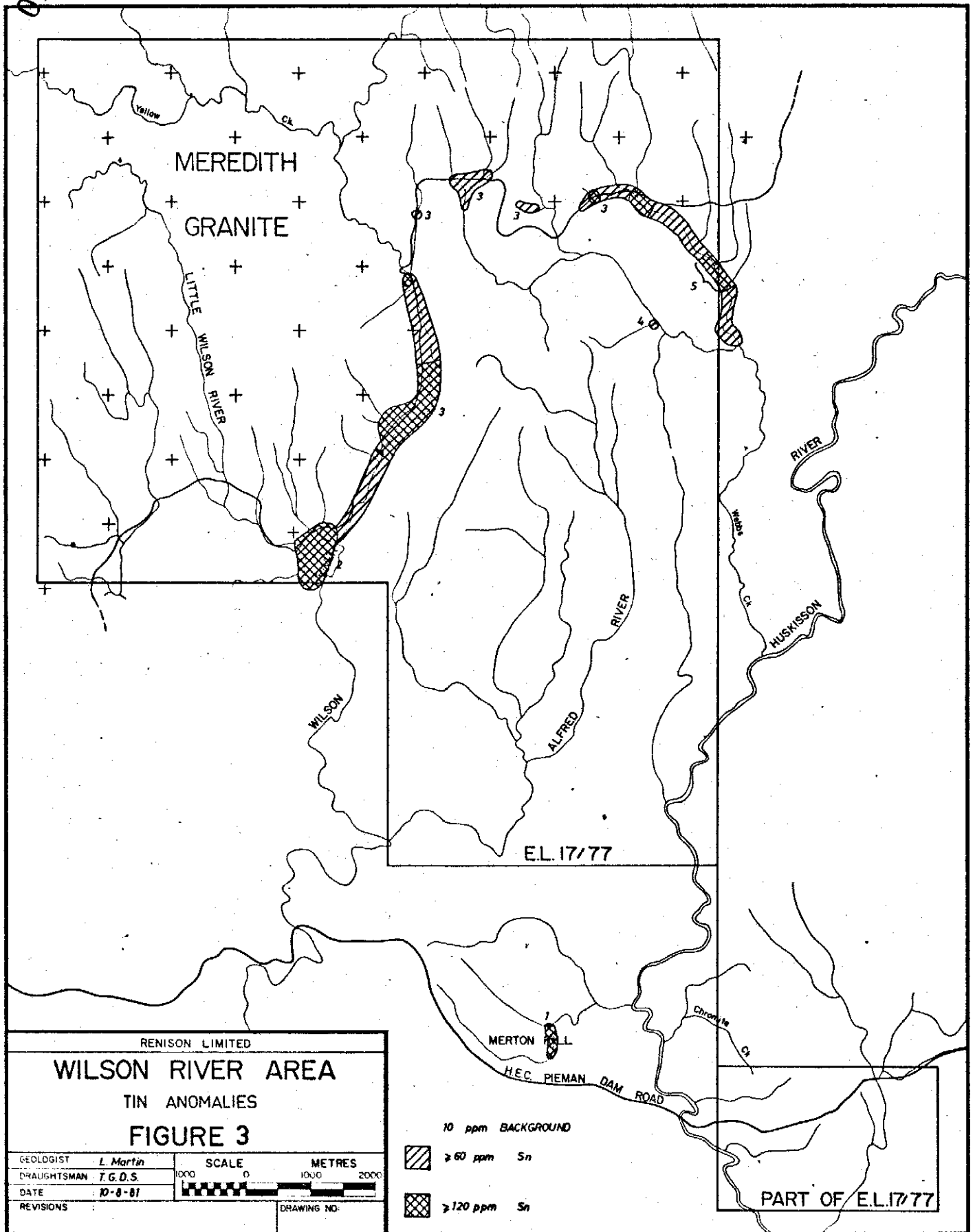
ANOMALY TYPE	GEOCHEMICAL ANOMALY		GEOPHYSICAL ANOMALY	PROBABLE SOURCE
	STRONG	WEAK		
1	-	Sn, WO ₃ , As Patchy Cu, Pb, Zn	Two adjacent Aeromagnetic anomalies. Area of Input E.M. channel 4 anomalies.	Altered Ordovician and Silurian rocks at granite contact (possibly skarns) and/or draining Sn-WO ₃ bearing granite.
2a	Sn, Pb, Zn	Cu	Aeromagnetic anomaly. One Input E.M. channel 5 and several channel 4 anomalies.	Altered Ordovician rocks at granite contact (possibly skarns).
2b	Sn in Places	Sn, WO ₃ , As Patchy Cu	-	Diluted material from Anomaly 2a with incoming material from altered Cambrian Crimson Creek Formation rocks at granite contact, and/or draining Sn-WO ₃ bearing granite.
3	Cu, Pb, Zn	As	Area of Input E.M. channel 4 anomalies.	Altered Silurian sedimentary rocks adjacent to granite dykes.
4	-	Sn, WO ₃ , As	-	Sn-WO ₃ -minor sulphide veins in granite.
5	Cu, Zn	Pb, Ni, Cr	Blanketed by high Aeromagnetic reading in Cambrian Crimson Creek Formation. Area of Input E.M. channel 4 anomalies, with one channel 6 and two channel 5 anomalies.	Possible mineralised unit in Cambrian Crimson Creek Formation.
6	Sn, Pb, Zn	Cu, As	Blanketed by high Aeromagnetic and Input E.M. readings in Cambrian Ultrabasics.	Merton Hill mineralised fault zone.
7	Sn	Sn with patchy As, WO ₃ , Cu, Zn, Pb, Cr	-	Altered Ordovician and Silurian rocks at granite contact (possibly skarns in places) and/or draining from Sn-bearing granite.
8	Sn	Patchy Zn, Pb, WO ₃	Blanketed by high Aeromagnetic and Input E.M. readings in Cambrian Ultrabasics.	Little Wilson River Alluvial Tin Field; tin originating from Sn-bearing granite and concentrated in swamp or from Sn-bearing skarn where Ordovician Gordon Limestone comes in contact with granite
9	Zn	Cu, Pb, Cr, Ni	-	Higher local background level in Devonian Bell Shale.
10	Ni, Cr	Patchy Cu, As, Pb, Zn	Very high Aeromagnetic readings. Numerous channel 5 and 6 anomalies.	Very high local background level from Cambrian Ultrabasics.

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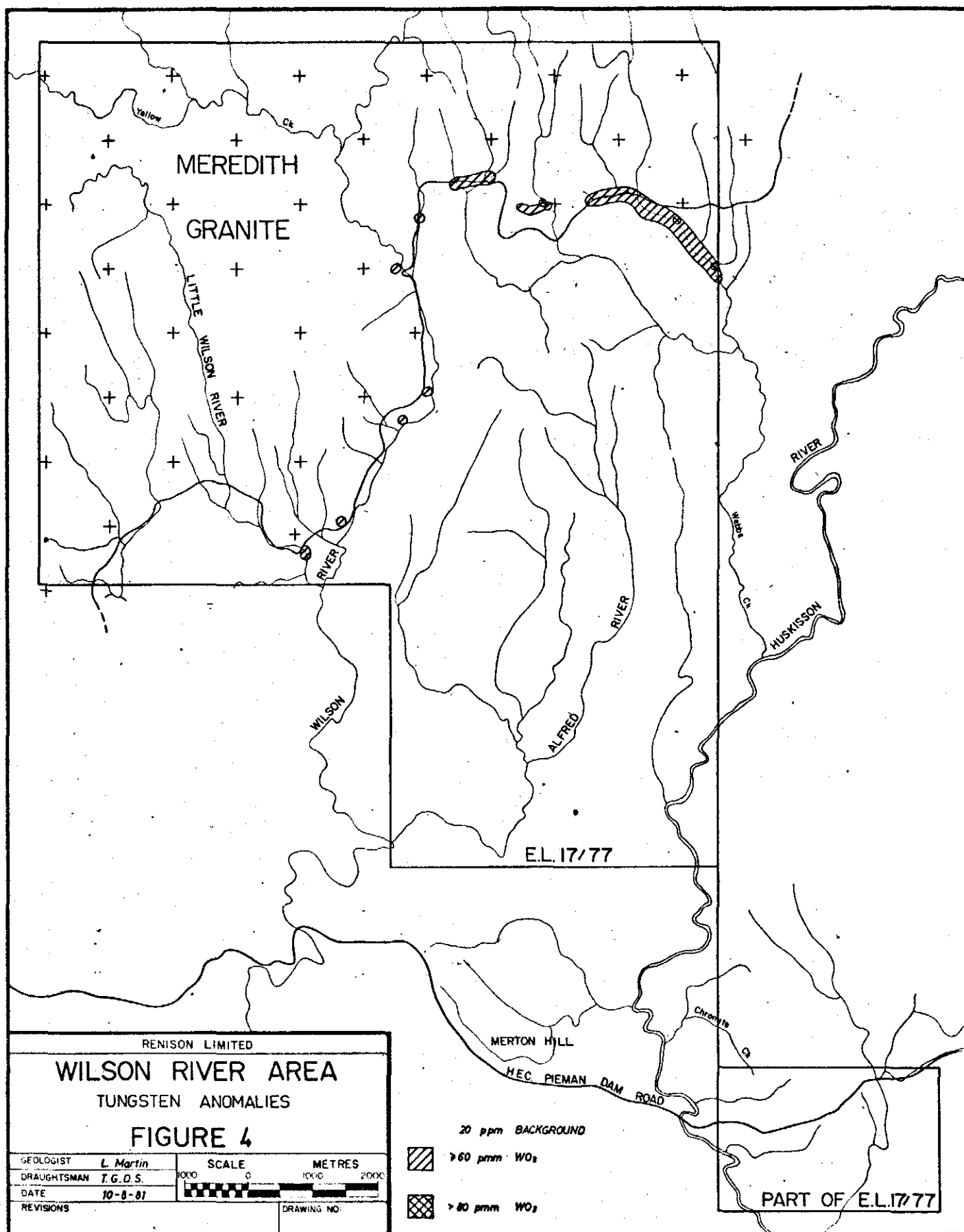




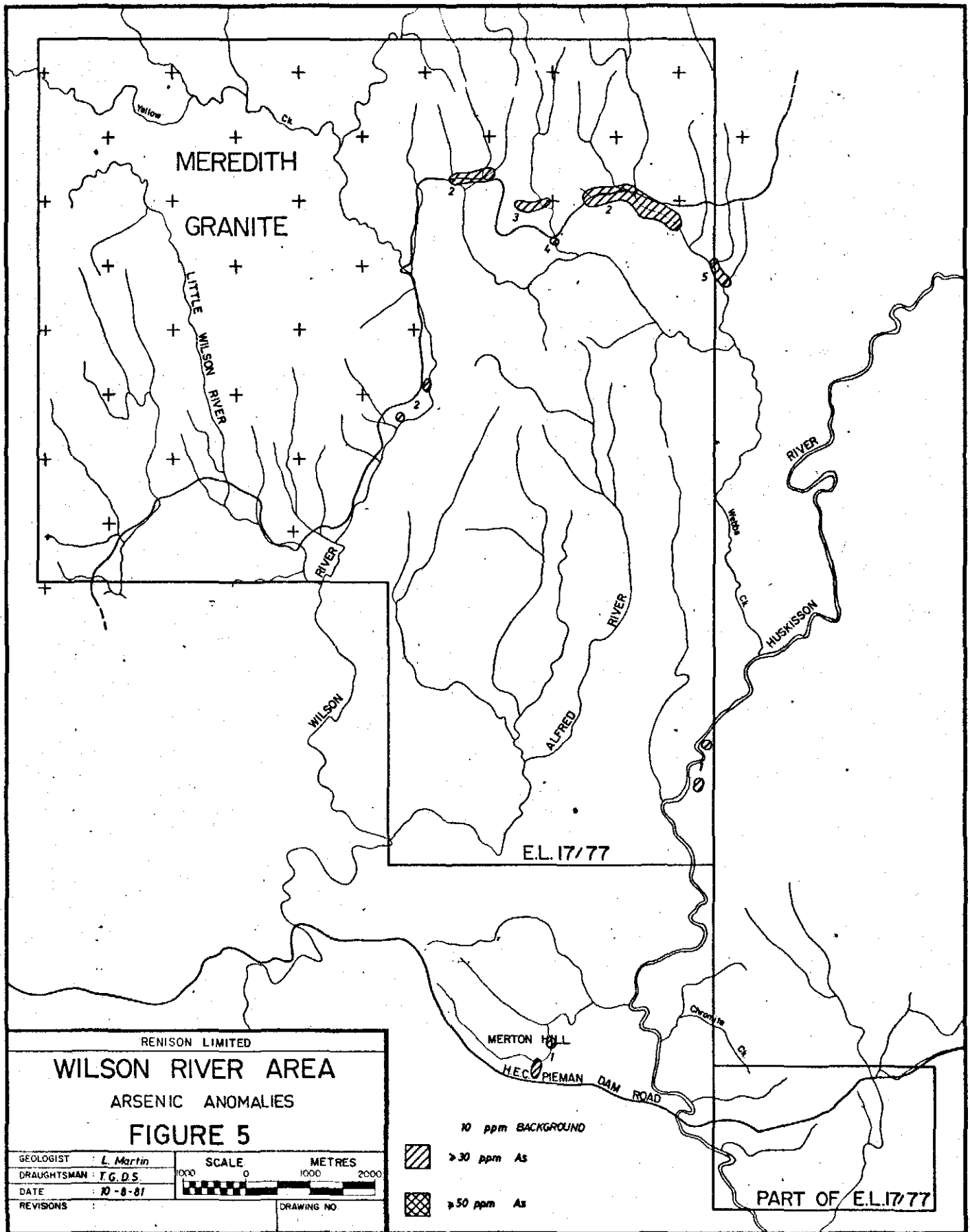
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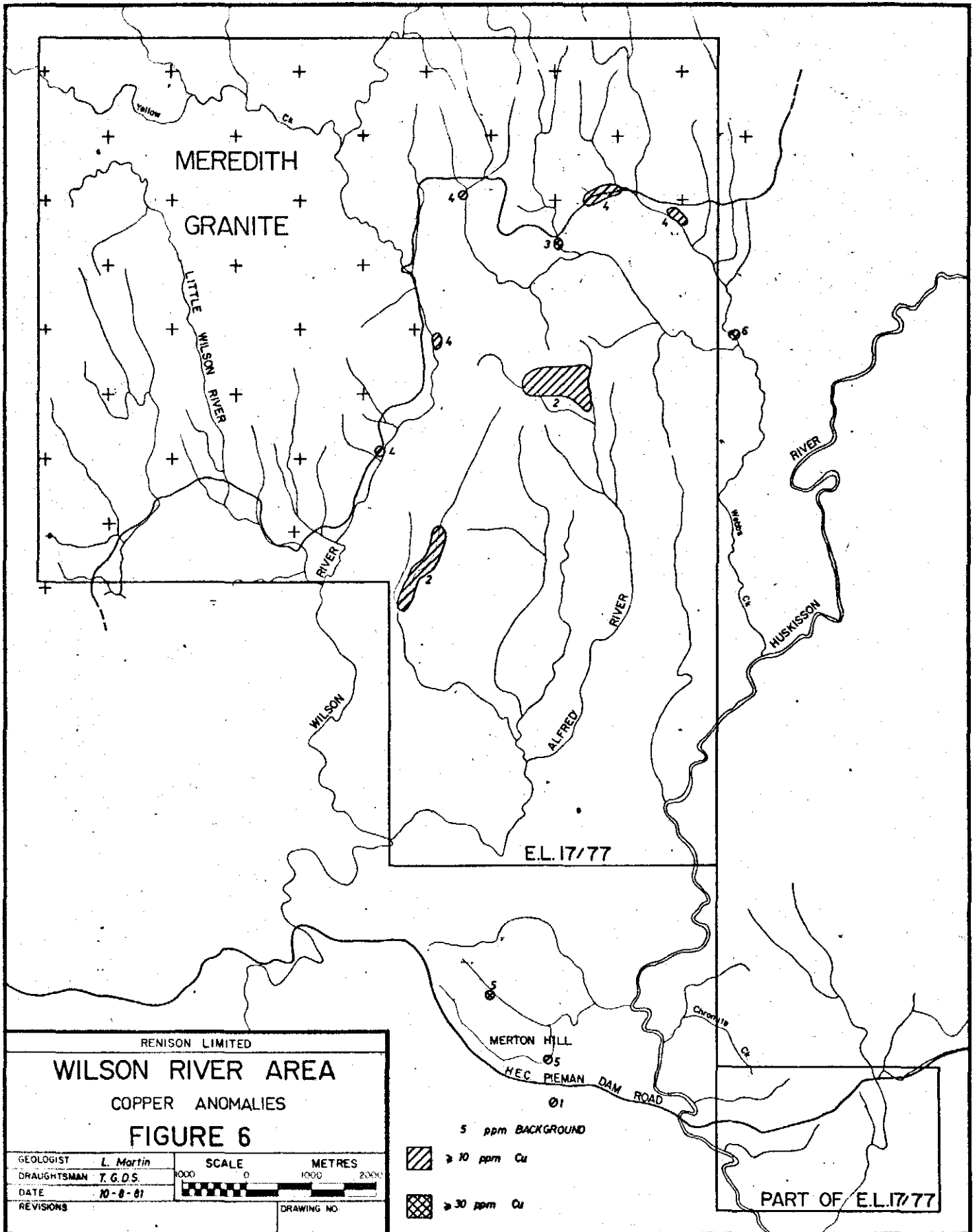


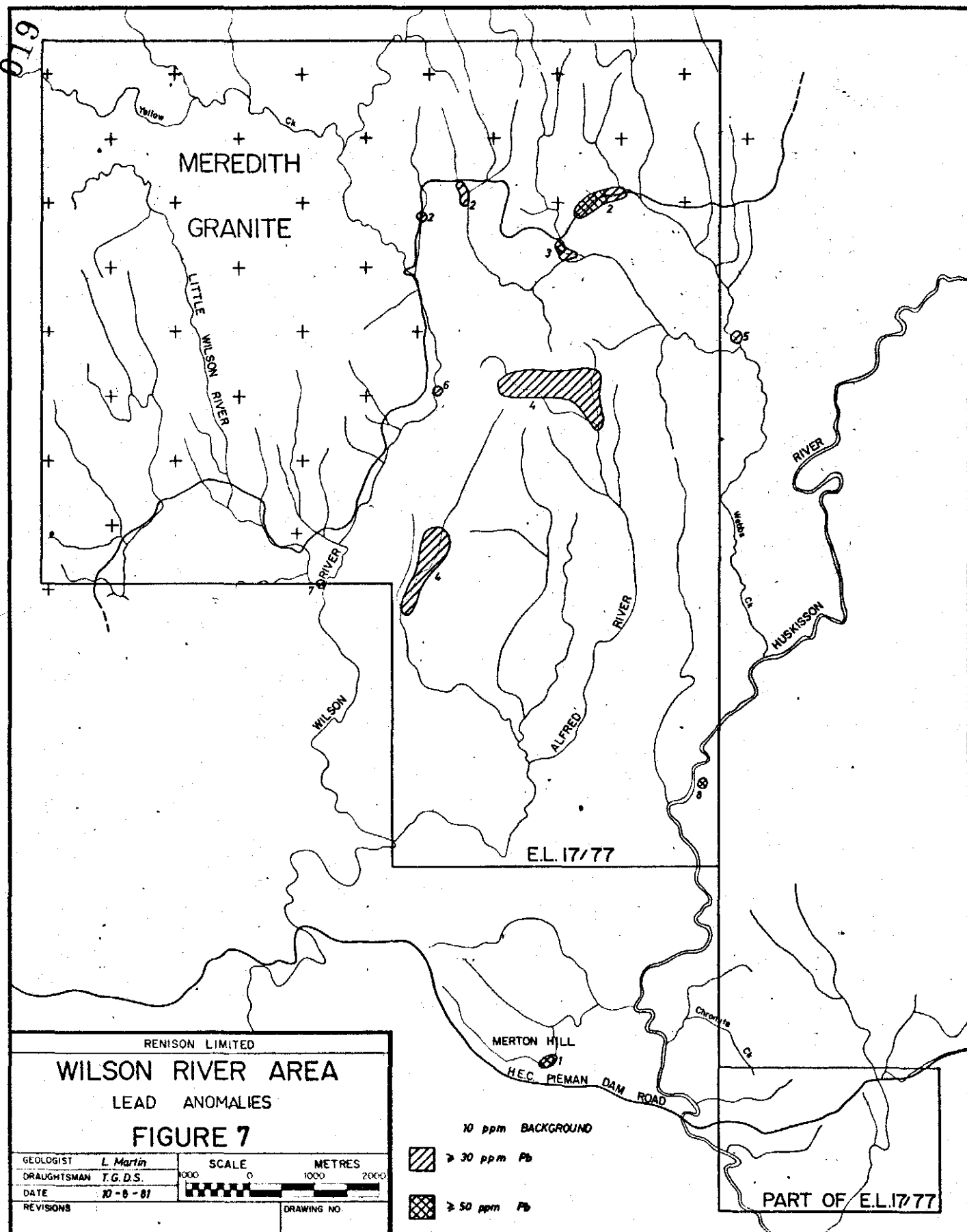
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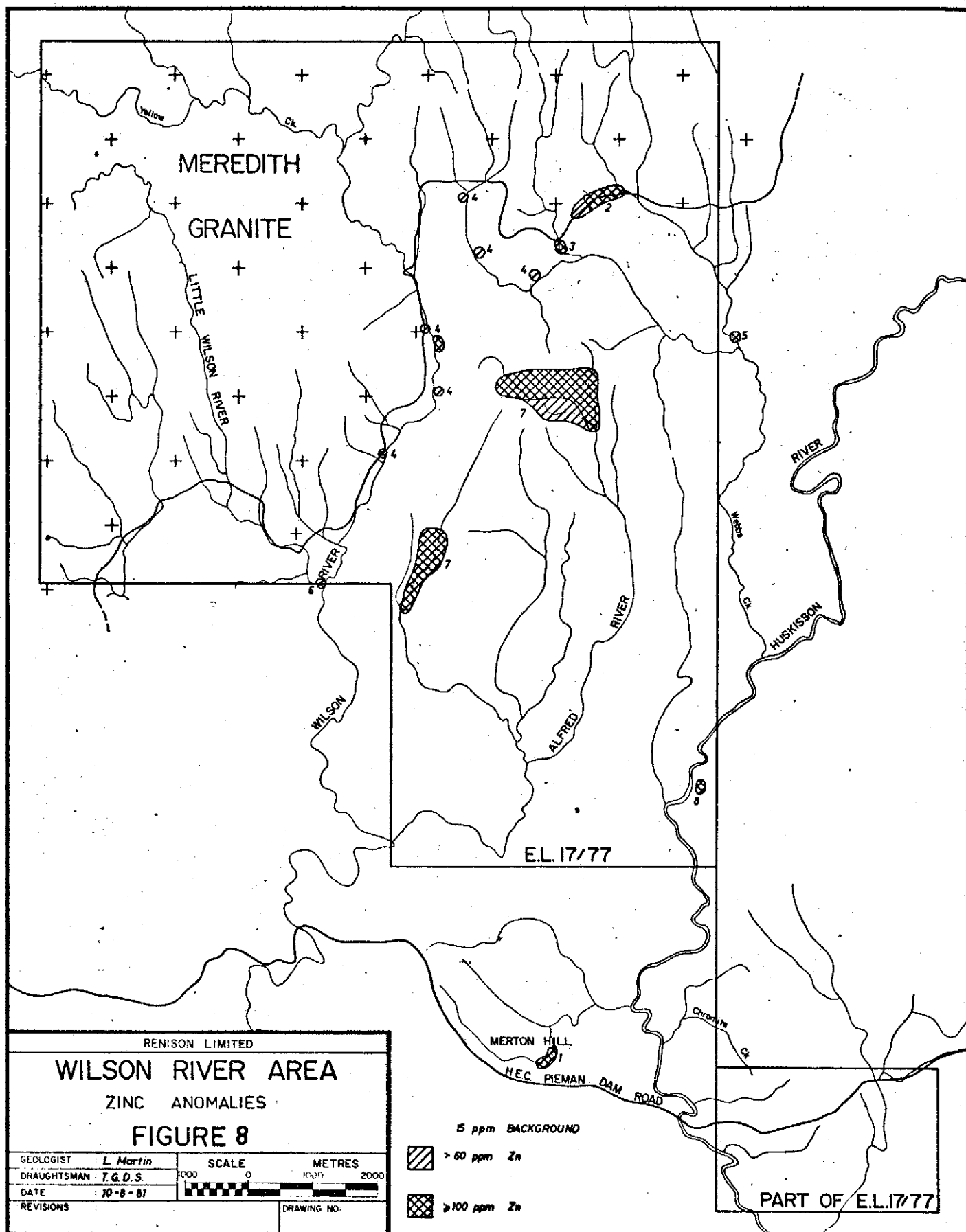




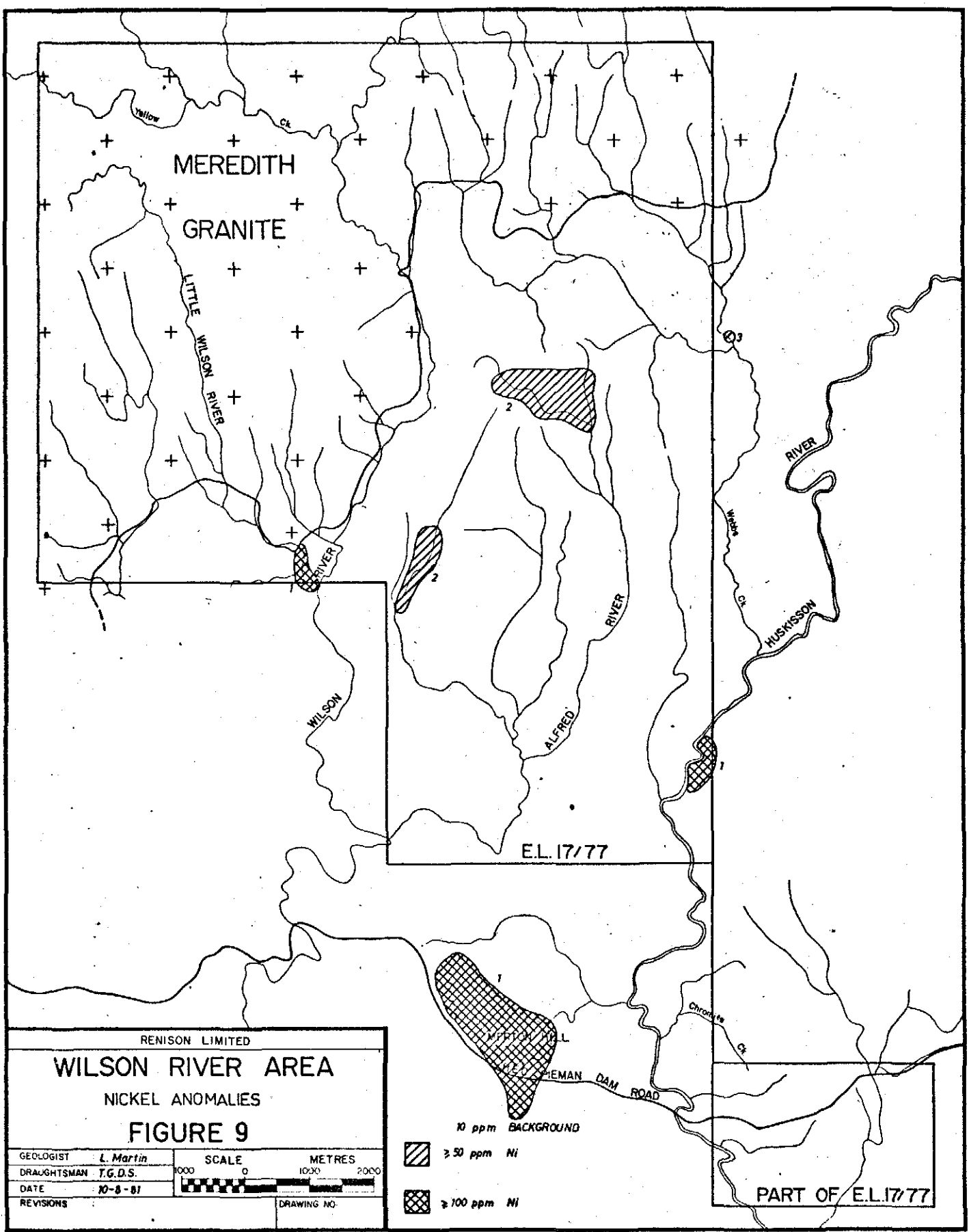


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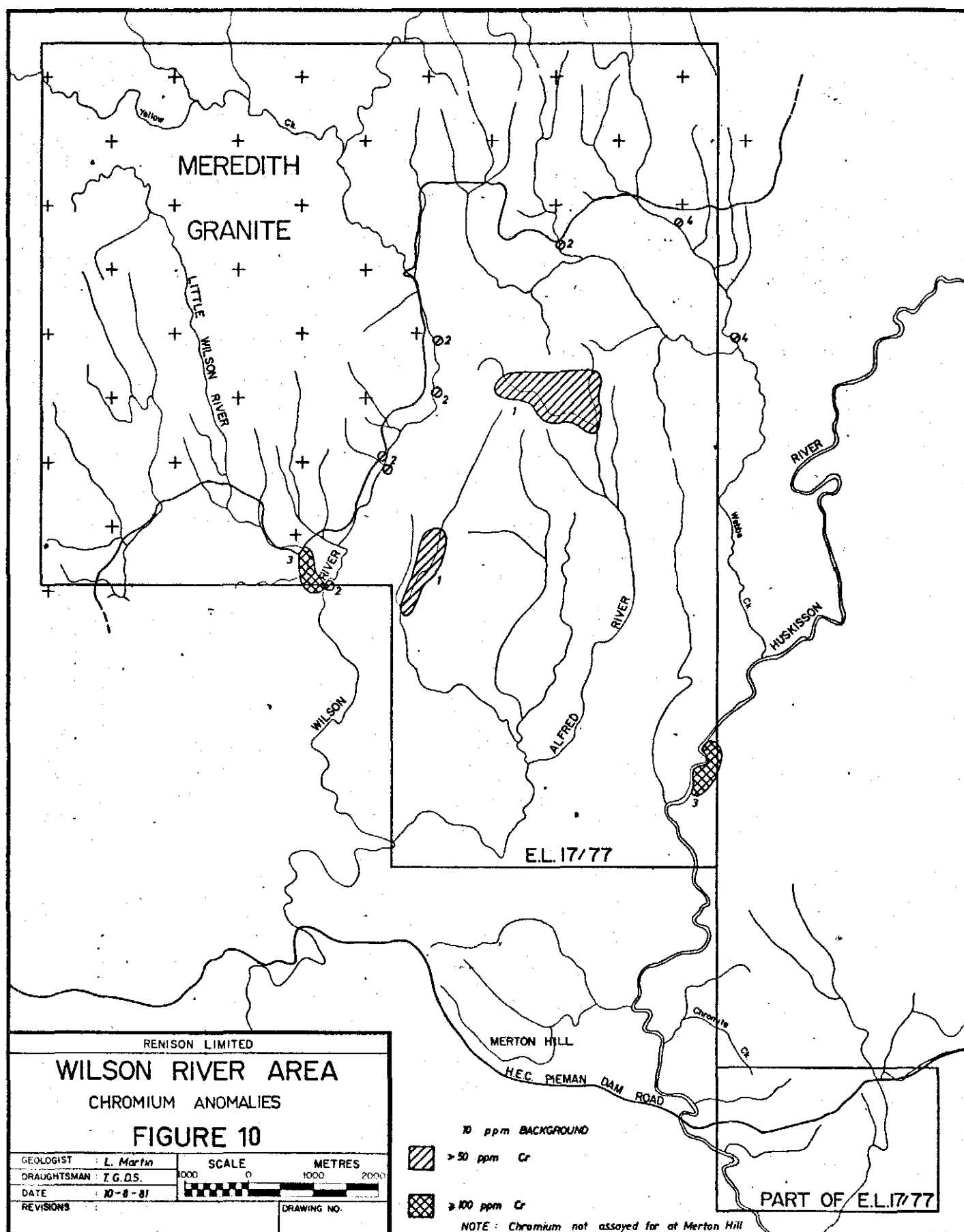


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Figure 3 Tin Anomalies (refer to Plan 3b)

1. Sn-Pb-Zn mineralisation at Merton Hill.
2. Draining Sn-bearing granite and/or Sn-bearing skarn zone of Ordovician Gordon Limestone.
3. Altered rocks at granite contact (possibly skarns) and/or draining Sn-bearing granite.
4. Unknown source for spot high value in Silurian sedimentary rocks.
5. Draining possible mineralised unit within the Cambrian Crimson Creek Formation.

Figure 4 Tungsten Anomalies (refer to Plan 3c)

Draining from altered rocks at granite contact (possibly skarns) and/or draining from tungsten bearing veins in granite.

Figure 5 Arsenic Anomalies (refer to Plan 3d)

1. Associated with the sheared Cambrian Ultrabasic boundary.
2. Altered rocks at granite contact (possibly skarns) and/or draining from arsenopyrite bearing veins in granite.
3. Draining from arsenopyrite bearing veins in granite.
4. Associated with Cu-Pb-Zn alteration adjacent to granite dyking.
5. Draining possible mineralised unit within the Cambrian Crimson Creek Formation and associated with high Sn values.

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Figure 6 Copper Anomalies (refer to Plan 3e)

1. Copper bearing veins associated with sheared Cambrian Ultrabasics boundary.
2. Higher local background values in Devonian Bell Shale.
3. Associated with Cu-Pb-Zn alteration adjacent to granite dyking.
4. Altered rocks at granite contact (possibly skarns).
5. Associated with Sn-Pb-Zn mineralisation at Merton Hill.
6. Associated with major fault (possibly mineralised) cutting Ordovician Gordon Limestone and Cambrian Crimson Creek Formation.

Figure 7 Lead Anomalies (refer to plan 3f)

1. Sn-Pb-Zn mineralisation at Merton Hill.
2. Altered rocks at granite contact (possibly skarns).
3. Cu-Pb-Zn alteration associated with granite dyking.
4. Higher local background values in Devonian Bell Shale.
5. Associated with major fault (possibly mineralised) cutting Ordovician Gordon Limestone and Cambrian Crimson Creek Formation.
6. Unknown source for spot high value in Silurian sedimentary rocks.
7. Draining skarn zone of Ordovician Gordon Limestone.
8. Lead bearing veins associated with sheared Cambrian Ultrabasics boundary.

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Figure 8 Zinc Anomalies (refer to Plan 3g)

1. Sn-Pb-Zn mineralisation at Merton Hill.
2. Altered rocks at granite contact (possibly skarns).
3. Cu-Pb-Zn alteration associated with granite dyking.
4. Unknown source for spot values in Silurian sedimentary rocks.
5. Associated with major fault, (possibly mineralised), cutting Ordovician Gordon Limestone and Cambrian Crimson Creek Formation.
6. Draining skarn zone of Ordovician Gordon Limestone.
7. Higher local background values in Devonian Bell Shale.
8. Zinc bearing veins associated with sheared Cambrian Ultrabasics boundary.

Figure 9 Nickel Anomalies (refer to Plan 3h)

1. Very high local background level from Cambrian Ultrabasics.
2. Slightly higher background level for Devonian Bell Shale.
3. Associated with major fault, (possibly mineralised,) cutting Ordovician Gordon Limestone and Cambrian Crimson Creek Formation.

Figure 10 Chromium Anomalies (refer to Plan 3i)

1. Slightly higher background level for Devonian Bell Shale.
2. Chromite bearing Crotty Quartzite.
3. Very high local background level from Cambrian Ultrabasics.
4. Associated with major fault (possibly mineralised) cutting Ordovician Gordon Limestone and Cambrian Crimson Creek Formation.

6.2 Geological Mapping

As a result of the geological mapping in the 1981 field season, the importance of the Ordovician Gordon Limestone as a potential mineralisation host has been realised. The Gordon Limestone has been mapped as extending up to the contact with the Meredith Granite and in places extending along the contact for some distance. Anomalous stream sediment survey results and skarn type rocks are associated with these contact zones, and may indicate a mineralised skarn at depth.

Geological mapping has also delineated the granite contact and highlighted areas where metasomatic replacement deposits may occur in the sedimentary rocks adjacent to the granite. Anomalous stream sediment survey results are also associated with the granite contact.

Large scale faulting has been interpreted from air photographs and by large discontinuities of rock units in the field. These faults are often in contact with the granite and may be conduits for ore bearing fluids. Potential areas of mineralisation are intersections of limestone units, either Ordovician Gordon Limestone or the limestone member of the Silurian Amber Shale, with these large scale faults.

6.3 Rock Chip Sampling

Several rocks were collected for stratigraphic reference only and were not assayed. The rocks that were assayed can be divided into four main groups according to their origin:

a) Rocks at the contact with the Meredith Granite

(Samples: 1/1, 4/1, 4/2, 5/1, 5/4, 6/1, 6/2, 6/3, 6/4, 6/5, 6/6, 7/1, 8/1, 8/2, 8/3, 8/4, 8/5, 8/6).

They have been mapped as Silurian and Ordovician sedimentary rocks and are altered, iron-oxide stained clays often with grains of magnetite/haematite. In places they have been altered to massive magnetite/haematite. Petrographic examination by D. Cowan

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(Appendix 4) of sample 5/1 and adjacent sample 5/2, has shown that they are probably skarn rocks. As the other samples occur in similar positions with respect to the granite and show a similar type of alteration, they may also be altered and weathered skarn rocks. Several of the samples have anomalous amounts of one or more of the following:

SSn, Cu, Pb, Zn, As, and WO_3 and may indicate the presence of mineralised skarn at depth.

b) Rocks from Tadpole Hill:

(Samples: 2/1, 2/2, 2/3, 2/4)

These rocks are altered tourmalinized granite and are associated with old abandoned workings, a tin-arsenic anomaly and an I.P. anomaly. The samples were collected from shaft dumps and only two of the samples contain interesting tin values.

c) Boulders from Mt. Ramsay Alluvial Workings:

(Samples: 10/1, 10/2, 10/3)

The samples are similar to those from Tadpole Hill but contain only trace amounts of tin as cassiterite.

d) Quartz-tourmaline veined granite rocks

(Samples: 1/2; as floaters 1/4, 5/5)

Some of the samples contain cassiterite and/or base metal sulphides in the quartz-tourmaline veins but as the veins are of limited width and extent, they are of limited economic potential.

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7. CONCLUSIONS AND RECOMMENDATIONS

Work in 1979-81 outlined anomalous areas worthy of further detailed ground follow up and also emphasised the importance of the Ordovician Gordon Limestone as a potential mineralisation bearing unit. It is proposed in 1981-82 to concentrate efforts into 4 main areas (shown on Figure 2).

1. The Northern Contact zone of Ordovician/Silurian sedimentary rocks with the Devonian Meredith Granite.
2. The Little Wilson - Wilson Rivers' Junction.
3. The Tadpole Hill area.
4. Area 2 Block of the Licence Area.

Targets for this follow up work are:

- a) Tin-tungsten skarn type mineralisation in Ordovician Gordon Limestone.
- b) Replacement deposits at the granite contact with the Silurian sedimentary rocks.
- c) Mineralized fault zones associated with granite dykes.
- d) Greisen zones within the Meredith Granite.

\$138,509 has been budgetted for this work and details are given in Appendix 2.

Almost all of the work should be carried out in a 7 week period starting 11th January and should be helicopter supported.

7.1 The Northern Contact Zone

As a result of the Regional Stream Sediment Survey (1981) the northern contact zone of the Ordovician-Silurian sedimentary rocks with the Meredith Granite, is shown to be moderately anomalous with respect to tin-tungsten-arsenic, and with copper-lead-zinc. Several airborne magnetic and Input E.M. Anomalies also occur in this area (Interpretation Report - Airborne E.M. (Input) Survey over the Wilson River Area, Tasmania for

Renison Limited by G. Butt 1978 - Geoterrex Pty. Ltd.). The sedimentary rocks on the eastern part of the margin are interpreted as Ordovician Gordon Limestone. Sediments near the contact zone are usually very altered, iron oxide stained and frequently contain magnetite/haematite.

Petrographic examination of two of these rocks indicates that they may be skarn type rocks (Appendix 4 - WRRC 5/1, 5/2).

In order to investigate these anomalies further and to allow for the varying orientation of the sedimentary rock units, it is proposed to establish two grids in this area; the Wilson River Grid totalling 13.9km and the Laurel Creek Grid totalling 13.2km (Figure 2, Plan 4a).

Both grids should be soil sampled every 25m and have magnetic readings taken every 10m. Some gradient I.P. should be carried out depending on timing during the 7 week helicopter supported summer program.

7.2 The Little Wilson River - Wilson River Junction

In this area highly anomalous tin values are indicated by the Regional Stream Sediment Survey (1981) and by soil sampling on the Harman River Grid (1980). The area is highly prospective from a geological point of view as the Ordovician Gordon Limestone and the Cambrian Ultrabasics are in contact with the Meredith Granite. An altered highly weathered 'pyroxenite' skarn type rock occurs in the limestone near the granite contact. Old trenching also occurs in the area.

The establishment of 10.55km of infill grid lines is recommended on the Harman River Grid as shown on Figure 2 and on Corinna D1 and D2 Geology Plans (4b) and (4c). Soil samples will be taken every 25m, magnetic readings every 10m and Pole-dipole I.P. carried out on 25m spacings. More detailed geological mapping will be carried out to delineate the granite contact and to investigate the possible 'skarn' body.

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7.3 Tadpole Hill Area

In 1972-73, Comstaff Pty. Ltd., as the result of a reconnaissance stream sediment survey, established a 4.3km grid over Tadpole Hill and outlined a cassiterite-tourmaline greisen of uneconomic value. The Harman River Grid was extended over the area in 1980 by Renison Limited and resulted in several substantial geochemical anomalies and minor geophysical anomalies worthy of further investigation.

With a target of cassiterite bearing greisen zones in mind, it is proposed to cut a 9.35km grid over the area, soil sampling every 25m and taking magnetic readings every 10m. Pole-dipole I.P. on 25m spacings should also be carried out over the area. The configuration of the grid is shown on Corinna D1 Geology Plan - Plan 4b.

7.4 Area 2 Block

As a result of Mines Department mapping and P.R. Boshier's photogeological interpretation, the Area 2 Block (shown on Figure 2) is mapped as containing large scale faults and large areas of Ordovician Gordon Limestone. Merton Hill Sn-Pb-Zn-Ag prospect is situated nearby and the mineralised fault zone may extend down into this area. As with large parts of E.L. 17/77 this area has been essentially untouched.

It is proposed to reconnaissance stream sediment sample the area in conjunction with the stream sediment sampling on E.L. 2/63 Mt. Lindsay Area. This survey would be carried out in a fashion similar to that of the 1981 Regional Stream Sediment Survey. The survey would be commenced at the beginning of December and finished after the Christmas break when helicopter access is available for more remote areas.

7.5 Budgetted Expenditure

\$38,509 have been budgetted for the 1981-82 programs and allocated as follows (details in Table 2):

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Wilson River Grid	31,770.00
Laurel Creek Grid	30,900.00
Little Wilson River Infill Lines	38,139.00
Tadpole Hill Infill Lines	23,130.00
Area 2 Block (stream sediment sampling)	<u>14,570.00</u>
TOTAL:	<u>138,509.00</u>

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TABLE 2

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	WILSON RIVER GRID	LAUREL CREEK GRID	LITTLE WILSON RIVER INFILL LINES	TADPOLE HILL INFILL LINES	AREA 2 BLOCK	TOTALS
Grid cutting soil sampling magnetics	9,060.00	8,860.00	7,329.00	6,020.00	-	31,269.00
Stream sediment sampling	-	-	-	-	8,300.00	8,300.00
Assaying	3,340.00	3,170.00	2,250.00	2,540.00	1,320.00	12,620.00
Petrology	350.00	350.00	350.00	350.00	700.00	2,100.00
Helicopter	10,500.00	10,000.00	10,500.00	5,000.00	2,000.00	38,000.00
Geophysics	2,200.00	2,200.00	10,550.00	5,140.00	-	20,090.00
Drafting	1,000.00	1,000.00	1,000.00	1,000.00	750.00	4,750.00
Salaries	5,000.00	5,000.00	6,000.00	3,000.00	1,500.00	20,500.00
Surveying	320.00	320.00	160.00	80.00	-	880.00
TOTALS	31,770.00	30,900.00	38,139.00	23,130.00	14,570.00	138,509.00

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8. REFERENCES

A more extensive list is included in the 1979-80 Wilson River Area Annual Report By A. Ross.

1. "Introduction to Exploration Geochemistry" Levinson A.A. 1974 Applied Publishing Ltd., Calgary.
2. "The Management and Analysis of Regional Geochemical Data" Garrett R.G., Kane V.E. and Zeigler R.K. (1980).
In R.H. Carpenter (Editor), Geochemical Exploration for Uranium. J. Geochem. Explor. 13:115-152.
3. "Interpretation Report - Airborne E.M. (Input) Survey over the Wilson River Area, Tasmania for Renison Limited." by G. Butt 1978 (Geoterrex Pty. Ltd.).
4. "A Photogeological Study of the Meredith Granite and Surrounding Area, Western Tasmania", by P.R. Boshier 1979 (Hunting Geology and Geophysics (Aust) Pty. Ltd.).
5. "E.L. 17/7 Wilson River Area Annual Report 1979-80" A. Ross. November 1980. Renison Limited.
Unpublished Report.

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APPENDIX 1

EXPENDITURE 1980-81

EL17/77 WILSON RIVER AREA RESPONSIBILITY 069

P/E 30/6/81

ACCOUNT NUMBER	ACCOUNT NAME	PERIOD TO DATE		YEAR TO DATE	
		ACTUAL	VARIANCE	ACTUAL	VARIANCE
10690702	SALARIES		816 G	8556	2565 G
10690702	SALARY LOADING		151 G	1124	943 G
10690705	CONSUMABLES	234	115 L	1427	4292 G
10690708	VEHICLES		297 G	84	3387 G
10690710	TRAVEL & ACCOMMODATION	14	14 L	1642	1642 L
10690720	RENISON SERVICES - SURVEY			216	740 G
10690721	RENISON SERVICES - ASSAY			1926	2197 G
10690722	RENISON SERVICES - RESEARCH				145 G
10690723	RENISON SERVICES - OTHER				
10690730	OUTSIDE SERVICES - GEOLOGICAL	60	60 L	981	981 L
10690731	OUTSIDE SERVICES - GEOPHYSICAL			1294	4498 G
10690732	OUTSIDE SERVICES - GEOCHEMICAL			10161	7845 L
10690733	OUTSIDE SERVICES - TRK CUTTING			4030	1099 G
10690735	OUTSIDE SERVICES - SITE ACC DEV				
10690736	OUTSIDE SERVICES - DIAMOND DRNG			120	120 L
10690737	OUTSIDE SERVICES - OTHER			27747	671 L
10690740	LEASE PAYMENTS			1051	51 L
	ROUNDING			1-	1 G
10699999	TOTAL EL17/77 WILSON RIVER	308	1075 G	60358	8557 G

APPENDIX 2

BUDGETTED EXPENDITURE 1981-82

RENISON LIMITED

BUDGET, 1981/1982.

933038

037

SHEET # D.

ITEM

REF. P#01. P#02. P#03. P#04. P#05. P#06. P#07. P#08. P#09. P#10. P#11. P#12. TOTAL

GEOLOGY - EL17/77 WILSON RIVER

SALARIES	L690702	277	277	277	573	1719	2293	4746	4746	3554	1220	610	306	20598
SALARY LOADING	L690703	83	83	83	172	516	688	1424	1424	1068	366	183	91	6181
CONSUMABLES	C690705						1125	579	579	174	59	59		2575
VEHICLES	C690708						56	58	58	58				230
TRAVEL & ACCOMMODATION	C690710			109						116				225
RENISON SERVICES-SURVEY	C690720							649						649
-ASSAY	C690721									4193	4298			8491
-RESEARCH	C690722								695	695				1390
OUTSIDE SERVICES-GEOLOGICAL	C690730					281	2027	2317	1737	1187	1187			8736
-GEOPHYSICAL	C690731						13900	4633	2317					20850
-GEOCHEMICAL	C690732						5792	5792	2317					13901
-TRK CUTTING	C690733						6950	11583						18533
-HELICOPTER HIRE	C690737						17375	17375						34750
LEASE PAYMENTS	F690740			650						750				1400

SECTION TOTAL

360 360 1119 745 2235 4443 53500 49202 16979 7130 2039 397 138509

APPENDIX 3ROCK CHIP SAMPLING DESCRIPTIONS

E.L. 17/77 ROCK CHIP SAMPLING - W.R.R.C.

SAMPLE NO.	DESCRIPTION
1/1	Puggy Fe-oxide stained rock; soft, crumbly, clayey in places. Has some bands of heavier, more compact rock with blebs of magnetite/haematite.
1/2	Quartz-tourmaline-sulphide rock. Coarse quartz, with fine grained greenish tourmaline, + chlorite and minor spots of galena, pyrite, and chalcopyrite to 0.5cm diameter. Vuggy in places with euhedral quartz crystals.
1/3	Quartzite; white to grey, hard, silicified with dark grains of chromite.
1/4	Quartz-tourmaline vein in altered granite. Very thin vein of quartz with fine grained greenish tourmaline selvage with spots of pyrite and arsenopyrite.
1/5	Indurated "Amber Slate"; hard, flinty, purplish with minor light grey layers of more siliceous material. Minor veinlets and blebs of pyrite throughout.
1/6	Fine grained sugary light green quartzite; well bedded and crossbedded. Crotty quartzite?
1/7	Coarse grained pebbly quartzite interbedded with 1/6 Crotty Quartzite.
2/1	Tadpole Hill: Green tourmalinized granite from dump of shaft I.
2/2	Green tourmalinized granite from dump of shaft II.
2/3	Green tourmalinized granite from dump of shaft III.
2/4	Tourmaline vein in granite - 250m north of shaft I.
3/1	Fine grained, medium grey Quartzite; knobbly brown weathered surface.
3/2	Fine grained, medium grey-green, slightly siliceous shale; fairly well bedded.
3/3	Hard, cream, sugary Quartzite - Crotty.
3/4	Fine grained, hard, cream, quartzite - Crotty.
3/5	Fine to medium grained, grey to light brown quartzite; friable, fossiliferous with crinoid ossicles and brachiopods.

SAMPLE NO.	DESCRIPTION
4/1	Dark brown puggy rock with cream to light green patches of clay.
4/2	Yellowish brown limonitic Fe-oxide puggy rock.
5/1	Cavernous to knobbly haematite/magnetite with minor secondary limonite. (THIN SECTION)
5/2	Fine grained, medium to dark green granular basic intrusive. (THIN SECTION).
5/3	Bright pea-green clay with minor black patches.
5/4	Knobbly, light brown 'gossanous' rock with bunches of fine quartz crystals growing from surface and in cavities; light weight and soft.
5/5	Green tourmalinized granite with arsenopyrite and cassiterite grains.
6/1	Black-brown iron oxide stained puggy and clayey rock. Moderately light weight.
6/2	Fine grained reddish maroon rock with grains of magnetite/haematite. Heavy and friable.
6/3	Fine grained, light and dark brown rock with fine grains of magnetite/haematite. Heavy rock.
6/4	Light and dark brown limonitic rock. Moderately light weight.
6/5	Clayey puggy rock with red and light green clays. Moderately heavy.
6/6	Fine grained black-brown rock with fine grains of magnetite/haematite.
7/1	Dark brown limonitic slab of float. Moderately heavy.
8/1	Dark brown-black clayey-puggy rock with yellowish patches. Fairly light weight.
8/2	Yellow brown Fe-oxide/limonitic rock with some haematite/magnetite.
8/3	Black to dark brown, puggy, clayey rock. Fairly light weight.
8/4	Yellow brown Fe-oxide stained clayey, puggy rock.
8/5	Iron-oxide puggy rock, with some Fe-oxide stained clay; black to dark brown.

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SAMPLE NO.	DESCRIPTION	
8/6	Dark brown-black, Fe-oxide stained puggy, clayey rock. Fairly light weight.	
9/1	Very altered, very weathered coarse grained granite; with much Fe-oxide staining. Forms creek bed.	
10/1	Mt. Ramsay Alluvial workings. Coarse grained green tourmalinized granite boulder (rounded) from creek.	
10/2	Fine grained green tourmalinized granite.	
10/3	Black tourmaline selvage on fine grained greyish aplite? vein.	
12/1	Tourmaline (greenish) veins in granite, associated with greenish nodules of tourmaline near "Quartz-tourmaline Blow".	
12/2	Quartz-tourmaline Blow: Fine grained porphyritic granite (with quartz porphyroblasts), with minor patches of greenish tourmaline. Knobbly weathered surface.	

APPENDIX 4

PETROLOGY REPORT CMS 81/3/48

BY D. COWAN

REPORT CMS 81/3/48Notes:

Thirty-six specimens were received for petrological examination and are briefly described in the attached tables. Descriptions incorporate data from stereobinocular and petrological microscopic examination of representative thin-sections and offcuts. Comments are included on alteration trends and specific queries, where applicable. This excludes a few finer points of opaque mineralogy which will be treated in a supplementary report to follow shortly.

Summary

Wilson River samples reflect a greisen-type situation with subordinate skarn. Greisens include a muscovitised/silicified granite and a variety of veins with quartz-tourmaline, quartz-mica and texturally late quartz $\pm$ chlorite assemblages. Accessory sulphides are partly supergene-altered, or weathered with localised development of secondary scorodite or ?arsenolite after arsenopyrite. Cassiterite was detected in two specimens.

				Central Mineralogical Services *
Sample No.	Classification - Composition	Fabric	Accessories	Comments
W.R.R.C. 1/2	Quartz-Chlorite Rock. Vein-type quartz with irregular aggregates, films of Fe-Mg chlorite, disseminated chloritised phlogopite flakes, sparse clots of pyrite, sphalerite.	Coarse granular to sub-hedral quartz, patchy granulation areas healed with quartz,	Traces muscovite inclusions in quartz. Rare ultrafine films galena.	Primarily a quartz-mica vein, reflects late quartz-chlorite assemblage, stress related, with introduction of pyrite, sphalerite.
W.R.R.C. 1/4	Greisen/Veined Granite. Quartz and quartz-sericite after feldspar/quartz-tourmaline veins with conspicuous arsenopyrite, pyrite, minor rutile, phlogopite. Late barren quartz veinlets.	Relict granitic with variably stressed, locally granulated quartz veins, late quartz healings.	Extremely rare cassiterite. Patchy scorodite, minor traces ?bornite, covellite.	Cassiterite as single cluster 50-200 μ grains in stressed quartz-schorl-sulphide vein. Scorodite, Cu sulphide after arsenopyrite, chalcopryite ("supergene").
W.R.R.C. 5/1	Magnetite-Garnet Skarn. Coarse, partly martitised magnetite with disseminated, extensively degraded/ferruginised garnet (?andradite), minor completely ferruginised ?amphibole.	Coarse granular fabric, weakly clustered garnets to 1 cm.	-----	High-grade skarn, devoid of relict features. Weathered garnet yields chalcopryite, boxwork-like cellular limonite, locally.
W.R.R.C. 5/2	Diopside Rock. Virtually massive diopside-hedenbergite. Minor, thinly disseminated, cloudy sphene.	Massive, granular, weakly interlocking pyroxene. Medium, but variable sizing.	Rare, semi-continuous calcite-tremolite (-sphene) veinlets.	Devoid of metasomatic replacement features, thus consistent with skarn-type vein or segregation. Virtually monomineralic.
W.R.R.C. 5/5 (T.S. 37012)	Quartz-Tourmaline Rock. Quartz with subordinate blue-green schorl, minor pale phlogopite. Disseminated poikilitic arsenopyrite partly replaced by secondary ?arsenolite.	Medium to coarse, granular to subhedral quartz, intergranular schorl aggregates.	Rare apatite. Extremely rare cassiterite.	Typical quartz-schorl vein. Cassiterite as isolated, skeletal to euhedral; semi-opaque 50-200 μ grains intergranular and partly included in quartz.

APPENDIX 5WILSON RIVER ROCK CHIP SAMPLING ASSAY RESULTS

WILSON RIVER ROCK CHIP SAMPLING - ASSAY RESULTS

SAMPLE	% SN									
	TOTAL	P.P.M. ACID SOL.	P.P.M. Cu	% AS	% S	P.P.M. Pb	P.P.M. Zn	% FE	g/t AG	P.P.M. WO ₃
1/1	0.12	1100	400	<0.01	<0.1	<100	400	67.2	2	<10
1/2	70 ppm	100	30	<10ppm		1250	3500			
1/4	0.026	100	1.65%	2.39		145	35			
2/1	0.487	100	25	0.026		55	25			
2/2	0.036	100	85	0.087		70	60			
2/3	0.025	100	90	0.092		70	45			
2/4	0.111	100	25	0.015		20	20			
4/1	40ppm	100	85	30ppm		30	475	3.8		20
4/2	80 ppm	<100	20	90ppm		145	2200	48.8		<20
5/1	0.062	400	25	0.014		25	300	66.6		20
5/4	0.4910	5500	80	0.017		100	390	38.2		80
5/5	0.346	<100	10	1.80		10	10			
6/1	0.141	1500	95	70ppm		45	310	24.6		100
6/2	0.038	200	460	0.026		10	360	60.0		20
6/3	0.040	200	140	0.049		10	150	56.4		<20
6/4	0.048	200	490	0.089		25	20	50.8		20
6/5	0.029	100	75	70ppm		15	120	54.1		1740
6/6	0.048	200	35	30ppm		10	65	58.0		820
7/1	0.028	100	310	0.032		10	65	59.1		<20
8/1	0.192	1700	210	0.054		1400	1100	21.0		40
8/2	0.073	800	2300	0.015		410	390	58.8		40
8/3	0.051	460	260	0.059		75	570	16.3		80
8/4	10 ppm	<100	110	0.684		630	910	37.2		40
8/5	0.010	200	90	0.115		300	620	45.3		20
8/6	<10 ppm	<100	160	0.308		770	3050	20.5		460
9/1	10 ppm	<100	15	<10ppm		60	70	2.0		20
10/1	0.017	<100	10	<10ppm		10	30			
10/2	0.024	100	45	20ppm		25	60			
10/3	<10 ppm	<100	45	40ppm		15	20			
12/2	70 ppm	<100	15	20ppm		<5	25			

047

APPENDIX 6

WILSON RIVER STREAM SEDIMENT SAMPLING RESULTS:

TOTAL TIN AND ACID SOLUBLE TIN

APPENDIX 6WILSON RIVER STREAM SEDIMENT SAMPLING RESULTS:TOTAL TIN AND ACID SOLUBLE TIN.

SAMPLE NO. (WRSS)	TOTAL SN PPM	ACID SOLUBLE SN PPM	SAMPLE NO. (WRSS)	TOTAL SN PPM	ACID SOLUBLE SN PPM
5	240	<50	58	380	<50
9	250	"	76	60	"
10	180	"	78	60	"
21	240	"	79	80	"
22	490	"	80	70	50
23	1730	"	81	80	50
24	1660	50	134	60	<50
25	180	<50	138	60	"
26	200	"	183	70	"
27	330	"	184	250	"
28	110	"	185	30	"
31	320	"	189	40	"
35	220	"	192	80	"
36	350	"	193	90	"
37	160	"	194	70	"
38	120	"	195	60	"
39	400	"	196	180	"
41	210	"	198	150	"
42	110	"	199	150	"
43	140	"	211	270	"
45	180	"			

933050

-80 mesh Assay Results

81-1594

Sample No	XRF SN	XRF W	XRF AS	AA CU	AA PB	AA ZN	AA CR	AA NI
01	30	-20	10	-5	10	20	10	10
02	-10	-20	-10	10	10	40	40	20
03	-10	-20	-10	-5	10	35	20	10
04	-10	-20	-10	-5	10	15	10	10
05	240	60	30	5	10	15	10	10
06	-10	-20	-10	-5	10	10	10	-10
07	60	40	20	-5	10	10	-10	-10
08	-10	-20	10	-5	10	25	20	10
09	250	20	20	-5	10	10	10	-10
10	180	40	20	15	20	130	70	40
11	10	-20	-10	5	10	30	30	10
12	-10	-20	-10	10	12	60	50	30
13	80	20	10	-5	10	20	20	10
14	40	-20	-10	-5	-10	5	10	-10
15	10	-20	-10	10	20	55	-10	20
16	-10	-20	-10	-5	-10	20	10	10
17	-10	-20	-10	-5	-10	15	10	10
18	60	-20	-10	~~10~~ 10	10	55	40	20
19	30	-20	-10	5	10	35	20	10
20	70	~~20~~	-10	-5	-10	-3	10	10
21	240	60	20	-35	10	-5	-10	-10
22	490	20	10	5	10	5	-10	-10
23	1730	20	10	-5	10	15	-10	-10
24	1660	20	20	10	10	40	40	20
25	180	40	10	-5	10	10	20	10
26	200	60	10	10	10	30	40	20
27	330	80	20	-5	10	20	150	10
28	110	20	-10	-5	10	40	370	110
29	-10	-20	-10	10	20	50	40	30
30	-10	-20	-10	-5	10	20	20	20
31	320	~~20~~	~~10~~	-5	-10	~~5~~	-10	10
32	10	-20	-10	5	10	35	20	10
33	30	-20	-10	-5	10	35	20	

933051

81-1594

Sample N°	SN	W	AS	CU	PB	ZN	CR	NI
34	30	-20	-10	10	10	35	50	20
35	220	20	10	5	30	75	650	130
36	350	40	20	-5	20	60	620	50
37	160	20	10	-5	20	50	550	120
38	120	20	10	-5	10	40	610	90
39	400	40	30	10	20	30	20	10
40	30	-20	-10	10	30	65	50	20
41	210	80	40	10	20	40	10	-10
42	110	20	20	-5	10	10	10	-10
43	140	-20	-10	-5	10	10	10	-10
44	-10	-20	-10	-5	10	20	10	10
45	180	20	10	-5	10	10	-10	10
46	90	40	-10	-5	-10	5	-10	-10
47	30	20	10	20	20	105	50	20
48	20	20	10	25	20	170	90	50
49	-10	-20	-10	-5	-10	20	10	10
50	10	-20	-10	-5	-10	25	10	10
51	-70	40	-10	10	10	65	40	20
52	10	-20	-10	-5	10	15	10	-10
53	90	20	10	-5	10	5	-10	-10
54	-10	-20	-10	-5	10	10	10	10
55	-10	-20	-10	-5	-10	5	-10	-10
56	10	-20	10	5	10	40	20	10
57	20	20	-10	5	20	40	30	10
58	380	40	20	-5	10	5	-10	-10
59	-10	-20	-10	-5	-10	5	10	-10
60	-10	-20	-10	-5	10	5	10	10
61	-10	-20	-10	-5	20	35	10	10
62	30	20	20	-5	10	30	10	10
63	-10	-20	10-10	5	20	35	10	10
64	-10	-20	-10	-5	-10	5	10	10
65	-10	-20	-10	-5	10	10	10	-10
66	30	-20	-10	5	10	35	10	10

933052

81-1594

Sample No	SN	W	AS	CU	PB	ZN	CR	NI
67	-10	-20	~~10~~ -10	5	10	30	20	10
68	-10	-20	~~112~~ -10	-5	10	25	20	10
69	30	20	-10	10	20	50	10	10
70	-10	-20	-10	-5	10	35	10	~~30~~ 10
71	20	40	20	5	10	30	10	-10
72	~~40~~	-20	-10	5	20	40	10	10
73	90	60	20	-5	30	50	-10	10
74	74	-20	-10	-5	-10	~~15~~ 15	10	10
75	-10	60	20	-5	10	~~15~~ 15	10	10
76	60	40	20	-5	-10	~~15~~ 5	-5	-10
77	30	80	30	-5	10	~~15~~ 10	-5	10
78	60	20	10	-5	10	~~15~~ 10	-5	-10
79	80	60	30	-5	10	~~15~~ 20	-5	10
80	70	40	10	10	20	~~15~~ 40	-5	10
81	80	80	20	10	30	55	10	10
82	30	80	50	-5	10	15	-5	-10
83	40	80	30	-5	-10	10	-5	-10
84	30	40	20	-5	-10	15	-5	10
85	50	40	20	10	10	35	-5	10
86	40	20	30	5	10	25	5	10
87	10	-20	10	15	30	70	30	20
88	-10	-20	-10	-5	30	10	5	10
89	-10	20	20	-5	-10	15	5	10
90	-10	-20	-10	-5	-10	5	5	10
91	~~9~~ -10	20	20	-5	-10	-5	-5	10
92	60	20	20	-5	-10	10	-5	10
93	-10	20	10	10	10	45	20	20
94	-10	-20	-10	-5	-10	10	10	10
95	-10	20	10	-5	-10	10	-5	-10
96	30	40	20	-5	20	15	5	-10
97	-10	-20	10	-5	-10	15	10	-10
98	-10	-20	-10	-5	-10	15	5	-10
99	-10	-20	-10	-5	-10	5	5	10

933053

81-1574

Sample No	SN	W	AS	CU	PB	ZN	CR	Ni
100	30	-20	10	5	20	15	10	10
101	-10	-20	-20	-5	-10	15	10	10
102	10	-20	20	5	20	15	5	-10
103	-10	-20	-10	-5	10	25	10	10
104	-10	-20	-10	5	10	30	10	10
105	-10	-20	-10	-5	-10	-5	-5	-10
106	-10	-20	-10	-5	20	15	5	10
107	-10	20	-10	-5	10	-5	-5	10
108	-10	-20	10	-5	-10	10	5	10
109	-10	-20	-10	5	-10	10	5	-10
110	10	-20	-10	5	10	20	5	-10
111	-10	-20	-10	-5	20	30	15	10
112	-10	-20	-10	-5	-10	20	-5	-10
113	-10	-20	-10	-5	-10	10	10	-10
114	-10	-20	-10	-5	-10	-5	-5	-10
115	-10	-20	-10	-5	-10	25	5	-10
116	-10	20	20	-5	10	20	10	-10
117	10	-20	-10	-5	-10	5	-5	-10
118	10	-20	10	-5	10	60	5	-10
119	-10	-20	-10	-5	-	15	-5	-10
120	10	-20	10	-5	-10	5	5	-10
121	-10	-20	10	-5	-10	20	10	-10
122	-10	-20	10	-5	20	65	25	-10
123	10	-20	-10	-5	-10	20	10	-10
124	-10	-20	-10	-5	-10	25	15	-10
125	-10	-20	-10	-5	-10	25	10	-10
126	-10	-20	-10	-5	-10	-5	-5	-10
127	-10	-20	-10	-5	-10	5	-5	-10
128	-10	-20	-10	-5	-10	15	10	-10
129	20	-20	-10	5	30	50	20	-10
130	-10	20	10	-5	-10	15	-5	-10
131	-10	-20	-10	-5	40	30	20	-10
132	-10	-20	-10	-5	20	15	15	-10

933054

81-1594

	SN	N	AS	CU	PB	ZN	CR	NI
133	20	20	20	25	100	115	30	20
134	60	60	40	-5	-10	-5	-5	-10
135	10	-20	-10	-5	-10	-5	-5	-10
136	30	-20	10	-5	—	-5	-5	-10
137	10	-20	-10	-5	-10	-5	-5	-10
138	60	-20	10	-5	-10	-5	-5	-10
139	20	-20	10	-5	-10	-5	-5	-10
140	30	100	40	-5	10	5	-5	-10
141	10	20	10	-5	-10	10	-5	-10
142	10	60	30	-5	10	-5	-5	-10
143	-10	80	30	-5	10	25	-5	-10
144	10	20	10	-5	-10	15	-5	-10
145	-10	-20	-10	-5	-10	-5	-5	-10
146	40	40	10	-5	-10	5	-5	-10
147	-10	-20	10	-5	20	20	-5	-10
148	10	-20	-10	-5	-10	20	5	-10
149	-10	-20	-10	-5	-10	15	5	-10
150	—	—	—	—	—	—	—	—
151	20	-20	-40	-5	10	20	20	-10
152	-10	-20	-10	-5	-10	5	10	-10
153	-10	20	-10	-5	20	25	20	-10
154	10	20	-10	-5	-10	-5	-10	-10
155	10	-20	-10	-5	-10	20	10	-10
156	-10	-20	-10	-5	10	-5	10	-10
157	-10	-20	-10	-5	10	10	-10	10
158	10	-20	-10	-5	-10	-5	-10	-10
159	30	-20	-10	-5	-10	10	-10	-10
160	-10	-20	-10	-5	-10	10	10	10
161	10	-20	-10	-5	-10	-10	-10	10
162	-10	-20	-10	-5	-10	5	-10	-10
163B	-10	-20	-10	-5	-10	-5	-10	-10
164B	-10	40	20	-5	-10	-5	-10	-10
165	10	-20	-10	-5	-10	5	-10	-10

933055

81-1594

	SN	W	As	CU	PB	ZN	CR	NI
166	-10	-20	-10	-5	-10	-5	-10	10
167	-10	-20	-10	-5	-10	-5	-10	10
168	*30	-20	10	-5	-10	5	-10	-10
169	-10	-20	10	-5	-10	-5	-10	-10
170	-10	-20	-10	-5	-10	-5	-10	10
171	10	-20	-10	-5	-10	-5	-10	-10
172	-10	-20	-10	-5	-10	-5	-10	-10
173	20	-20	10	-5	-10	25	-10	-10
174	10	-20	-10	-5	-10	5	-10	10
175	-10	-20	-10	-5	-10	5	-10	-10
176	-10	20	-10	-5	-10	-5	-10	-10
177	10	-20	-10	-5	-10	-5	-10	-10
178	30	-20	10	5	-10	30	10	10
179	-10	-20	-10	-5	-10	45	10	-10
180	30	40	-10	5	50	75	10	10
181	-10	-20	-10	-5	10	15	-10	-10
182	10	20	10	-5	-10	25	-10	-10
183	70	40	30	20	30	100	20	20
184	250	80	90	-5	-70	270	-10	10
185	30	60	50	45	20 ~~20~~	20	40	40
check: 186	10	80	~~40~~	-5	~~20~~	-	15	-10
187	-10	40	20	-5	10	15	-5	10
188	10	20	-10	-5	-10	-5	-5	-10
189	40	40	40	25	40	45	30	20
190	20	60	30	-5	10	35	-10	10
191	20	40	30	15	30	110	25	20
192	80	60	30	-5	-10	40	-5	-10
193	90	60	40	15	20	45	10	10
194	70	40	20	-5	10	35	5	10
195	60	60	20	-5	10	20	5	-10
196	180	40	20	-5	-10	-5	-5	-10
197	-10	-20	-10	-5	-10	-5	-5	-10
198	150	40	20	-5	-10	20	5	-10

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	SN	W	AS	Cu	PB	ZN	CL	Ni
199	150	60	30	5	-10	10	-5	-10
200	-10	~~-20~~	10	-5	-10	~~25~~ 25	-5	10
201	50	80	20	-5	-10	-5	-5	-10
202	40	40	10	-5	-10	-5	-5	-10
203	-10	80	30	-5	-10	-5	-5	-10
204	40	40	20	-5	-10	-5	-5	-10
205	-10	60	30	-5	-10	10	~~45~~ 5	-10
206	-10	~~-20~~ ~~100~~	10	-5	-10	-5	-5	-10
207	-10	~~100~~	50	-5	-10	10	45	-10
208	20	60	30	15	-10	25	15	20
209	10	20	20	15	-10	35	70	30
210	-10	60	40	20	-10	25	15	20
211	270	60	20	-5	-10	-5	-5	-10
212	30	20	20	-5	-10	-5	-5	-10
213	-10	20	10	10	-10	25	20	30
214	10	20	10	-5	-10	5	10	~~10~~
215	80	40	20	-5	-10	5	-10	-10
216	90	40	20	-5	-10	-5	-10	10
217	60	40	20	-5	-10	10	10	10
218	140	80	20	-5	-10	5	-10	10
219	110	40	30	-5	-10	15	20	-10
220	50	40	10	-5	-10	-5	-10	-10
221	30	40	10	-5	-10	5	-10	-10
222	450	60	50	-5	-10	-5	5	-10
223	~~-10~~	-20	-10	-5	-10	-5	-5	-10
224	-10	-20	-10	-5	-10	-5	-5	-10
225	225	-20	~~10~~	-5	10	-5	-5	-10
226	120	40	~~30~~	10	10	25	40	-10
227	70	20	10	-5	-10	-5	5	-10
228	10	40	10	-5	-10	5	5	10
229	30	-20	-10	-5	-10	5	5	-10
230	40	40	20	-5	-10	15	10	-10
231	40	-20	-10	-5	-10	5	5	-10

933057

81-1594

	SN	N	AS	CU	PB	ZN	CR	NI
232	-10	-20	-10	-5	-10	-5	5	-10
233	20	20	10	-5	-10	-5	5	-10
234	100	20	10	-5	-10	-5	5	-10
235	-10	-20	-10	-5	-10	-5	5	-10
236	90	20	10	-5	-10	10	10	10
237	-10	20	10	30	30	230	100	80
238	10	20	-10	5	-10	-5	5	-10
239	-10	-20	-10	-5	-10	-5	5	-10
240	-10	-20	-10	-5	-10	-5	-5	10
241	-10	-20	-10	-5	-10	-5	-5	-10
242	10	-20	-10	10	30	130	60	50
243	-10	-20	10	5	20	90	50	50
244	10	-20	-10	15	40	200	85	70
245	-10	-20	-10	10	30	120	50	30
246	-10	-20	-10	10	20	130	60	40
247	-10	-20	-10	15	30	185	75	60
248	10	20	-10	10	30	115	50	40
249	10	-20	-10	15	40	205	86	70
250	-10	-20	-10	20	40	190	90	70
251	-10	20	-10	15	40	215	95	60
252	-10	-20	10	10	20	85	45	30
253	-10	-20	-10	15	-10	-5	5	10
254	10	-20	-10	-5	10	10	15	-10
255	-10	20	10	10	30	115	70	50
256	-10	-20	-10	-5	10	20	15	-10
257	—	—	—	—	—	—	—	—
258	-10	20	10	15	40	155	75	80
259	10	20	-10	15	40	165	85	60
260	-10	-20	-10	10	30	75	60	30
261	-10	-20	-10	10	20	70	50	20
262	-10	-20	-10	5	10	40	40	20
263	10	-20	-10	-5	10	10	-10	10
264	-10	-20	-10	5	10	15	20	10

933058

81-1594

	SN	N	AS	CU	PB	ZN	CR	NI
265	-10	-20	-10	5	10	45	30	20
266	-10	-20	-10	-5	10	20	20	10
267	-10	-20	-10	-5	10	25	20	10
268	-10	-20	-10	-5	10	45	30	10
269	-10	-20	-10	-5	-10	-5	-10	-10
270	-10	-20	-10	-5	-10	-5	10	-10
271	-10	-20	-10	5	20	30	30	10
272	-10	-20	-10	-5	10	20	30	10
273	-10	-20	10	10	50	180	90	50
274	-10	-20	-10	-5	10	35	30	10
275	-10	-20	10	15	40	130	80	60
276	10	-20	-10	5	10	35	30	20
277	-10	-20	-10	10	40	65	70	40
278	20	-20	-10	10	-10	125	70	30
279	-10	-20	-10	15	40	150	100	50
280	10	-20	-10	5	10	40	20	10
281	-10	-20	-10	-5	10	40	20	10
282	-10	-20	-10	5	20	55	30	20
283	-10	-20	-10	-5	-10	-5	~~30~~ -10	-10
284	-10	-20	-10	5	20	45	30	-10
285	-10	-20	-10	-5	-10	-5	-10	-10
286	-10	-20	-10	-5	-10	-5	-10	-10
287	-10	20	10	15	40	115	100	~~40~~
288	-10	-20	-10	-5	10	5	-10	-10
289	-10	-20	10	-5	-10	-5	-10	-10
290	-10	-20	-10	-5	-10	-5	-10	-10
291	-10	-20	-10	-5	-10	-5	-10	-10
292	-10	-20	-10	-5	-10	-5	-10	-10
293	-10	-20	-10	-5	-10	-5	-10	-10
294	-10	-20	-10	-5	-10	-5	-10	-10
295	10	-20	-10	-5	-10	-5	-10	-10
296	10	-20	-10	-5	-10	-5	-10	-10
297	-10	-20	-10	-5	-10	5	-10	-10

933059

81-1594

	SN	W	AS	Cu	PB	ZN	CR	NI
298	-10	-20	-10	-5	-10	-5	-10	-10
299	-10	-20	-10	-5	-10	-5	-10	-10
300	-10	-20	-10	-5	-10	10	-5	-10
301	-10	-20	-10	-5	-10	5	5	-10
302	-10	-20	10	-5	-10	-5	-5	10
303	-10	-20	-10	-5	-10	10	5	-10
304	-10	-20	-10	-5	-10	-5	-5	20
305	-10	-20	10	-5	-10	-5	-5	20
306	-10	-20	-10	-5	-10	-5	5	-10
307	-10	-20	10	-5	-10	5	5	-10
308	-10	-20	-10	-5	-10	5	-5	-10
309	-10	-20	-10	-5	-10	-5	-5	-10
310	-10	-20	-10	-5	-10	5	-5	-10
311	-10	-20	-10	-5	-10	-5	5	-10
312	-10	-20	-10	-5	-10	5	5	20
313	-10	-20	10	-5	-10	-5	5	-10
314	-10	-20	-10	-5	-10	25	5	-10
315	-10	-20	10	-5	-10	-5	5	-10
316	-10	-20	-10	-5	-10	-5	5	-10
317	-10	-20	-10	-5	-10	-5	5	-10
318	-10	-20	-10	-5	-10	-5	-5	-10
319	-10	-20	-10	-5	-10	-5	5	-10
320	-10	-20	-10	-5	-10	-5	5	-10
321	-10	-20	-10	-5	-10	15	-5	-10
322	-10	-20	-10	-5	-10	5	-5	10
323	-10	-20	-10	-5	10	70	5	-10
324	-10	20	30	-5	10	40	235	630
325	-10	20	20	-5	10	45	115	160
326	-10	-20	-10	-5	-10	15	10	-10
327	-10	-20	-10	-5	10	25	15	20
328	-10	-20	-10	-5	-10	10	10	-10
329	-10	20	20	-5	-10	50	150	80
330	-10	20	30	-5	120	145	365	240

933060

81-1594

Sample No	SN	W	As	CU	PB	ZN	CR	Ni
331	-10	20	40	-5	-10	~~35~~ ¹⁵⁵	505	300
332	-10	-20	-10	-5	-10	5	10	10
333	-10	-20	-10	-5	-10	10	10	-10
334	10	-20	-10	-5	-10	5	10	-10
335	-10	-20	-10	-5	-10	-5	-5	20
336	-10	-20	-10	-5	-10	-5	-5	-10
337	20	-20	-10	-5	-10	-5	5	10
338	-10	-20	-10	-5	-10	-5	40	40

Detection: 10 20 10 5 10 -4 -4 10

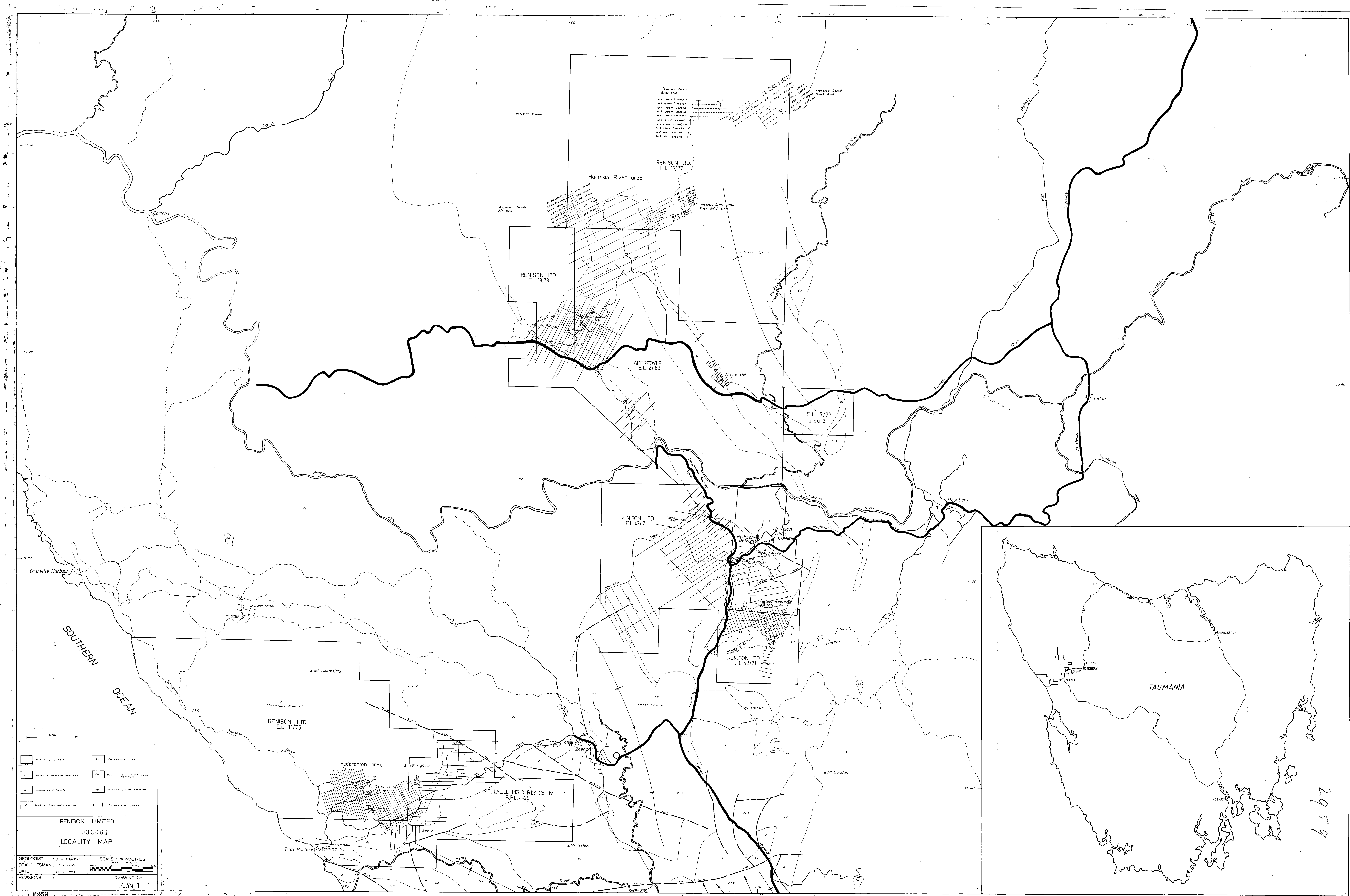
-1 = unknown.

Treatment: → 80 mesh

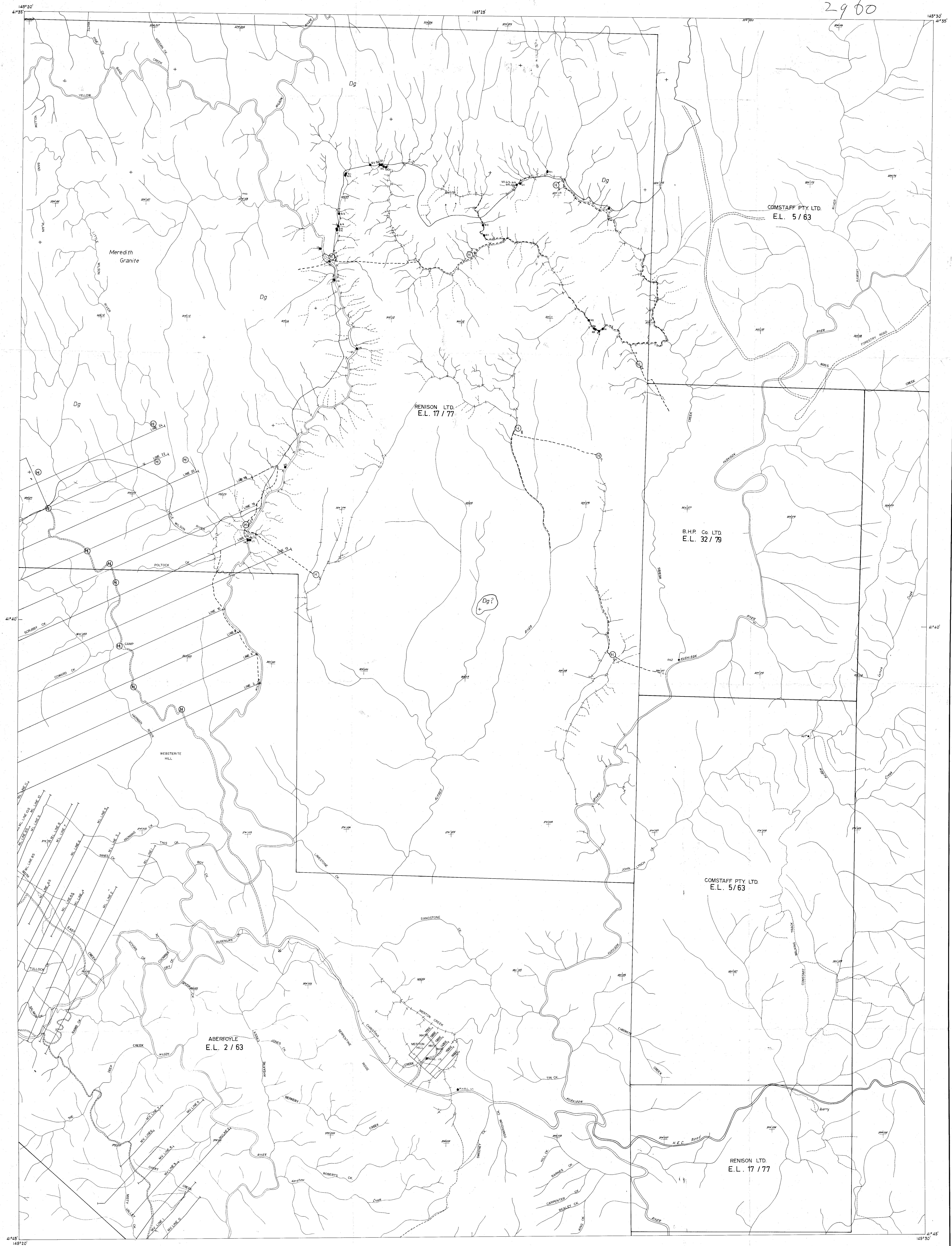
Analysis: XR - SN W As

AA - CU PB ZN CR Ni

Lab - Renison Lab (29)



2900



- ⊕ Helipad
- Cut and flagged walking track
- Comstaff walking track
- Wheel drive track
- Stream sediment locations
- Rock chip sample locations

SHEET 1	SHEET 2
SHEET 3	SHEET 4



933062

RENISON LIMITED

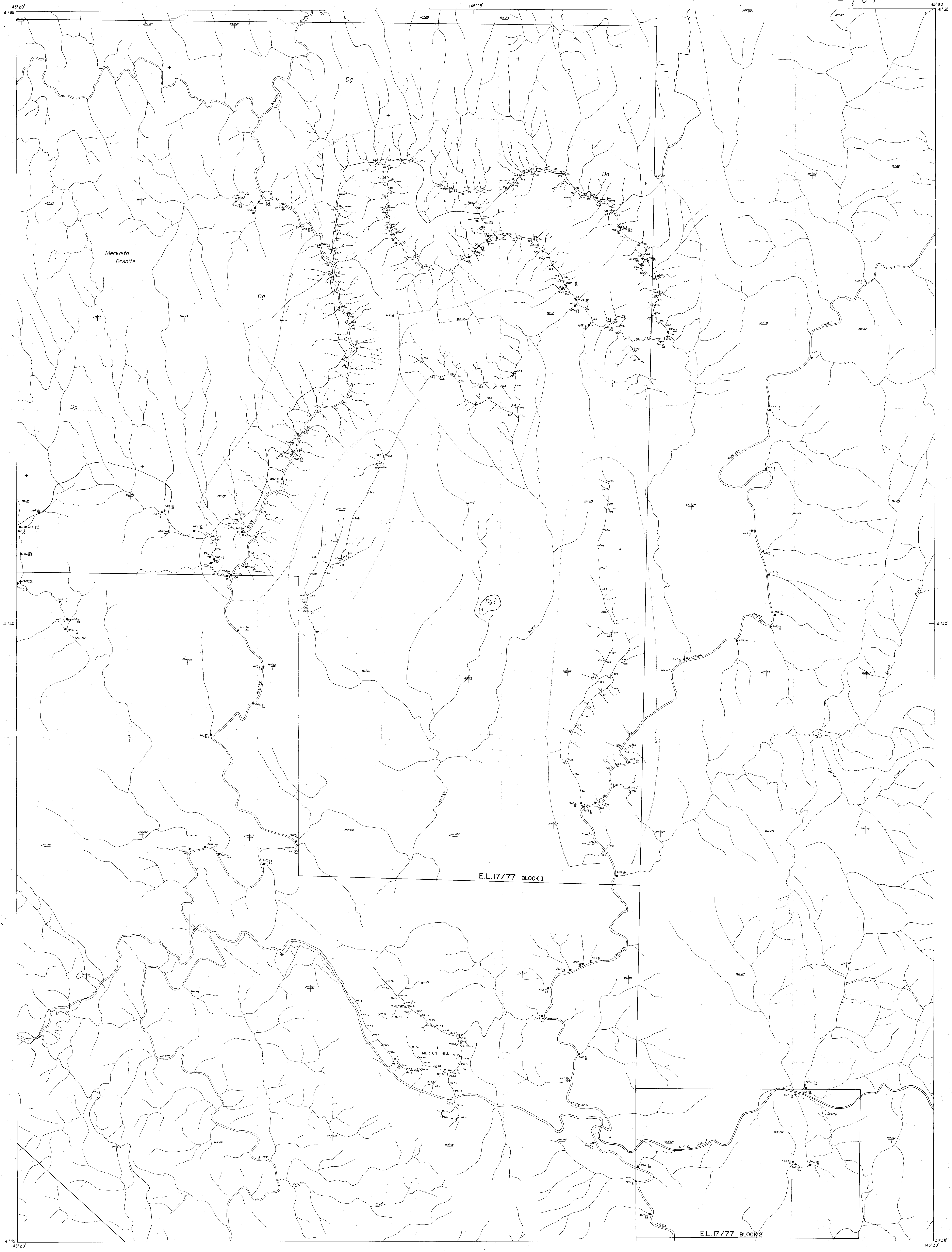
MEREDITH GRANITE AREA

ACCESS PLAN

GEOLOGIST	: L. Martin	SCALE	1:15,000 METRES (Approximate)
DRAUGHTSMAN	: E. Vickers		
DATE	: 15 June 1981		
REVISIONS			

DRAWING No. **PLAN 2**

2961



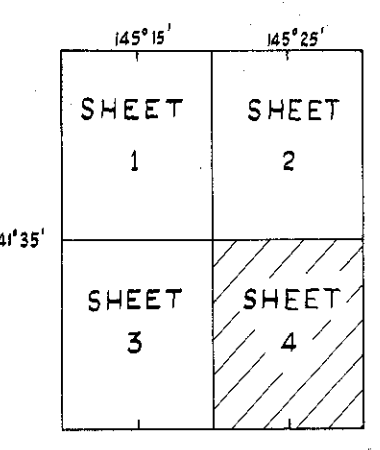
E.L. 17/77 BLOCK 1

E.L. 17/77 BLOCK 2

933063

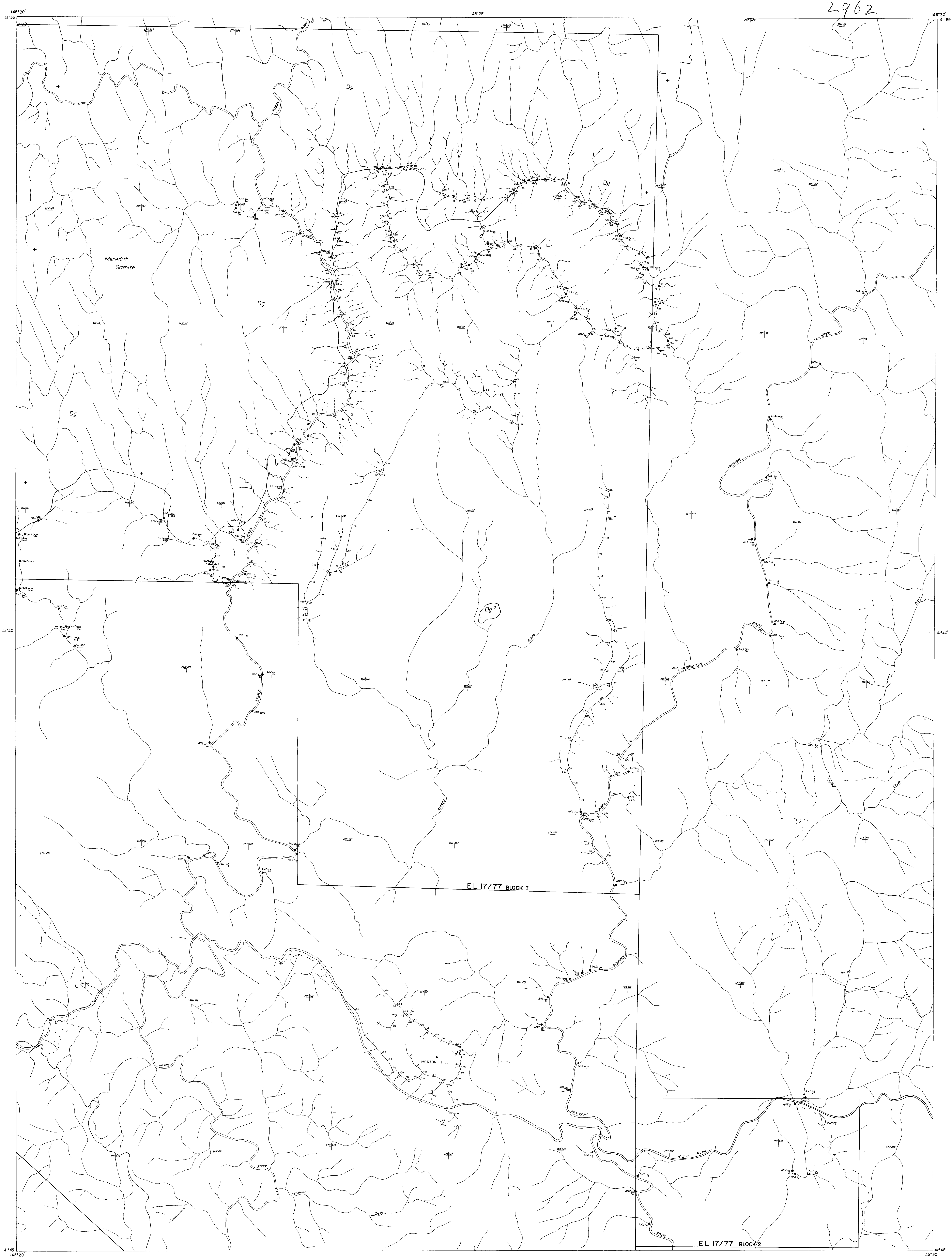
LEGEND:

- Wilson River - Stream Sediment Sampling - Reinson Ltd. (1981)
- Merton Hill Orientation Survey - Reinson Ltd. (1980)
- ANZ Exploration Pty. Ltd. - Stream Sediment Sampling (1976)
- x - Panned Sample
- y - Stream Sediment Sample



REINSON LIMITED	
MEREDITH GRANITE AREA	
STREAM SEDIMENT SAMPLING	
GEOLOGIST : L. MARTIN	SCALE 1:15,000 METRES (Approximate)
DRAUGHTSMAN : E. VICKERS	200 0 200 400 600
DATE : 15th June 1981	
REVISIONS :	DRAWING No. 3A

2962



LEGEND

- 10 ppm Background
- 160 ppm Sn Slightly anomalous
- 1020 ppm Sn Highly anomalous
- Wilson River Stream Sediment Sampling Renison Ltd (1981)
- Merton Hill Orientation Survey Renison Ltd (1980)
- ANZ Exploration Pty Ltd Stream Sediment Sampling (1976)
- x Panned Sample
- y Stream Sediment Sample

SHEET 1	SHEET 2
SHEET 3	SHEET 4



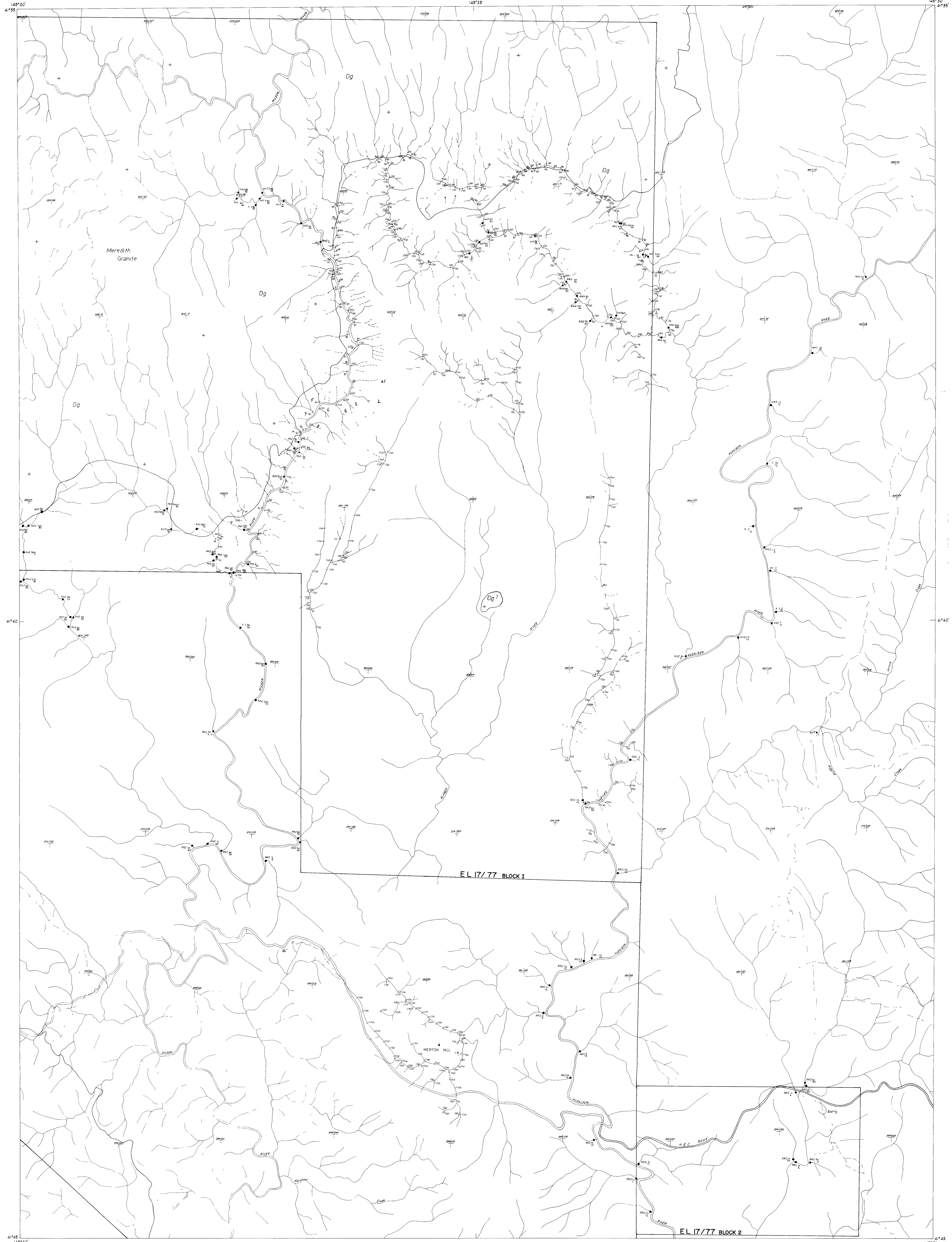
REVISIONS

REVISIONS	
1	Initial
2	Revised
3	Final

933061

31-15944

2962



LEGEND

- 20 ppm Background
- 3 60 ppm WO³ Moderately anomalous
- 80 ppm WO³ Highly anomalous
- Wilson River Stream Sediment Sampling (1981)
- Merton Hill Orientation Survey (1980)
- ANZ Exploration Pty Ltd Stream Sediment Sampling (1976)
- ANZ
 - x Panned Sample
 - y Stream Sediment Sample

145° 30'	41° 35'
SHEET 1	SHEET 2
41° 35'	41° 35'
SHEET 3	SHEET 4
41° 35'	41° 35'



RENISON LIMITED

MEREDITH GRANITE AREA

STREAM SEDIMENT SAMPLING - ppm WO³

GEOLOGIST L. MARTIN

DRAUGHTSMAN E. VICKERS

DATE 15th June 1981

REVISIONS

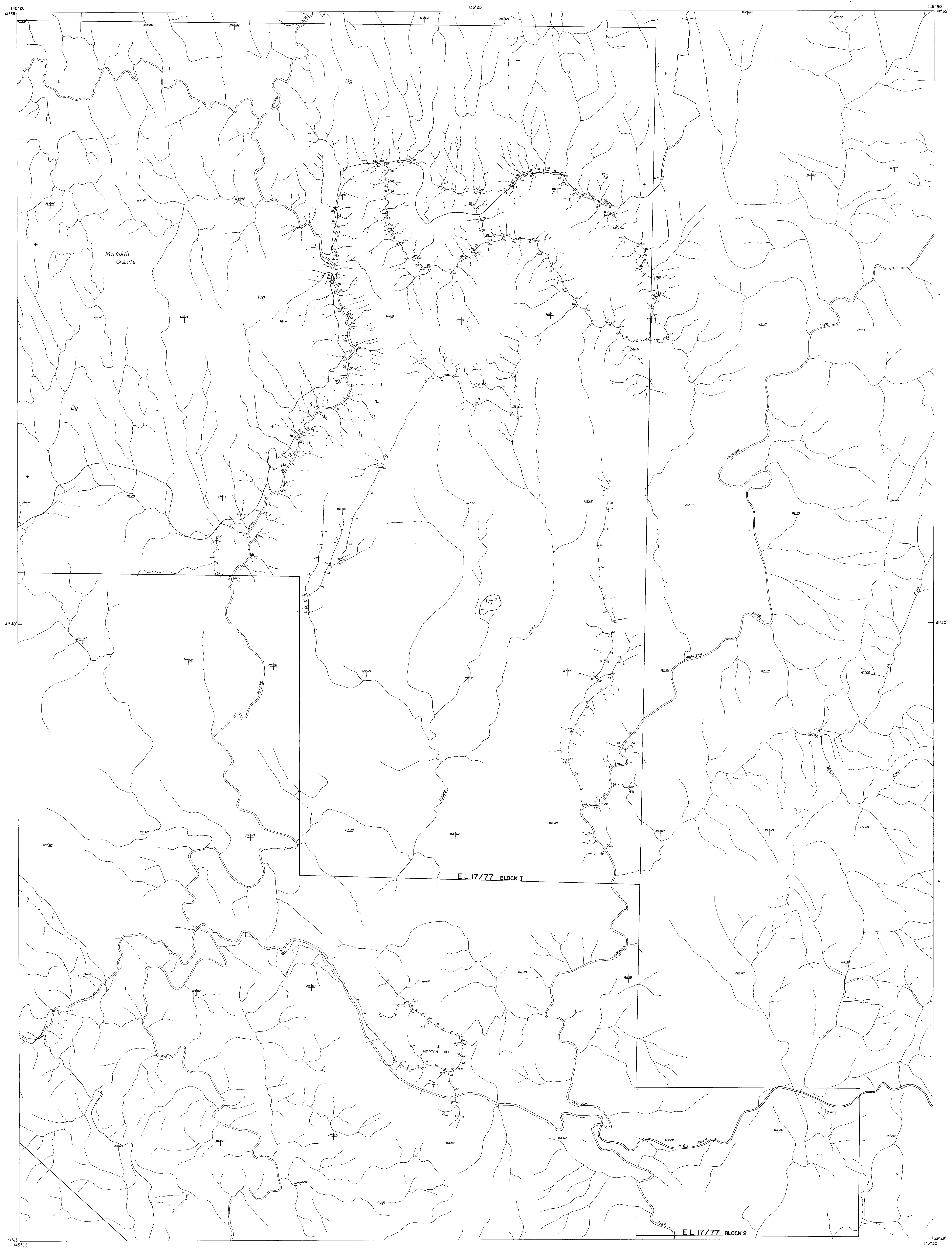
SCALE 1:15000 METRES (Approximate)

0 200 400 600

DRAWING No. 3C

WR 208

2964



LEGEND

- 10 ppm Background
- > 30 ppm As Moderately anomalous
- > 50 ppm As Highly anomalous
- Wilson River Stream Sediment Sampling Renison Ltd (1981)
- Merton Hill Orientation Survey Renison Ltd (1980)
- A.N.Z. Exploration Pty Ltd Stream Sediment Sampling (1979)
- x Panned Sample
- y Stream Sediment Sample

WS 15	WS 16
SHEET 1	SHEET 2
SHEET 3	SHEET 4



RENISON LIMITED

MEREDITH GRANITE AREA

STREAM SEDIMENT SAMPLING - ppm As

GEOLOGIST L. MARTIN

DRAUGHTSMAN E. VICKERS

DATE 15th June 1981

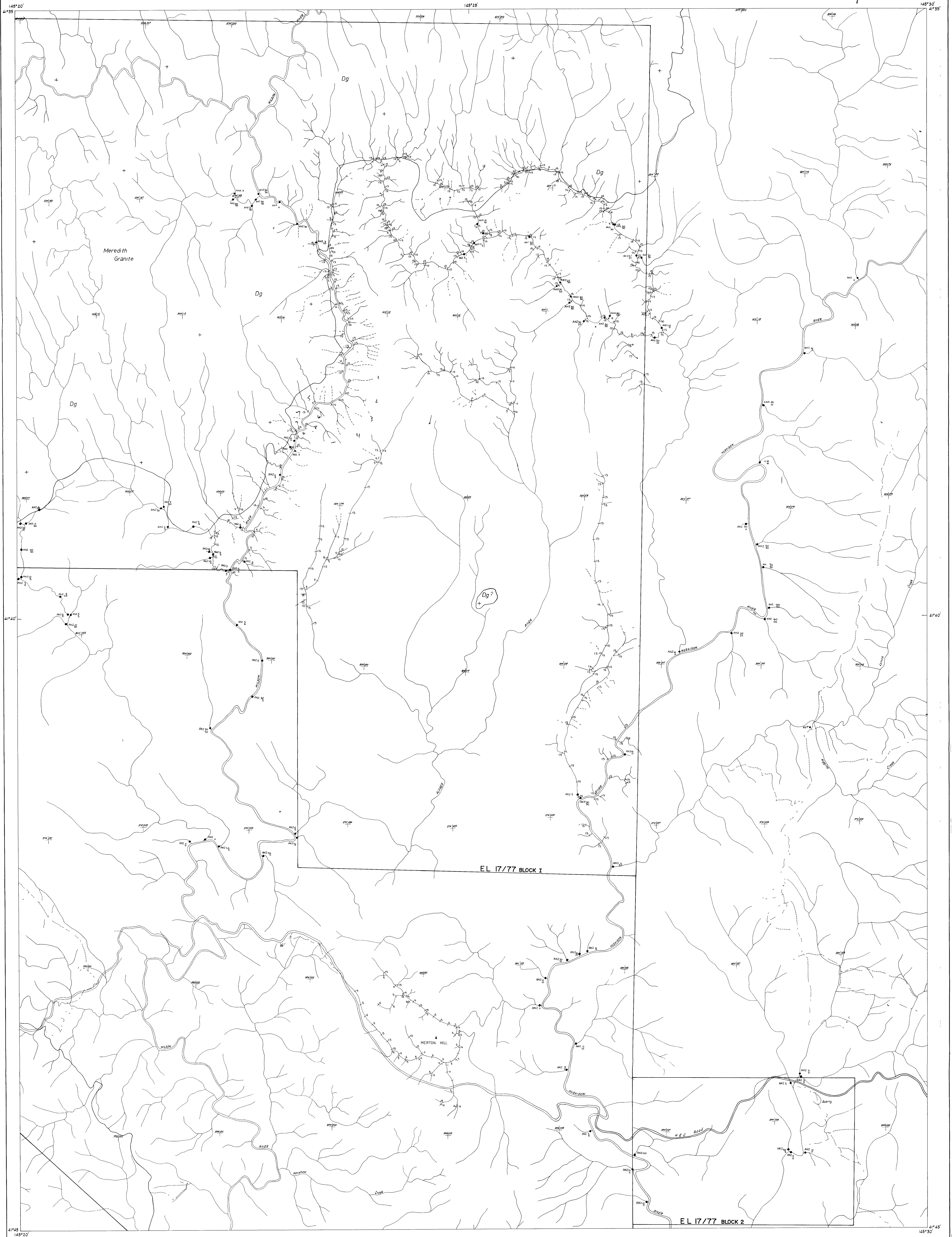
REVISIONS

SCALE 1:15000 METRES (Approximate)

DRAWING No 3D WR 207 (1)

933066

2965



LEGEND

- 5 ppm Background
- > 10 ppm Cu Moderately anomalous
- > 30 ppm Cu Highly anomalous
- Wilson River Stream Sediment Sampling (1981)
- Merton Hill Orientation Survey (1980)
- ANZ Exploration Pty Ltd Stream Sediment Sampling (1976)
- x Panned Sample
- y Stream Sediment Sample

SHEET 1	SHEET 2
SHEET 3	SHEET 4



RENISON LIMITED

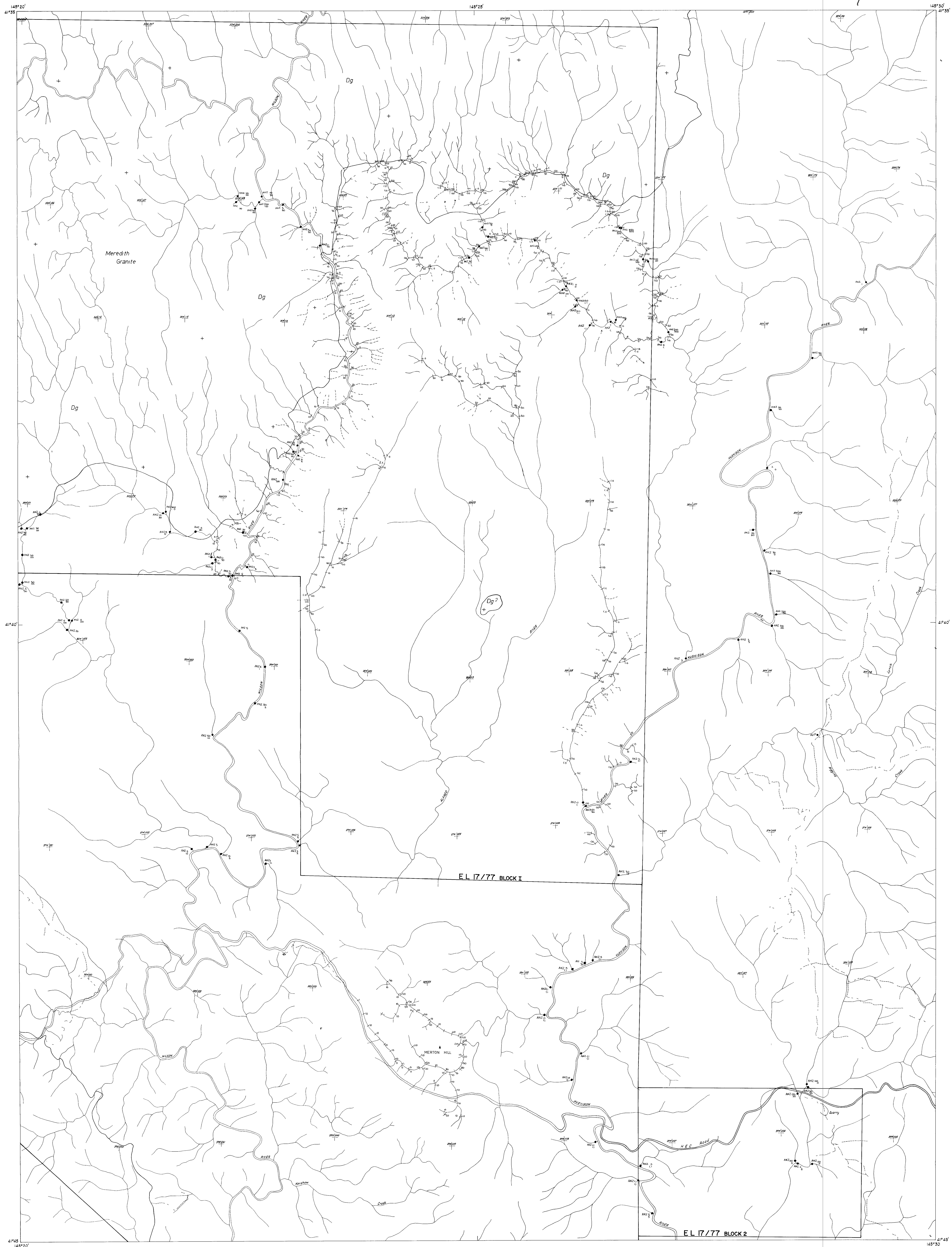
MEREDITH GRANITE AREA

STREAM SEDIMENT SAMPLING - p p m Cu

GEOLOGIST	L. MARTIN	SCALE	1:5000 METRES (Approximate)
DRAUGHTSMAN	E. VICKERS	100	200 300 400 500
DATE	15th June 1981		
REVISIONS		DRAWING No	3E

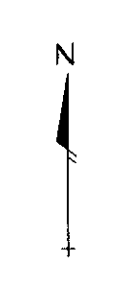
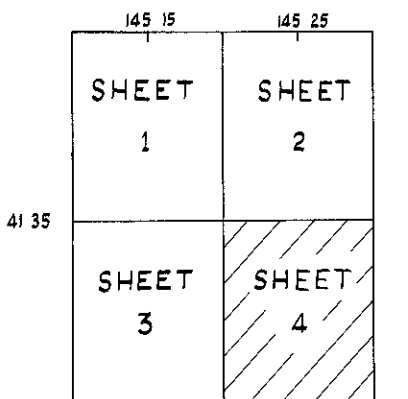
91-1594 2905

2966

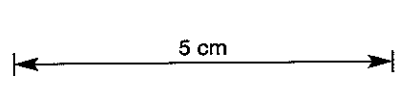


LEGEND

- 10 ppm Background
- 30 ppm Pb Moderately anomalous
- 50 ppm Pb Highly anomalous
- Wilson River Stream Sediment Sampling Rensson Ltd (1981)
- Merton Hill Orientation Survey Rensson Ltd (1980)
- A N Z Exploration Pty Ltd Stream Sediment Sampling (1976)
- x Panned Sample
- y Stream Sediment Sample

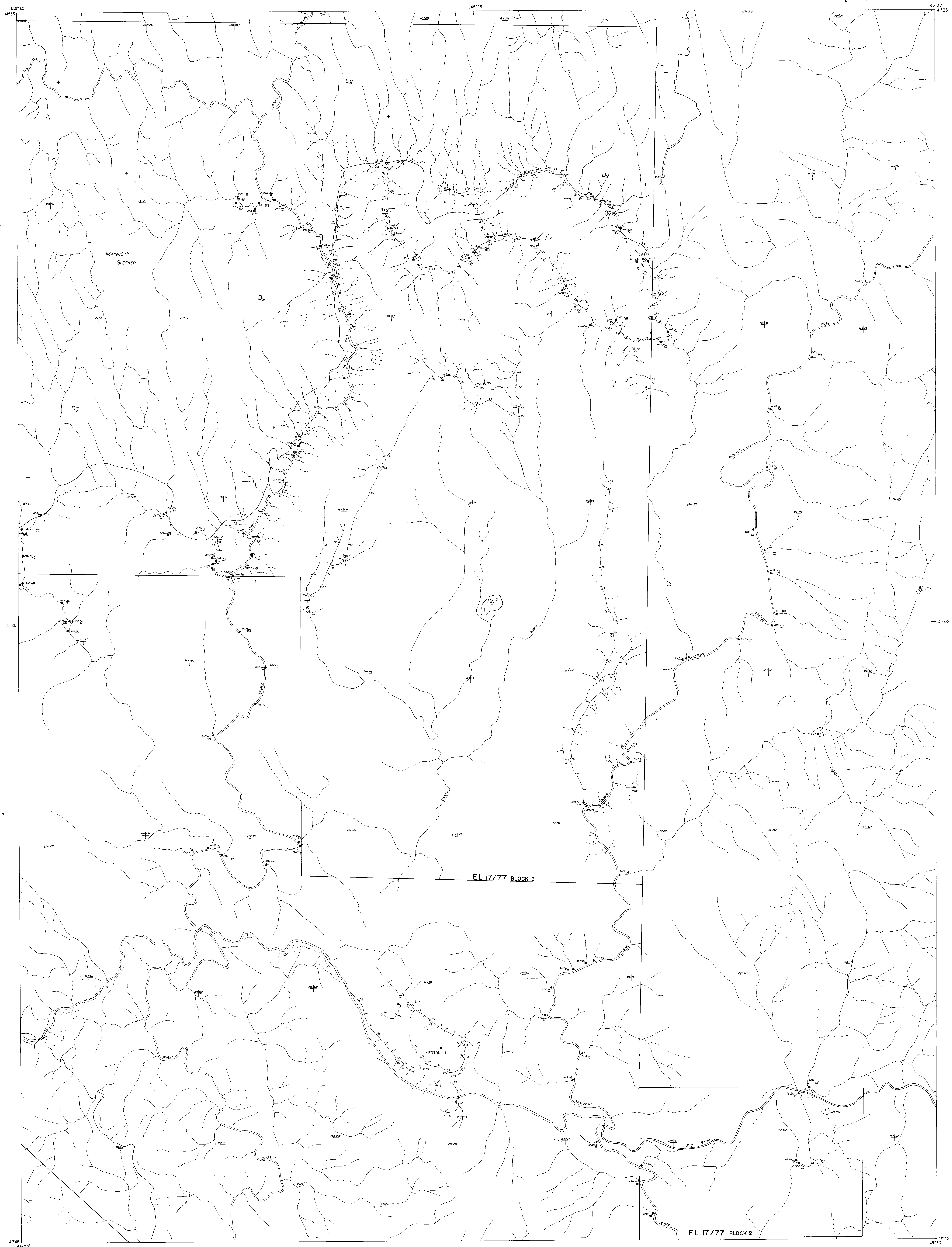


93306S



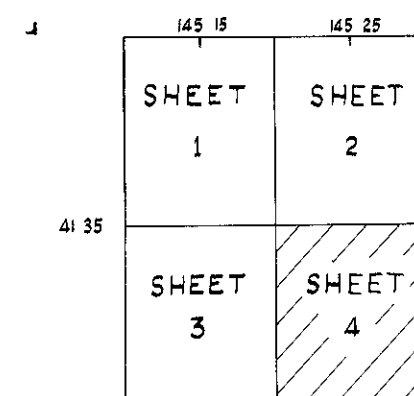
REVISION LIMITED	
MEREDITH GRANITE AREA	
STREAM SEDIMENT SAMPLING - p pm Pb	
GEOLOGIST	L. MARTIN
DRAUGHTSMAN	E. VICKERS
DATE	15th June 1988
REVISIONS	
SCALE 1:15000 METRES (Approximate)	
DRAWING NO. 3F	

2967



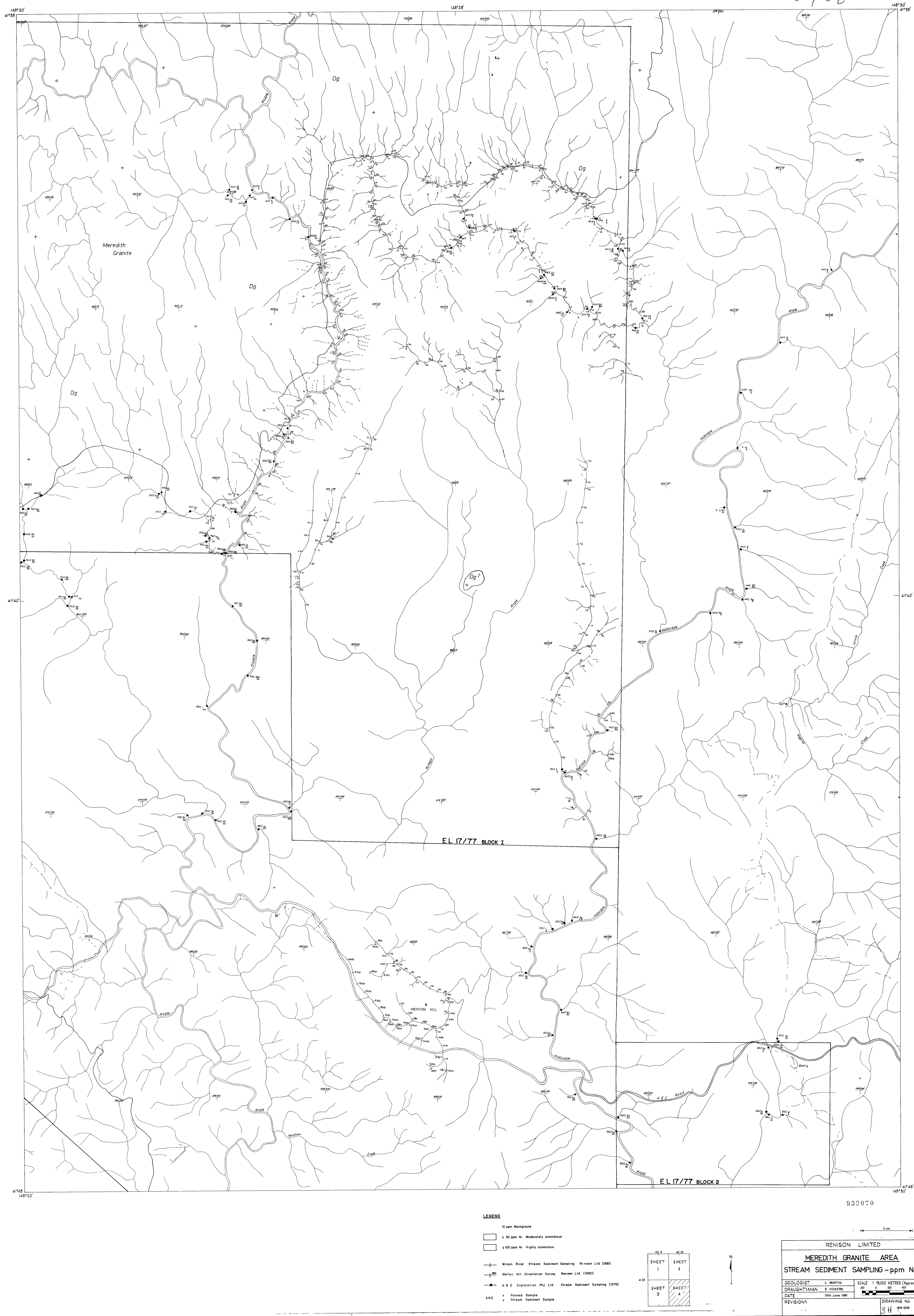
LEGEND

- 15 ppm Background
- > 60 ppm Zn Moderately anomalous
- > 100 ppm Zn Highly anomalous
- Wilson River Stream Sediment Sampling Renison Ltd (1981)
- Merton Hill Orientation Survey Renison Ltd (1980)
- A.N.Z. Exploration Pty Ltd Stream Sediment Sampling (1976)
- ANZ a Panned Sample
- y Stream Sediment Sample



RENISON LIMITED	
MEREDITH GRANITE AREA	
STREAM SEDIMENT SAMPLING - ppm Zn	
GEOLOGIST	L. MARTIN
DRAUGHTSMAN	E. VICKERS
DATE	18th June 1981
REVISIONS	
SCALE 1:15000 METRES (Approximate)	
DRAWING NO. 36	

2968



LEGEND

- 10 ppm Background
- 50 ppm Ni: Moderately anomalous
- 100 ppm Ni: Highly anomalous
- Wilson River Stream Sediment Sampling (1981)
- Merton Hill Orientation Survey (1980)
- ANZ Exploration Pty Ltd Stream Sediment Sampling (1976)
- ANZ
 - x Panned Sample
 - y Stream Sediment Sample

HS 33	HS 34
SHEET 1	SHEET 2
SHEET 3	SHEET 4

RENISON LIMITED

MEREDITH GRANITE AREA

STREAM SEDIMENT SAMPLING - ppm Ni

GEOLOGIST L. MARTIN

SCALE 1:15,000 METRES (Approximate)

DRAUGHTSMAN E. VICKERS

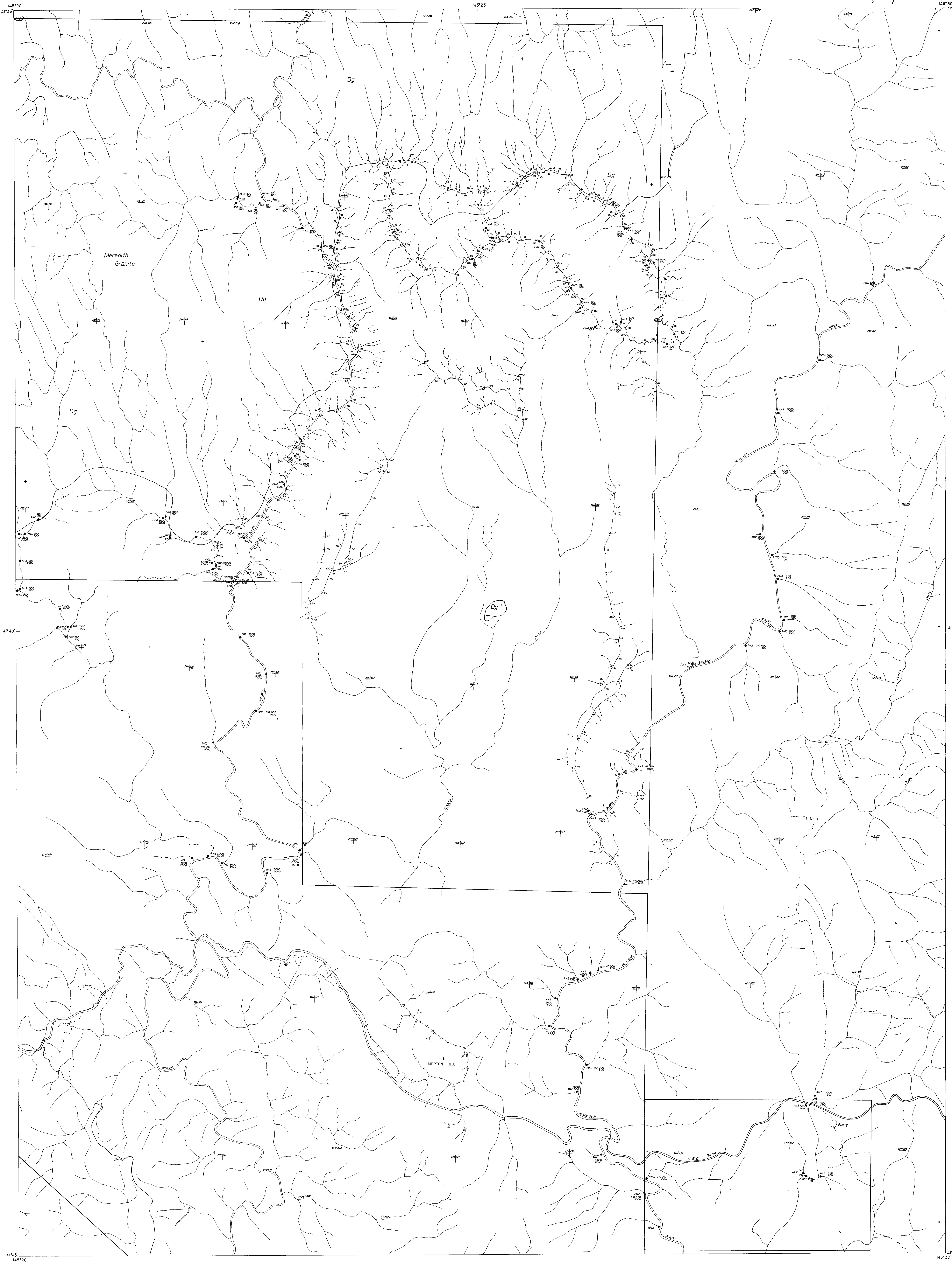
DATE 15th June 1981

REVISIONS

DRAWING No 34

WB 209

2969



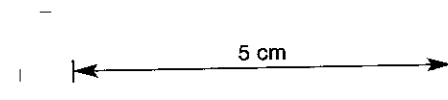
LEGEND

- 10 ppm Background
- 300 ppm Cr - Moderately anomalous
- >100 ppm Cr - Highly anomalous
- Wilson River - Stream Sediment Sampling - Renison Ltd (1981)
- Merton Hill Drumaton Survey - Renison Ltd (1980)
- ANZ Exploration Pty Ltd - Stream Sediment Sampling (1975)
- x - Planned Sample
- y - Stream Sediment Sample

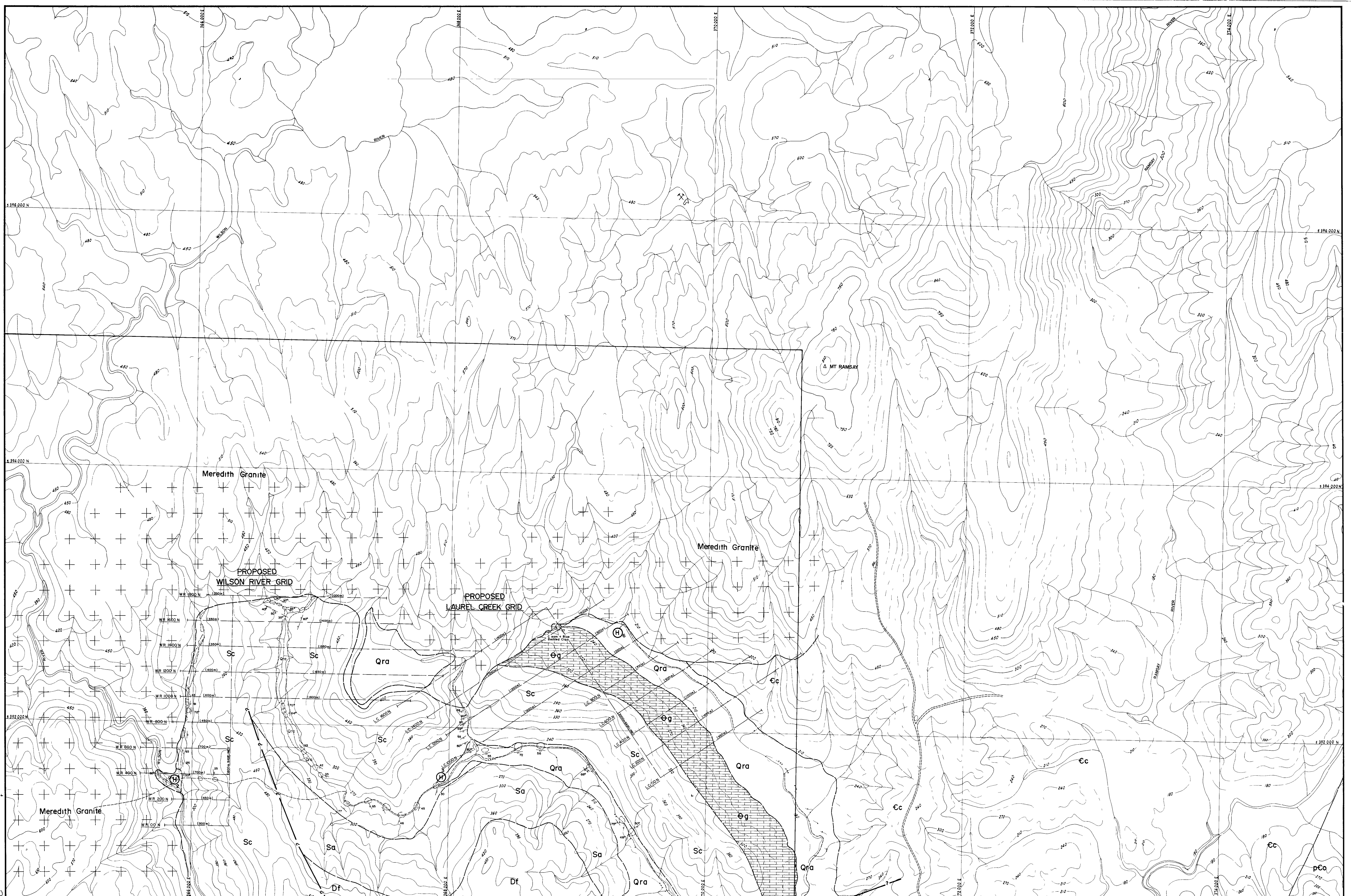
41°35'	41°40'
SHEET 1	SHEET 2
SHEET 3	SHEET 4



933071



RENISON LIMITED	
MEREDITH GRANITE AREA	
STREAM SEDIMENT SAMPLING - ppm Cr	
GEOLOGIST	L.M.
DRAUGHTSMAN	T.R.D.S.
DATE	JULY 1981
REVISIONS	
SCALE 1:15,000 METRES (Approximate)	
DRAWING No. 31-1594	



SEDIMENTARY ROCKS

Quaternary

Recent Alluvium

Tertiary

Tertiary Gravels

Devonian

Bell Shale

Florence Quartzite

Silurian

Undiff. Amber Shale

Siliceous Sandstone member

Limestone member

Cratly Quartzite

Ordovician

Gordon Limestone

Maino P Sandstone

Cambrian

Upper Dundas Group

Black Fossiliferous Pyritic Shale

Crimson Creek Formation

Pre-Cambrian

Gneiss Quartzite and Schist

IGNEOUS ROCKS

Tertiary

Tertiary Basalt

Devonian Meredith Granite

Devonian P Acid Intrusives

Upper Cambrian

Upper Cambrian Serpentinized and Mafic ultra mafic complexes

Cambrian Basic or Gabbroic Rocks

SYMBOLS

Dip and Strike of Bedding (Facing known)

Dip and Strike of Bedding (Facing unknown)

Dip and Strike of Composition Banding

Dip and Strike of Cleavage undifferentiated

Axial Plane of small anticline

Anticline Synclinal Axis

Observed outcrop

Fossil locality

Interpreted Boundary

Fault approximate position

Compositional layering in Ultra mafic

Cleavage parting shear

LEGEND

Helpod

Flagged Walking Track

Proposed Grid Line

4 Wheel Drive Track

DATA SOURCE

Data presented is a compilation of:

- Renison Mapping
- A.V. Brown (1980's) Mines Department
- Photogeological interpretation by P.R. Basher

CORINNA B/4

INTERPRETATIVE AND FACTUAL GEOLOGY PLAN

SCALE 1:10000 METRES

0 100 200 300 400 500 600

RENISON LIMITED

CORINNA B/4

INTERPRETATIVE AND FACTUAL GEOLOGY PLAN

SCALE 1:10000 METRES

0 100 200 300 400 500 600

DRAWN L.A. Martin

TRACED T.G.S.

DATE June 81

SCALE 1:10000

DRAWING No

COMPILED BY L.A. Martin

4A

2970



SEDIMENTARY ROCKS

Quaternary	Devonian	Silurian	Ordovician	Cambric	Pre-Cambrian
Qra Recent Alluvium	Db Bell Shale	Sa Undiv. Amber Shale	Gd Gordon Limestone	Ud Upper Dundas Group	pCo Oreoph. Quartzite and Schist
Tg Tertiary Gravels	Df Florence Quartzite	Sc Corry Quartzite	Em Maine P. Sandstone	Ud Upper Dundas Group	
				Ud Upper Dundas Group	
				Ud Upper Dundas Group	

IGNEOUS ROCKS

Tb Tertiary Basalt	Gs Upper Cambrian Gabbro
Dm Devonian Merdith Granite	Qg Cambrian Gabbro or Gabbroic Rocks
Pa Devonian P. Add Intrusives	

SYMBOLS

- Dip and Strike of Bedding (Facing known)
- Dip and Strike of Bedding (Facing unknown)
- Dip and Strike of Composition Banding
- Dip and Strike of Cleavage, undifferentiated
- Dip and Strike of Cleavage, small anticline
- Anticline, Synclinal Axis
- Observed outcrop
- Fossil locality
- Interpreted Boundary
- Fault, approximate position
- Compositional layering in Ultra-mafic
- Cleavage, parting, shear

LEGEND

- Helipad
- Flagged Walking Tracks
- Cut Grid Line
- Little Wilson River Infill Lines
- 4 Wheel Drive Track
- Unsealed Road

DATA SOURCE:

Data presented is a compilation of:

- Renison Mapping
- A.V. Brown (1980's) - Mines Department
- Photogeological interpretation by P.R. Bosher

CORINNA D/2

INTERPRETATIVE AND FACTUAL GEOLOGY PLAN.

SCALE: 1:10,000 METRES

5 cm

RENISON LIMITED 93307

DRAWN: L.A. Martin

TRACED: T.G.D.S.

DATE: June '81

SCALE: 1:10,000

DRAWING No.

COMPILED BY: L.A. Martin

4C

