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D of M	A.O.	C.G.	E.O.	D.S.M.E
Received Answered				26 JUL 1983
DEPT. OF MINES				REF. No. 65-70/83
Registrar				E & IL

THE SHELL COMPANY OF AUSTRALIA LIMITED

METALS DIVISION

E.L. 7/74 - MOINA

RELINQUISHED AREAS

Report on Areas Relinquished at 18/1/83

83-1999

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INDEXED
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Author: W.D. SMYTH

Report No: 08.1263

Date : 9-7-83

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FIGURES

FIGURE 1 : LOCATION & ACCESS

LIST OF PLANS

<u>PLAN NO.</u>	<u>TITLE</u>
D/MZ 01/148	Regional Geology ✓
D/MZ 01/208	Cadastral Sheet 4339 - Geology
D/MZ 01/209	Cadastral Sheet 4340 - Geology
D/MZ 01/129	Cadastral Sheet 4240 - Geology
D/MZ 01/301	Cadastral Sheet 4239 - Geology
D/MZ 01/299	Cadastral Sheet 4140 - Geology
D/MZ 01/300	Cadastral Sheet 4139 - Geology
D/MZ 01/246	Cadastral Sheet 4139 - Regional Sampling
D/MZ 01/244	Cadastral Sheet 4140 - Regional Sampling
D/MZ 01/245	Cadastral Sheet 4239 - Regional Sampling
D/MZ 01/1054	Cadastral Sheet 4339 - Residual Magnetic Contours
D/MZ 01/1052	Cadastral Sheet 4340 - Residual Magnetic Contours
D/MZ 01/1050	Cadastral Sheet 4239 - Residual Magnetic Contours
D/MZ 01/1024	Cadastral Sheet 4240 - Residual Magnetic Contours
D/MZ 01/1046	Cadastral Sheet 4241 - Residual Magnetic Contours
D/MZ 01/1038	Cadastral Sheet 4139 - Residual Magnetic Contours
D/MZ 01/1036	Cadastral Sheet 4140 - Residual Magnetic Contours
D/MZ 01/1055	Cadastral Sheet 4339 - Total Count Radiometrics
D/MZ 01/1053	Cadastral Sheet 4340 - Total Count Radiometrics
D/MZ 01/1051	Cadastral Sheet 4239 - Total Count Radiometrics
D/MZ 01/1025	Cadastral Sheet 4240 - Total Count Radiometrics
D/MZ 01/1047	Cadastral Sheet 4241 - Total Count Radiometrics
D/MZ 01/1039	Cadastral Sheet 4139 - Total Count Radiometrics
D/MZ 01/1037	Cadastral Sheet 4140 - Total Count Radiometrics
D/MZ 01/275	Liena West Aeromagnetic Anomaly 4339/4 - Ground Magnetics
D/MZ 01/276	Liena West Aeromagnetic Anomaly 4339/4 - Slope Corrections
D/MZ 01/252	South Nietta Aeromagnetic Anomaly 4241/10
TAS/77/98A	Cadastral Sheet 4139 - -20# Stream Sediment Sampling
TAS/77/98B	Cadastral Sheet 4140 - -20# Stream Sediment Sampling
TAS/77/98D	Cadastral Sheet 4239 - -20# Stream Sediment Sampling
TAS/77/98E	Cadastral Sheet 4240 - -20# Stream Sediment Sampling
TAS/79/313	Cadastral Sheet 4140 - -80# Stream Sediment Sampling
D/MZ 01/166	Cadastral Sheet 4140 - Panned Concentrates
D/MZ 01/297	Bull Creek Stream Sediment Follow-up
D/MZ 01/298	Olivia Creek Stream Sediment Follow-up

SUMMARY

The area relinquished has been investigated regionally by geological, geophysical (aeromagnetic/radiometric) and geochemical (stream sediment sampling) methods without locating a target of interest.

A large area and considerable thickness of basalt blankets much of the prospective stratigraphy (Cambrian volcanics, Gordon Limestone).

No worthwhile target remains to be investigated within the area relinquished.

1.0 INTRODUCTION

The Shell Company of Australia relinquished title to 224 sq km of Exploration Licence 7/74, Moina on 18th January, 1983.

This report covers all investigations in the relinquished areas of the licence undertaken by both The Shell Company of Australia Limited and Comalco Exploration.

2.0 LOCATION & ACCESS

Access within the area is quite good via several main roads and numerous well kept forestry tracks.

3.0 EXPLORATION TARGETS

The main targets within the area were a Moina skarn or other Sn/W replacement deposit and volcanogenic massive sulphide deposits.

4.0 REGIONAL GEOLOGY

The licence covers parts of the Mackintosh, St. Valentines, Sheffield and Middlesex 1 inch to 1 mile sheets. (Refer Plan D/MZ 01/148).

The southern portion of the licence includes part of the Precambrian Cradle Mountain Block. This is unconformably overlain and intruded by Cambrian volcanics, mainly acid, which in turn are unconformably overlain by the conformable Ordovician sequence of Roland Conglomerate, Moina Sandstone and Gordon Limestone. The Silurian Eldon Sandstone appears to lie conformably on the Gordon Limestone.

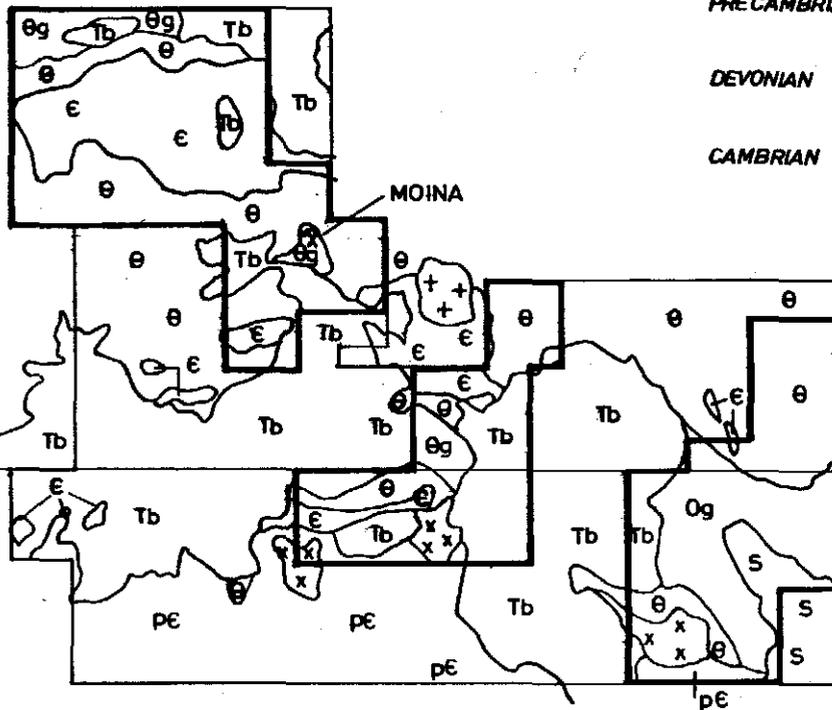
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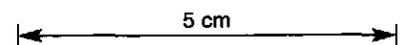


LEGEND

TERTIARY	Tb	BASALT
	S	POST SLURIAN
ORDVICIAN	Og	GORDON LIMESTONES
	θ	MOINA SANDSTONE / ROLAND CONGLOMERATE
CAMBRIAN	ε	VOLCANICS AND SEDIMENTS
PRECAMBRIAN	pε	SCHISTS PHYLLITE
DEVONIAN	+ +	GRANITE
CAMBRIAN	x x	GRANITE
	[Outline]	ORIGINAL E.L. BOUNDARY
	[Shaded Box]	AREA RETAINED



5 400 000 N



The Shell Company of Australia Limited
METALS DIVISION

E.L. 7 74 MOINA RELINQUISHED AREA

Scale: 1:250 000

FIG No 1	REPORT No
ENCL No	DRG No D/MZ01/302
DATE 22-7-83	AUTHOR W.D.S.
DRAWN JLL	OFFICE D'PORT

440 000 E

A Devonian granite, the Dolcoath Granite, intrudes these rocks and may be responsible for numerous small Pb, Zn, Au, Sn, W lodes and the major Moina deposit.

Tertiary basalt overlies much of the area.

Devonian folding produced open upright folds trending east-west in the north and east of the licence and trending north-east in the southwest of the licence. Some interference of these two fold directions is evident.

5.0 INVESTIGATIONS COMPLETED

The investigations into the area have been regional in nature and include reconnaissance geology, stream sediment sampling and an aeromagnetic/radiometric survey.

5.1 Geology

The area relinquished consists mainly of Precambrian schists and Tertiary basalt. A few minor areas of Cambrian volcanics are exposed through windows in the basalt and Ordovician sandstones.

The small northern block is covered by Tertiary basalt probably overlying Cambrian volcanics and some Ordovician sandstones. One magnetic anomaly was studied in this block.

The southwestern block (Cadastral Sheets 4139, 4140, 4239, 4240) consists of Precambrian schists in the south, a zone of basalt in the centre and mostly Moina Sandstone in the north. Several small isolated outcrops of Cambrian volcanics are scattered throughout the area.

In the eastern block (Cadastral Sheets 4339, 4340) the major portion of the area is covered by basalt with a small zone of ^Pprecambrian schists in the south and Moina Sandstone/Roland Conglomerate to the north. One aeromagnetic anomaly was investigated in this block.

The main area of interest was the Cambrian volcanics exposed in the south western block, in the Middlesex Plains area. Outcrops were visited and rock chip samples taken for geochemical analysis and petrographic examination (Appendix 1). One rhyolite adjacent to the Cradle Mountain Road at 5,389,500 m N 413,300 m E (approx.) has values of 80 ppm Pb, 150 ppm Zn and 120 ppm Pb, 100 ppm Zn.

Follow up sampling of a minor Pb stream sediment anomaly at Luna Creek located Cambrian volcanics and also quartz veined Moina Sandstone float with slightly elevated Pb values (50 ppm Pb).

Several samples of Precambrian pyritic carbonaceous shales were analysed, but found to be low in base metals. One pyritic-quartz vein associated with a northwest shear direction had values of 260 ppm Mo, 85 ppm As, 350 ppm Ba, 46 ppm Sn and 35 ppm W (5,386,200 m N 418,000 m E approx.). (Refer Plans D/MZ 01/208, 209, 129, 301, 299, 300, 246, 244, 245).

5.2 Geophysics

The whole of the licence has been covered by an aeromagnetic/radiometric survey flown at 250 m line spacing at anominal height of 80 m.

The magnetics outline the areas of basalt quite well as other units are not similarly magnetic. It was hoped to locate a Moina type magnetic target or possibly a Renison type target. Two anomalies were thought worthy of further consideration.

The radiometrics are useful mapping tools. No anomalies were picked for investigation. (Refer Plans D/MZ 01/1054, 1052, 1050, 1024, 1046, 1038, 1036, 1055, 1053, 1051, 1025, 1047, 1039, 1037).

5.2.1 Liena West Aeromagnetic Anomaly 4339/4

This anomaly occurs over basalt which overlies Gordon Limestone.

A grid was established and a ground magnetic survey carried out. Magnetic susceptibilities of up to 1250×10^{-6} cgs units were recorded. It is thought the anomaly is due to a basalt source.

No further work was done on the anomaly. (Refer Plans D/MZ 01/275, 276).

5.2.2 South Nietta Aeromagnetic Anomaly 4241/10

This anomaly occurs over basalt overlying probable Cambrian Volcanics. (Appendix 3).

Road traverses and compass and pace traverses were made across the anomaly. It is thought the anomaly is due to basalt plus a possible contribution from volcanics known elsewhere to be magnetic (susceptibilities up to 2000×10^{-6} cgs units). No further work has been done of this anomaly. (Refer Plan D/MZ 01/252).

5.3 Geochemistry

Regional stream sediment geochemical surveys have been done by Comalco over the south western block excluding most of the Precambrian in the south.

An initial -20# survey was done over portions of Cadastral Sheets 4139, 4140, 4239, 4240. (Refer Plans TAS/77/98A, 98B, 98D, 98E). Samples were analysed for Cu, Pb, Zn, Sb, F, Bi, Ag.

A follow up -80# and panned concentrate sampling programme was done on Cadastral Sheet 4140 (Refer Plans TAS/79/313, D/MZ 01/166).

Another survey of 6 samples was done by Comalco in Campbell Creek, 1.5 km south of the junction with the Dove River (Appendix 2).

5.3.1 Bull Creek Stream Sediment Anomaly

Elevated Pb values of the Comalco -20# survey were repeated by a survey by S.C.O.A. The anomaly appears to come from an area of Moina Sandstone outcrop. A petrographic description indicated the presence of fluorite and tourmaline in panned concentrates. (Refer Plan D/MZ 01/297, Appendix 1 : Petrography).

5.3.2 Olivia Creek Stream Sediment Anomaly

A survey to follow up high Cu, Ag values of the -20# survey failed to repeat the values for Ag. One sample had an anomalous Sn value. (Refer Plan D/MZ 01/298).

5.4 Gads Hill Zeolites

The Commonwealth Aluminium Corporation Limited investigated the potential of zeolites at Gads Hill in the major basalt area. Two diamond drill holes were drilled.

No further work was done on the area.

The reader is referred to:

Askins, P.W., May, 1980. "E.L. 7/74 Tasmania, Report on Investigations, Zeolites, Gads Hill Area".
Commonwealth Aluminium Corporation Limited.

80-1441

013

6.0 CONCLUSIONS & RECOMMENDATIONS

The area relinquished consists mainly of Precambrian schists, Ordovician Moine Sandstone and Tertiary basalt. The prospective stratigraphy for basemetal sulphides (Cambrian volcanics) and replacement tin sulphide bodies (Ordovician Gordon Limestone) represent only a small proportion of the outcrop.

The blanketing effect of the basalt limits the usefulness of geophysical methods in the area and restricts the usefulness of stream sediment geochemical surveys.

The area has been covered by an airborne magnetic/radiometric survey. Two anomalies were picked for follow-up. Neither was thought prospective after a ground magnetic check.

Stream sediment surveys have covered much of the western half of the relinquished area excepting the Precambrian. Three anomalies were followed up. The headwaters of one of these anomalies was retained, the other two were not of interest.

No other anomalous areas were located.

It is recommended that this ground be dropped.

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APPENDIX 1

PETROGRAPHIC REPORTS

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552016

Central Mineralogical Services



39 Beulah Road
Norwood, S.A. 5067
Telephone 42 5659

Mr. W.D. Smyth
Exploration Geologist
The Shell Co. of Aust. Ltd.
Metals Division
P.O. Box 860
DEVONPORT / TAS. 7310

16th July, 1982

REPORT CMS 82/6/15

YOUR REFERENCE:	Sample Despatch No. 4136/MZ01/WDS/141
DATE RECEIVED:	18th June, 1982
SAMPLE NOS.:	6 Samples
SUBMITTED BY:	W.D. Smyth
WORK REQUESTED:	Petrology

Rebate July 82

H.W. Fander.
H.W. Fander, M. Sc.

REPORT CMS 82/6/15Cambrian Volcanics - Northern Tasmania

Six rock samples were received for petrological examination; thin-sections were prepared, and offcuts were subjected to potash stain tests to aid identification and interpretation. The rocks are briefly described in the accompanying table.

Summary

All six rocks are believed to be igneous; five of them are broadly similar, but 5480 is quite different and appears out of context with the others in both composition and fabric; it is a deuterically altered andesite thought to be post-Cambrian.

The five similar rocks are all altered to varying degrees, with superimposed mild shearing; two are thought to be rhyolitic lavas (5478, 5483), one is a biotitised intrusive rhyolite (5494), and two appear to be fragmental (5495, 5496), possibly tuff-lavas or related "mixed" pyroclastic/extrusive types, of broadly rhyolitic composition.

H.W. Fander, M. Sc.

	Rock type	Compositional	Fabric	Alteration	Comments
78 S. 80)	<u>Altered Porphyritic Rhyolite.</u> Corroded, embayed phenocrysts of beta-quartz set in a groundmass of quartz, fine illite-sericite aggregates.		Poorly-preserved flow-banding in places. Fine-grained, featureless.	Fe-staining. Compact hematite-goethite patches after ?sulphides.	"Rhyolite" used in broad sense only because all feldspars argillised. Probably extrusive.
30	<u>Epidotised Porphyritic ?Andesite.</u> Numerous small euhedral oligoclase-andesine phenocrysts; plagioclase groundmass largely replaced by fine epidote.		Random orientation; spherulitic or orbicular textures in groundmass.	Epidotised hornblende. Isolated oxide opaques. Quartz veins.	Lack of flow-features suggests rock was intrusive. Feldspar-rich (leucocratic), with pervasive deuteric alteration.
3	<u>Sheared Porphyritic Rhyolite.</u> Embayed phenocrysts of beta-quartz and of albite set in sheared groundmass of fine quartz, sericite, feldspar.		Quite well-preserved flow-banding, small-scale brecciation.	Small leucoxene patches. Accessory apatite.	Similar to, and probably correlatable with, 5478, but fresher; a sodic rhyolite (no K), probably extrusive.
4	<u>Biotitised Porphyry.</u> Scattered quartz and sericitised feldspar phenocrysts, many pseudomorphs of fine dark biotite aggregates; fine quartz matrix.		Random porphyritic fine-grained igneous fabric. Intrusive.	Accessory zircon, leucoxene. Goethite veinlets.	Fabric suggests a minor intrusive; biotite probably replaces plagioclase, and rock was intrusive rhyolite/toscanite.
5	<u>Altered Acid Volcanic.</u> Crystal fragments of quartz, K-feldspar, and patches of finely-intergrown quartz-topaz, in fine quartz-K-feldspar matrix.		Vaguely banded or bedded, with some ?clastic/pyroclastic features.	Isolated euhedral zircon. Replacive muscovite flakes.	Relationships not clear; may be a mixed rock, lava with pyroclastic material ("tuff-lava").
6 S. 85)	<u>Sheared, Sericitised Acid Volcanic.</u> Elongate fragments of altered porphyry, felsite, quartz, altered feldspar; schistose sericitic matrix.		Poor sorting/sizing; good schistosity, mainly confined to sericite.	Isolated fragments of quartz-mica schist; fine hematite in places.	Could have been a lapilli tuff or coarse tuff-lava, but shearing and sericitisation are superimposed on fabric.

018

Central Mineralogical Services



39 Beulah Road
Norwood, S.A. 5067
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Mr. W.D. Smyth
Exploration Geologist
The Shell Co. of Aust. Ltd.
Metals Division
P.O. Box 860
DEVONPORT / TAS. 7310

27th July, 1982

REPORT CMS 82/7/2

YOUR REFERENCE:	Sample Despatch No. 4140/MZ01/WDS/145
DATE RECEIVED:	1st July, 1982
SAMPLE NOS.:	5498, 5545
SUBMITTED BY:	W.D. Smyth
WORK REQUESTED:	Petrology

Received July 82

H.W. Fander
H.W. Fander, M. Sc.

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

Job No. CMS 82/7/2 Date Received: 1.7.1982Reference Sample Despatch No. 4140/MZ01/WDS/145Sample No. 5498, 5545Nature of Sample: Hand SpecimensDESCRIPTION SECTION No. 42610, 42611

a. Hand Specimen:

b. Microscopic:

5498 (T.S. 42610) K-stain test negative.

This is a fine-grained metaquartzite, finely-banded, but not schistose; it originated as a laminated argillaceous sandstone or siltstone. The rock appears to have been contact-metamorphosed/metasomatised and subsequently sericitised (i.e. retrograded).

The rock consists of small interlocking quartz grains forming thin, irregular bands, separated by bands of muscovite flakes and patches of sericitised ?feldspar; in places, the sericite patches show fibrous textures and may have been tremolite or a similar mineral. The muscovite is present as randomly orientated irregular poikiloblasts, typical of a metasomatic mode of formation. Small leucoxene grains are relatively conspicuous throughout. No volcanic components were detected.

5545 (T.S. 42611) K-stain test negative.

This rock is best classified in general terms as a sericitised quartz porphyry; it was a minor or shallow intrusive, of broadly granitic composition, although the feldspars are totally altered and an accurate classification is no longer possible.

The rock is composed of relatively small phenocrysts of corroded quartz and sericite pseudomorphs after feldspar, randomly scattered through a micro-crystalline groundmass of quartz and sericite. There are scattered single crystals, and stringers/veins, of ?oxidised pyrite represented by fine hematite-goethite, accompanied by occasional small stubby tourmaline crystals.

IDENTIFICATION

5498, 5545

The sericitisation may be regarded as a low-temperature form of greisenizing with possible sulphide emplacement.

The rock itself is more reminiscent of Devonian intrusives than, say, Mt. Read Volcanics.

H.W. Fander, M. Sc.

APPENDIX 2Campbell River Area

As a check on copper geochemical anomalies previously discovered in this area by Mt. Lyell (Reid, 1967) six stream sediment samples were taken in the Campbell River and tributaries about 1.5 km upstream from the Dove River junction.

Samples were seived to -80# and sent to the Comalco Laboratory, Melbourne for Cu, Pb, Zn, Bi, Mo analyses. Copper values are all anomalous (compared to the main -80# survey results) with values up to 375 ppm.

A few rock samples of dyke like weathered material in the Pre-cambrian schists/quartzite host rocks were taken. The samples contain up to 340 ppm Cu, so such dykes might be the cause of the Cu anomalies, though more investigation is needed, particularly as copper may be associated with gold in this area - alluvial gold has been worked nearby according to Nevill McCoy (prospector).

The geochemical analyses and rock analyses are compiled in Table 3-1.

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COMALCO LIMITED

552023

PROJECT

CAMPBELL RIVER

No.

SUBJECT

STREAM SEDIMENT + ROCK SAMPLING

PREP. BY

P. POLTOCK | P. ASKINS

DATE

MAR '80

SHEET

1 OF 1

STREAM SEDIMENT SAMPLES

Sept 1976

-80 mesh, analyses by Comalco Labs by AAS, pp

Sample No. RP/T/CR/D	Nat. Grid Co-ord.	Cu	Pb	Zn	Bi	Mo
01	42360539480	115	20	115	<20	<20
02	42350539480	105	20	85	<20	<20
03	42360539495	290	15	120	<20	<20
04	42350539495	230	20	105	<20	<20
05	42315539500	375	15	115	<20	<20
06	42310539510	315	55	50	<20	<20

ROCK SAMPLES

Sample No.	Cu	Pb	Zn	DESCRIPTION
GW/T/CR R 01	18	160	18	Contact material - quartzite with Dove Granite
2	2	15	50	Weathered Dove Granite dyke like material and chilled margin.
3	140	15	60	
4	130	15	12	
5	340	25	10	
6	60	8	42	

023

APPENDIX 3

GEOPHYSICAL MODELLING 4241/10

Date 20th October, 1982

From G. Oakes (BXN)

To B. Smythe (BXH)

2

AEROMAG. ANOMALIES : MOINA ~~MO~~ MARRAWAH

4241/10 (MOINA).

I have quickly modelled the data from tie line 1 (which is roughly perpendicular to strike of the anomaly and covers it reasonably well), with some data from tie line 2 (see Fig.1). There is definitely a strong basalt hash in the magnetics, but there is an underlying anomaly superimposed on this, which gives the following parameters:-

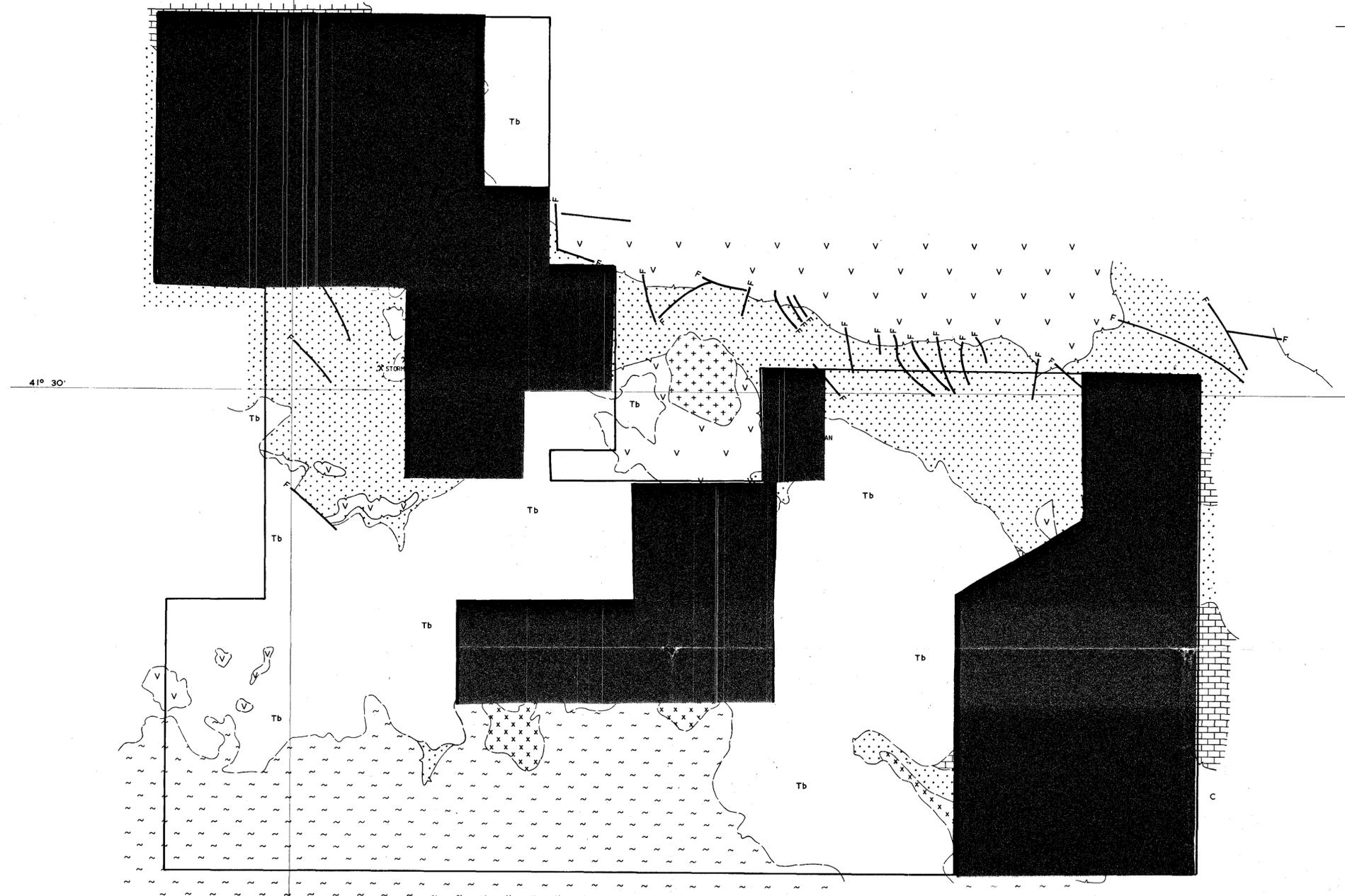
- strike W of N (fits aeromag. feature)
- dip shallowly NE
- top located at approx. 170 E on tie line 2
- depth roughly 50 m (not well constrained due to noise and lack of time for further modelling) - could well be a shallower source.
- depth extent of the order of 90m (not well constrained due to short lines).
- thickness of the order of 20m.
- susceptibility of the order of 45000×10^{-6} cgs units (although a thicker body of lower susceptibility or closer to the surface could easily give a similar anomaly).

Basically, the thickness and shallow dip would be reasonable for a basalt source, but the modelled susceptibility is rather high. Therefore, the first thing to do is check remanence (Q of 10-20 is required to explain the anomaly, which is high but not unreasonable). If the anomaly is not clearly basalt after this, then a small grid may be worthwhile (3 x 800m lines, 200m apart and parallel to tie line 2 and centred on 100 W of tie line 2). This should be covered with max-min (200m coil sepn.) and mag. (10m station spacing). If there is no max-min anomaly, forget it.

BOXWOOD HILL (MARRAWAH)

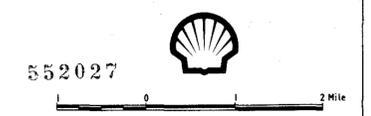
Figure 2 shows a model which gives a reasonable fit to the magnetics: a shallow body at 330 W, of limited depth extent and clipping shallowly W. The modelled susceptibility is fairly high (20000×10^{-6} cgs.), but the geometry of the body and location on a topographic feature would fit a basalt source.

Again, the first thing to do is to check remanence, preferably in a sample from 330W - 350W; a Q of the order of 10 is required to explain the anomaly (which fits basalt on the Housetop E.L.'s, but don't know about Marrawah). If remanence is not significant, try a line of max-min (150m coil sepn., after extending line 200m to west).



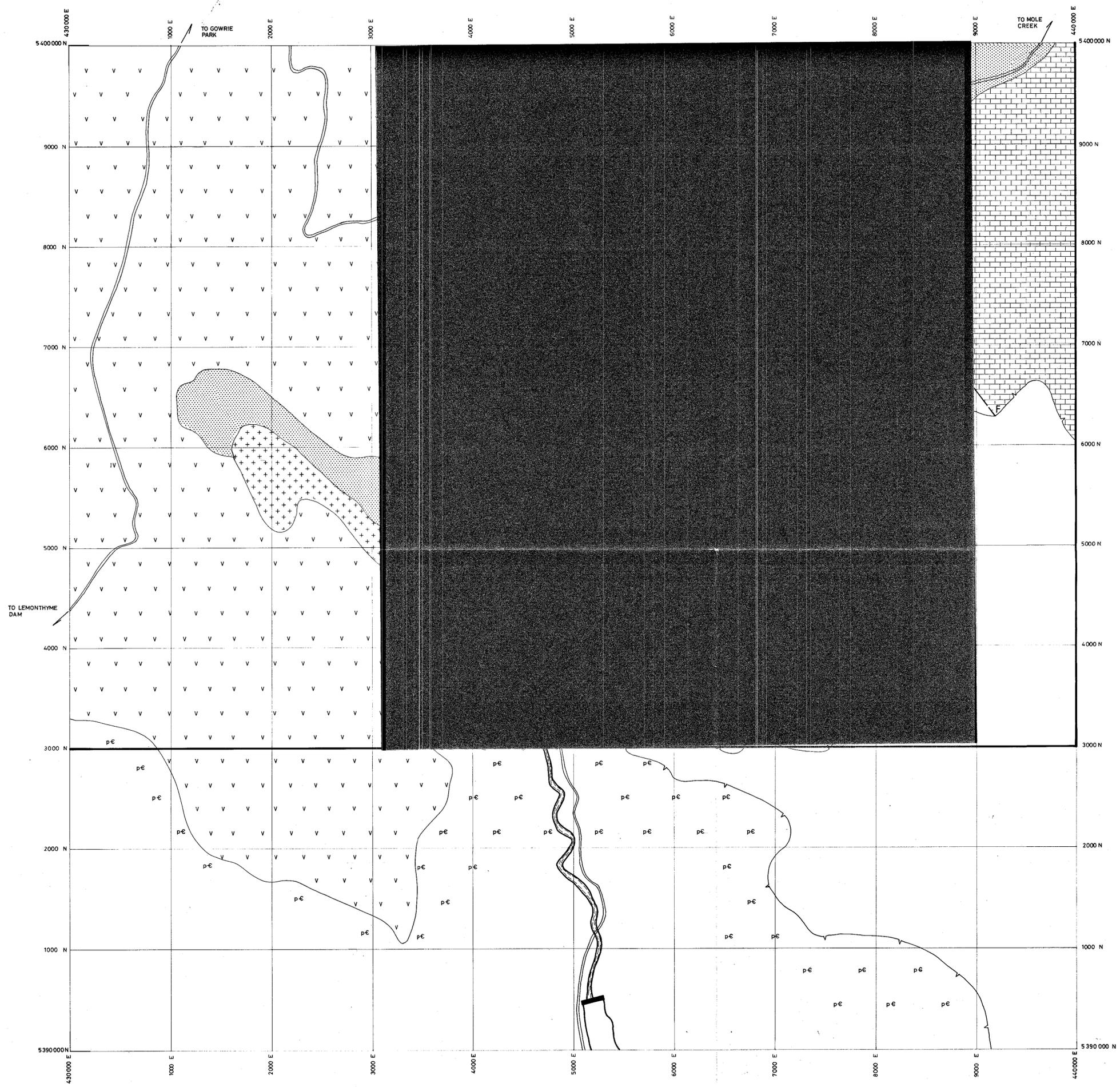
LEGEND

TERTIARY	Tb	Basalt	Ordovician	Gordon Limestone	Dalcoath Granite
CARBONIFEROUS	C	Sediments		Moina Sandstone / Roland Conglomerate	Dove Granite
SILURIAN		Eldon Group		Unconformity	Fault
			CAMBRIAN	Volcanics	Aeromagnetic Anomaly
				Unconformity	
			PreCambrian	Quartzite	



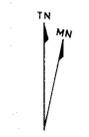
The Shell Company of Australia Limited METALS DIVISION	
E.L. 774 MOINA REGIONAL GEOLOGY	
Scale 1:63,360 1633	
FIG. No.	REPORT No.
ENCL. No.	DRG. No. 0 / HZ 01 / 148
DATE 27-8-81	AUTHOR W. D. SHYTH
DRAWN O. HEDDITCH	OFFICE DEVONPORT

93-1999



LEGEND

-  Tertiary basalt
-  Gordon Limestone
-  Maina Sandstone
-  Pre-Cambrian volcanics
-  Eldon formation
-  Granite



552028

83-1999

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METALS DIVISION

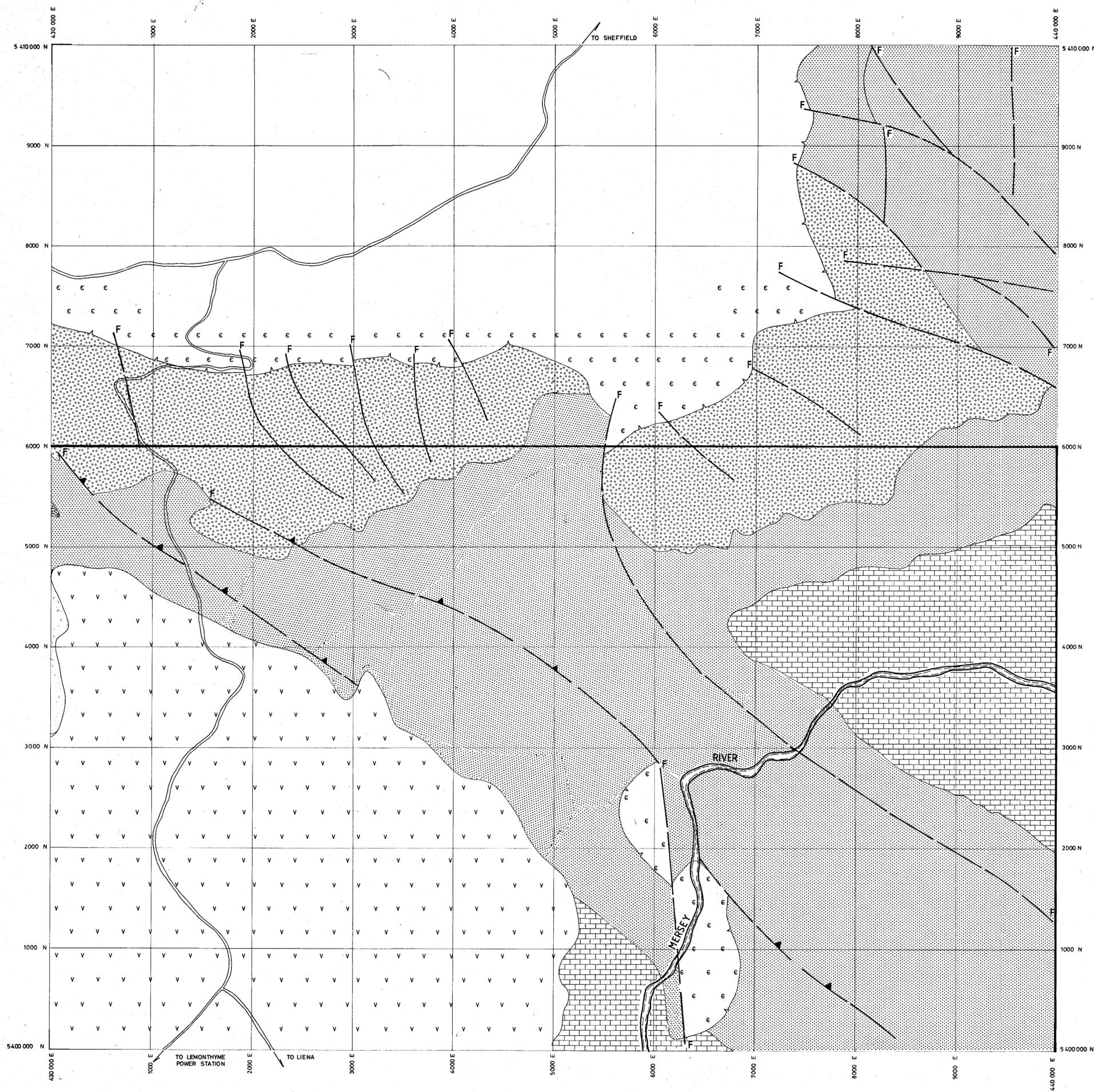
**E.L. 7/74 MOINA
CADASTRAL SHEET 4339
GEOLOGY**

1634

Scale 1:20 000

FIG No.	REPORT No.
ENCL. No.	DRG. No. D/M201/208
DATE 24-11-81	AUTHOR W.D. SMYTH.
DRAWN H.L.H.	OFFICE DEVONPORT





LEGEND

-  Tertiary basalt
-  Gordan Limestone
-  Moira Sandstone
-  Roland conglomerate
-  Undifferentiated



552029

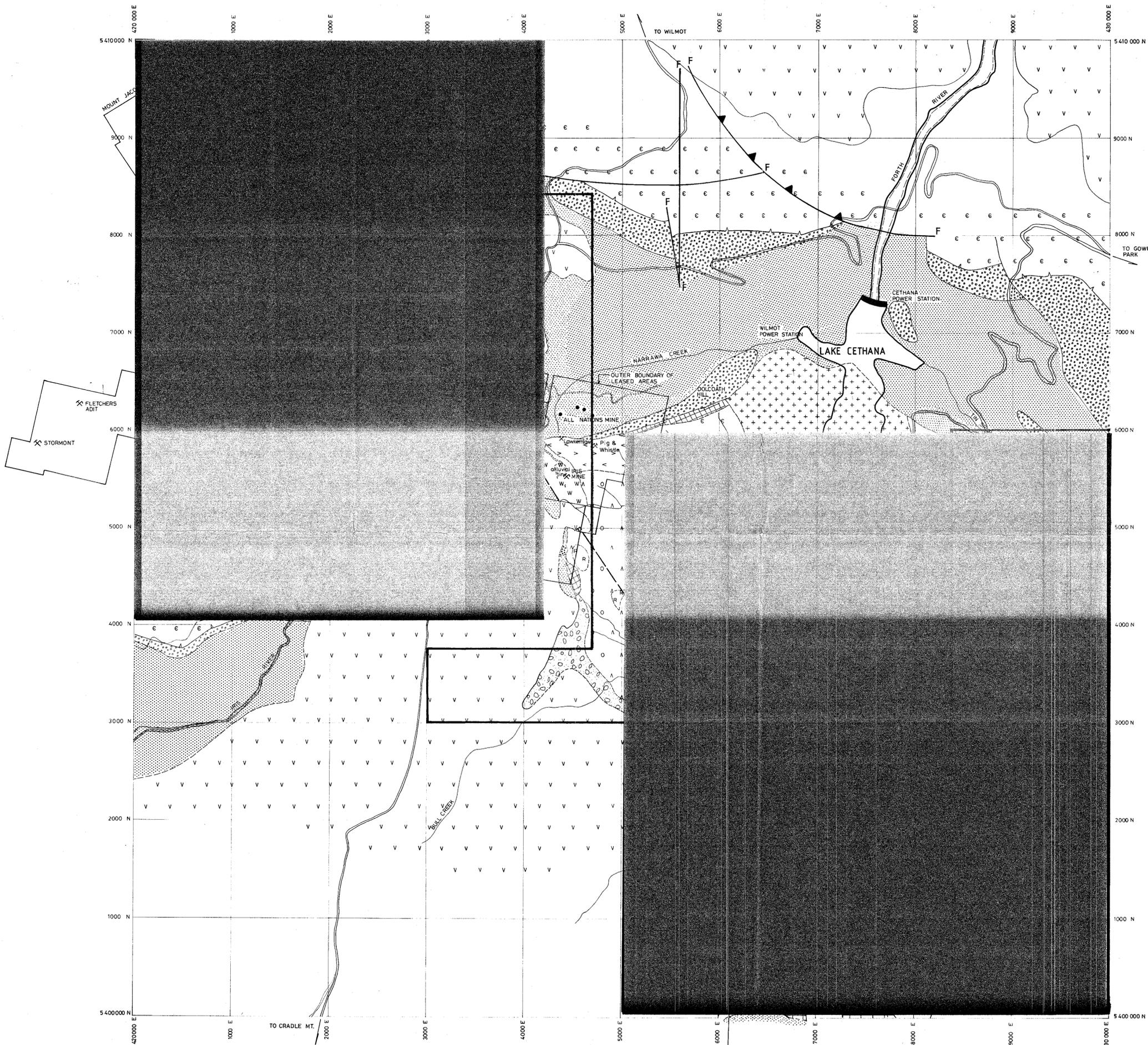
The Shell Company of Australia Limited
 METALS DIVISION
 E.L. 7/74 MOIRA
 CADASTRAL SHEET 4340
 GEOLOGY

Scale 1:20 000

FIG. No.	REPORT No.
ENCL. No.	DRG. No. D/MZ01/209
DATE 25-11-81	AUTHOR W.D. SMYTH.
DRAWN H.L.H.	OFFICE DEVONPORT



83-1999



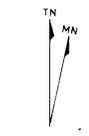
LEGEND

- | | | | |
|--|--|--|--|
| | Alluvium, in situ weathered rock and man disturbed surface workings. | | Andesite |
| | Alluvium, river gravels. | | Undifferentiated |
| | Sandstone talus. | | Quartz, hornblende, feldspar porphyry. |
| | Basalt talus and basalt soils. | | Acid tuffs |
| | Tertiary basalt. | | Rhyolite |
| | Greybilly. | | Silty chert |
| | Gordon Limestone | | Granite |
| | Maina Sandstone | | Gossan/Laterite |
| | Roland conglomerate | | Geological boundary |
| | Creek | | Lode |
| | Road | | Gaena, sphaerite |
| | Fault | | Diamond drill holes/
Percussion drill holes |
| | Syncline | | |
| | Anticline | | |
| | Plunging syncline | | |
| | Thrust fault | | |
| | Unconformity | | |

ORDOVICIAN

CAMBRIAN

DEVONIAN



552030

The Shell Company of Australia Limited
METALS DIVISION
 E.L. 7/74 MOINA
 CADASTRAL SHEET 4240
 GEOLOGY

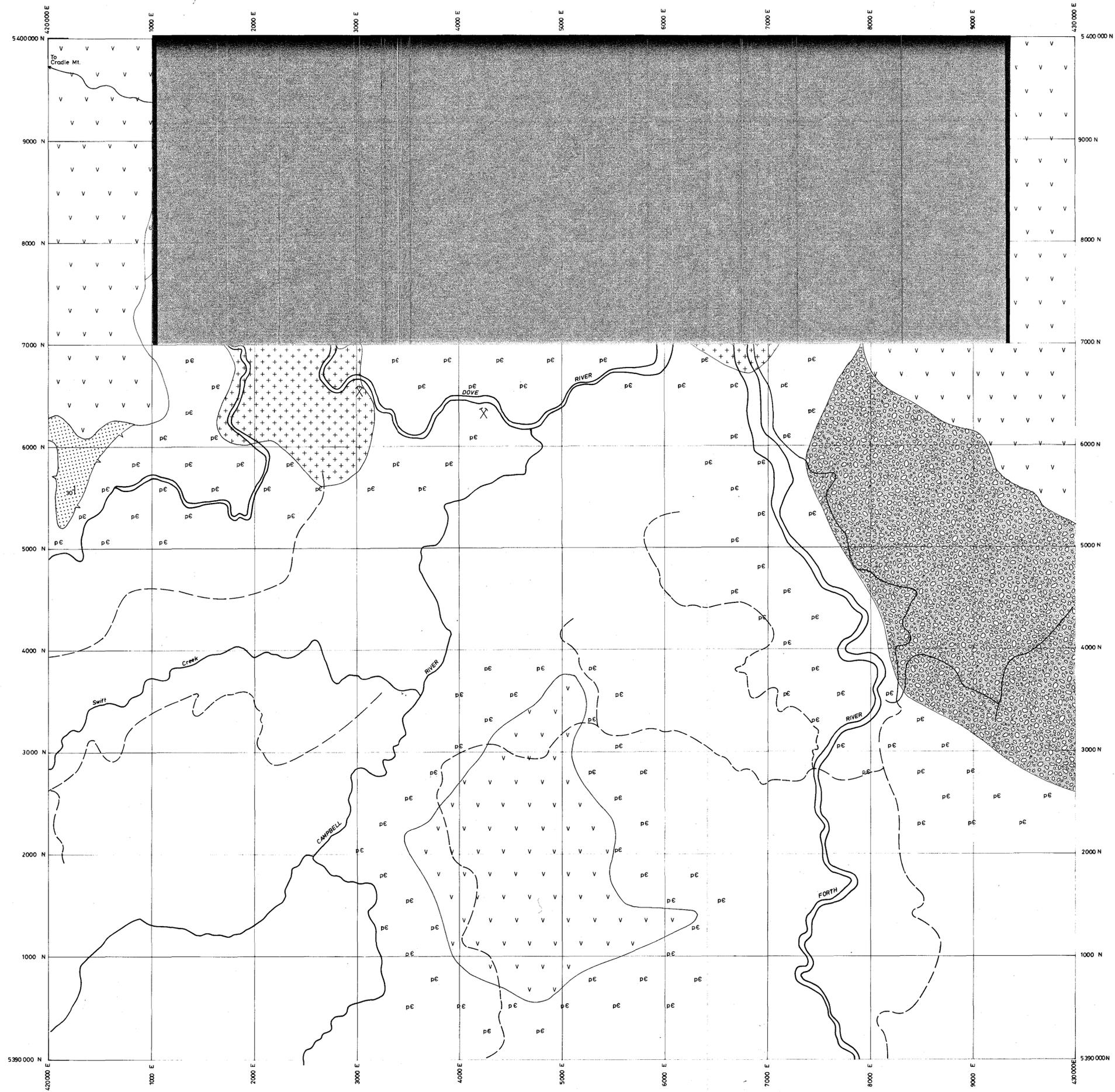
1636

Scale 1:20 000



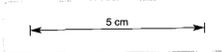
83-1999

FIG. No.	REPORT No.
ENCL. No.	DRG. No. D/MZ01/129
DATE 12-8-81	AUTHOR W.D. SMYTH
DRAWN H.L.H.	OFFICE DEVONPORT

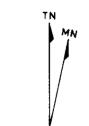
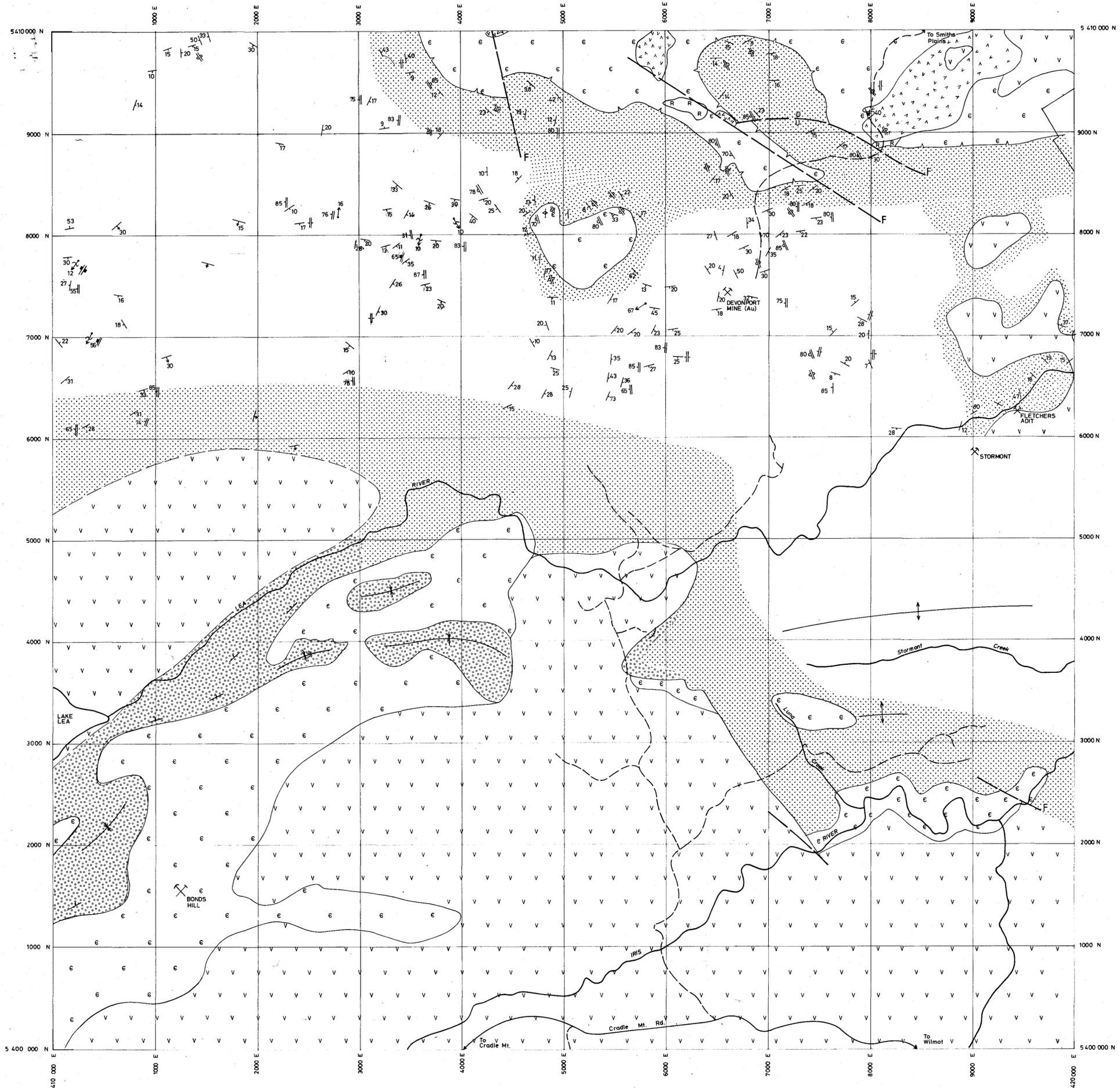


552031

The Shell Company of Australia Limited METALS DIVISION	
E.L. 7/74 MOINA CADASTRAL SHEET 4239	
Scale 1:20 000 1637	
FIG. No.	REPORT No.
ENCL. No.	DRG. No. D/MZ01/301
DATE	AUTHOR W.D. SMYTH
DRAWN H.L.H.	OFFICE DEVONPORT



83-1999



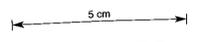
552032

The Shell Company of Australia Limited
 METALS DIVISION
 E.L. 7/74 MOINA
 CADASTRAL SHEET 4140

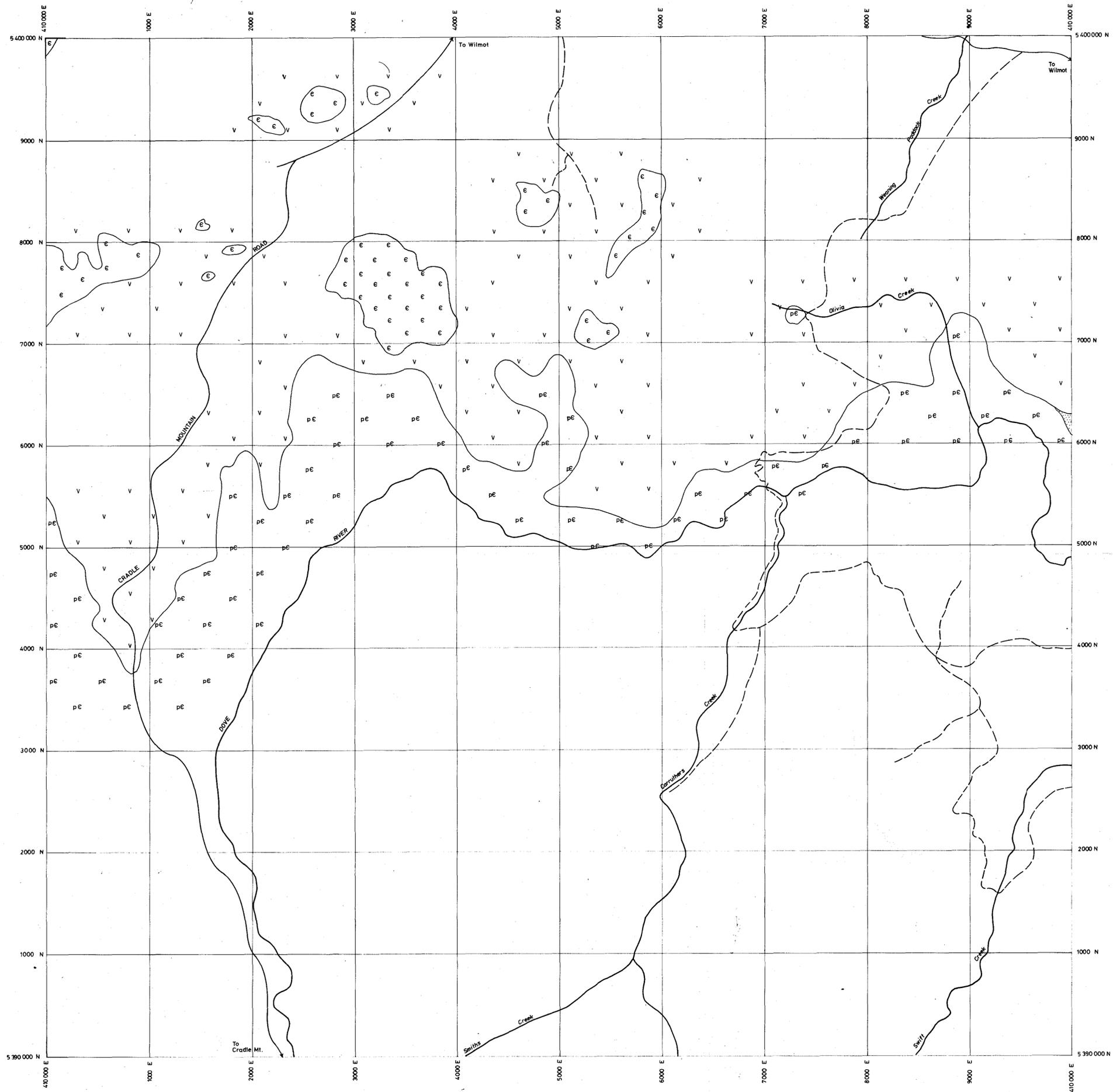
1638

Scale 1:20 000

FIG. No.	REPORT No.
ENCL. No.	DRG. No. D/M201/299
DATE	AUTHOR W.D. SMYTH.
DRAWN H.L.H.	OFFICE DEVONPORT

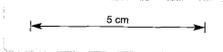


83-1999



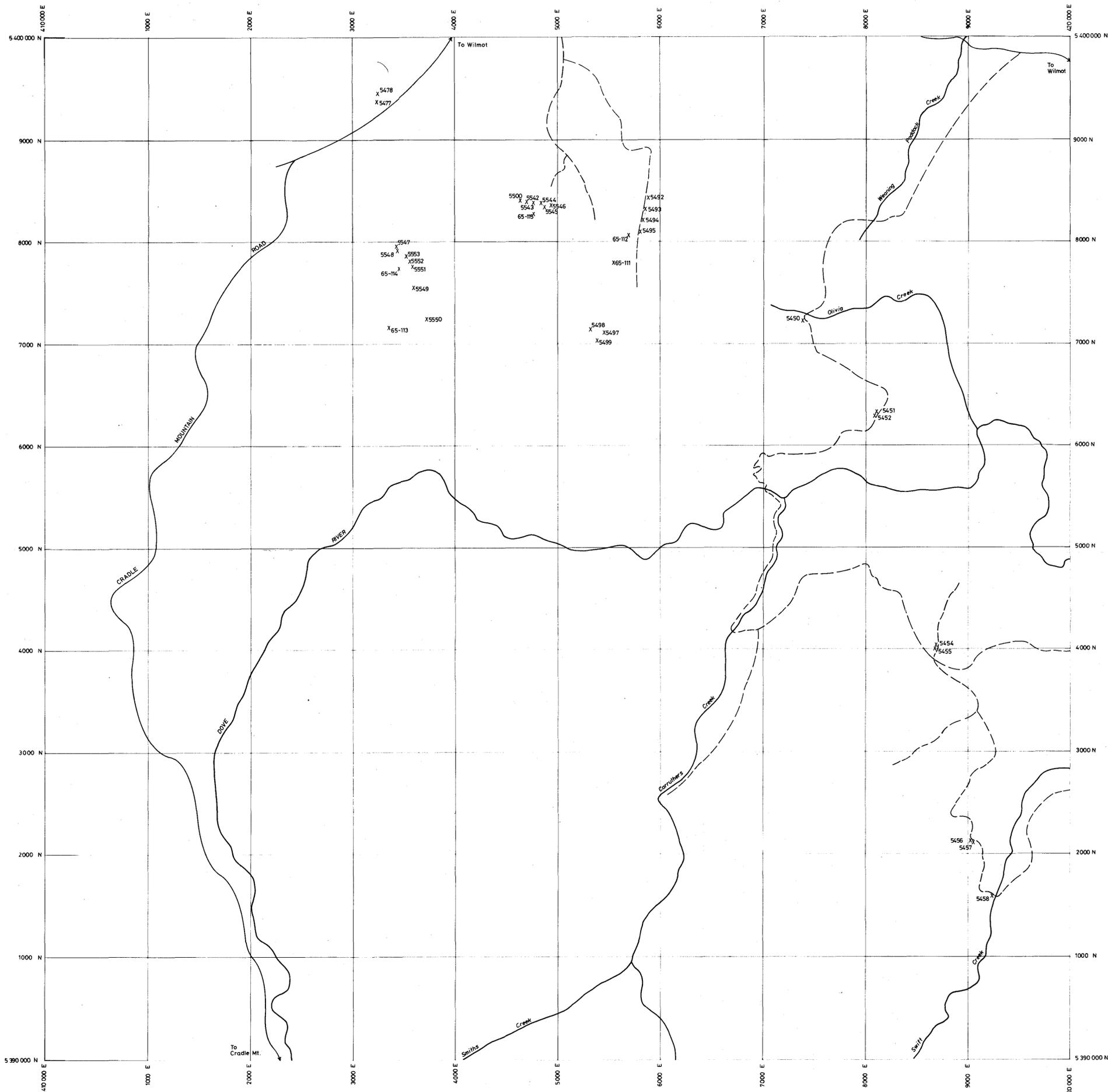
552033

The Shell Company of Australia Limited METALS DIVISION	
E.L. 7/74 MOINA CADASTRAL SHEET 4139	
Scale 1:20 000	
FIG. No.	REPORT No.
ENCL. No.	DRG. No. D/M201/300
DATE	AUTHOR W.D. SMYTH.
DRAWN H.L.H.	OFFICE DEVONPORT



83-1999

1639



SAMPLE No's	RESULTS												
	Cu (4)	Pb (4)	Zn (4)	Bi (1)	Ag (4)	Mo (2)	As (10)	Ba (4)	Sn (10)	W (4)	Ni (10)	Mn (4)	Fe%
5450	110	8	48	-	-	4	7	620	-	-	-	-	-
5451	22	40	18	4	-	260	85	350	46	35	-	-	-
5452	48	8	85	-	-	6	20	610	8	15	-	-	-
5454	16	8	20	-	-	4	4	40	4	-	-	-	-
5455	55	16	60	-	-	4	30	660	4	-	-	-	-
5456	30	36	85	-	-	6	2	780	4	10	-	-	-
5457	24	12	30	-	-	4	-	45	4	-	-	-	-
5458	50	8	12	-	-	12	7	520	4	-	-	-	-
5477	14	80	150	-	-	-	-	-	-	-	-	230	0.85
5478	32	120	100	-	-	-	-	-	-	-	-	450	2.10
5492	12	10	16	4	12	-	-	-	-	-	-	-	10
5493	44	8	55	10	6	-	-	-	-	-	-	-	22
5494	28	6	32	14	8	-	-	-	-	-	-	-	20
5495	4	6	16	6	6	-	-	-	-	-	-	-	6
5497	32	12	14	6	6	-	-	-	-	-	-	-	22
5498	42	4	12	6	6	-	-	-	-	-	-	-	20
5499	48	4	8	6	4	-	-	-	-	-	-	-	20
5500	75	28	30	30	4	-	-	-	-	-	-	-	16
5542	8	8	24	6	4	-	-	-	-	-	-	-	28
5543	6	12	55	10	4	-	-	-	-	-	-	-	45
5544	14	10	6	14	4	-	-	-	-	-	-	-	16
5545	16	16	38	14	4	-	-	-	-	-	-	-	20
5546	4	8	24	-	-	-	-	-	-	-	-	-	24
5547	10	4	6	-	-	-	-	-	-	-	-	-	18
5548	16	4	4	-	-	-	-	-	-	-	-	-	6
5549	6	4	6	-	4	-	-	-	-	-	-	-	6
5550	24	6	8	-	-	-	-	-	-	-	-	-	6
5551	8	-	6	-	-	-	-	-	-	-	-	-	10
5552	14	8	8	-	-	-	-	-	-	-	-	-	10
5553	135	8	18	8	4	-	-	-	-	-	-	-	10

65-111 etc. Mines Dept. petrology

Comlabs - Method of analysis :
 Cu, Pb, Zn, Bi, Ni = AAS 1
 Fe, Mn = AAS 2
 Ag, Mo = AAS 3
 As, Ba, Sn, W = XRF 1

Analyses in ppm.
 Detection limit = (?)



552034

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 METALS DIVISION

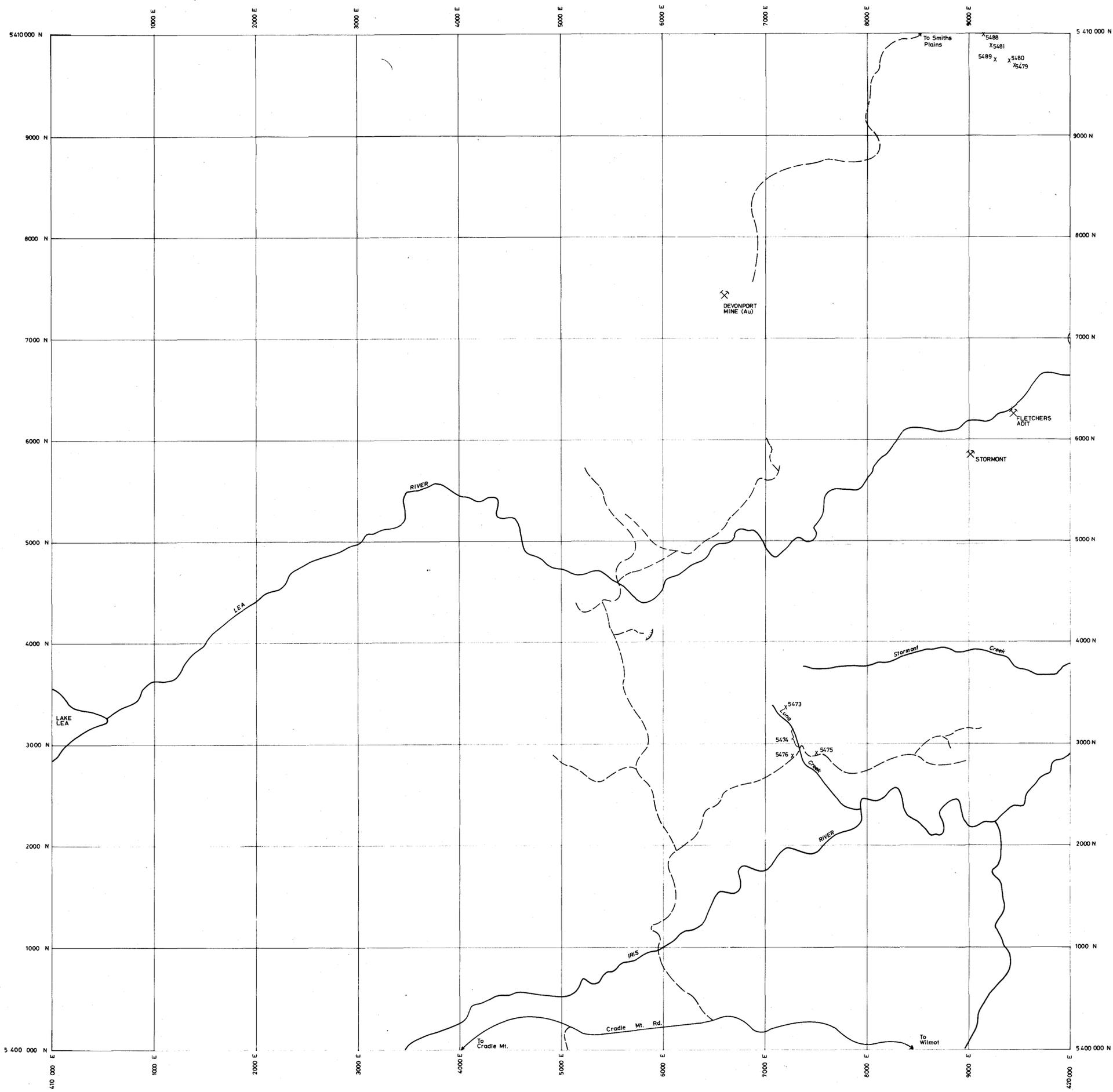
E.L. 77/74 MOINA
 CADASTRAL SHEET 4139
 REGIONAL SAMPLING

Scale 1:20 000

FIG. No.	REPORT No.
ENCL. No.	DRG. No. D/M201/246
DATE 22-6-82	AUTHOR W.D. SMYTH
DRAWN H.L.H.	OFFICE DEVONPORT

5 cm

83-1999



Comiabs - Analyses in p.p.m.
 Cu, Pb, Zn, Ni, Bi, Cd, AAS 1
 Fe, Mn AAS 2

Sample No's	Results							
	Cu	Pb	Zn	Ni	Bi	Cd	Fe	Mn
5473	20	50	48	8	<4	<1	2.4%	50
5474	6	<4	4	<4	<4	<1	0.2%	12
5475	20	10	50	42	<4	<1	2.8%	105
5476	12	80	8	<4	<4	<1	0.2%	12

552035

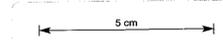
The Shell Company of Australia Limited
 METALS DIVISION

E.L. 7/74 MOINA
 CADASTRAL SHEET 4140
 REGIONAL SAMPLING

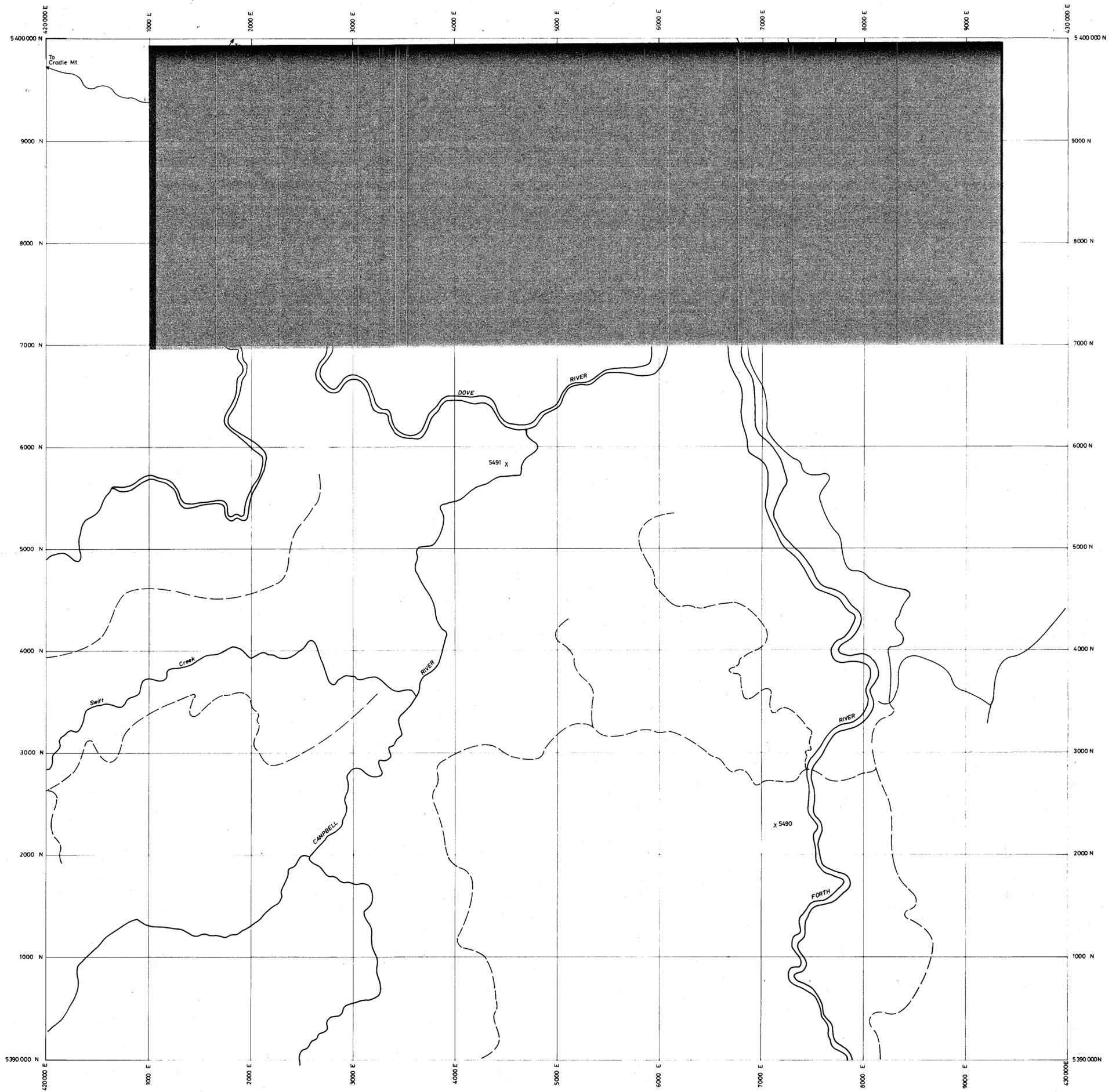
1641

Scale 1:20 000

FIG. No.	REPORT No.
ENCL. No.	DRG. No. D/MZ01/244
DATE 22-6-82	AUTHOR W.D. SMYTH
DRAWN H.L.H.	OFFICE DEVONPORT



83-1999



Sample No's	Results										
	Cu	Pb	Zn	Bi	Ag	Mo	As	Ba	Sn	W	
5453	8	8	6	<4	<1	6	16	45	<4	10	
5467	4	<4	4	<4	1	4	3	<10	4	10	
5490	44	20	24	4		14					
5491	90	18	50	6		12					
5695	55	38	26	<4			2	4250	<4	<10	
5696	6	55	8	<4			4	490	<4	10	
5697	6	46	50	<4			5	380	4	<10	
5697 B	510	1000	610	<4			30	850	<4	10	
5698	140	8	28	<4							
5699	6	<4	8	<4			2	430	14	35	
5700	30	<4	20	<4			3	1150	6	10	

Cemlabs - Analyses in ppm.
 Cu, Pb, Zn, Bi AAS 1
 Ag, Mo, AAS 3
 As, Ba, Sn, W XRF 1



552036

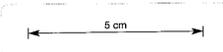
The Shell Company of Australia Limited
 METALS DIVISION

E.L. 7/74 MOINA
 CADASTRAL SHEET 4239
 REGIONAL SAMPLING

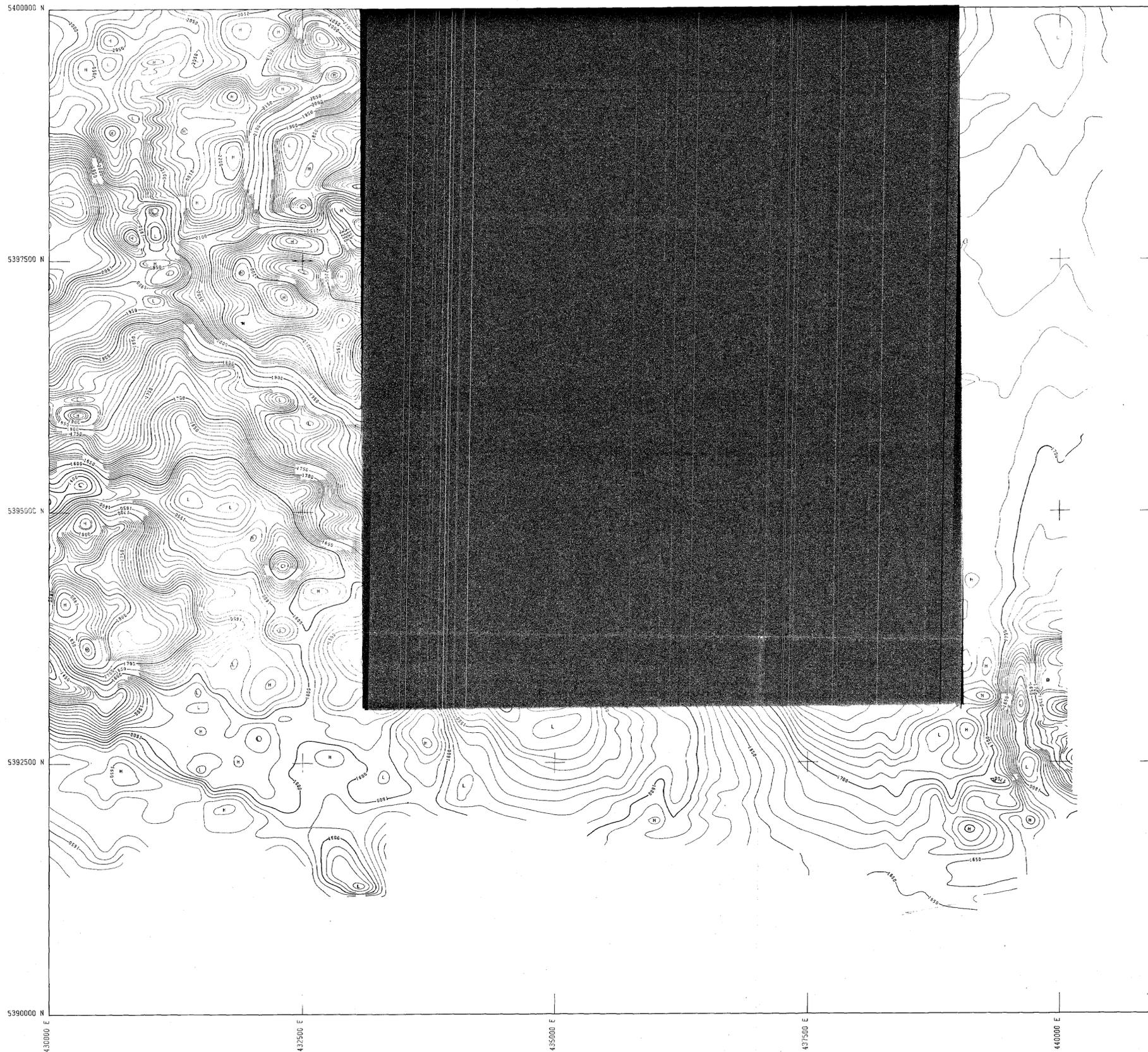
1642

Scale 1:20 000

FIG. No.	REPORT No.
ENCL. No.	DRG. No. D/MZ01/245
DATE 22-6-82	AUTHOR W.D. SMYTH
DRAWN H.L.H.	OFFICE DEVONPORT



83-1999

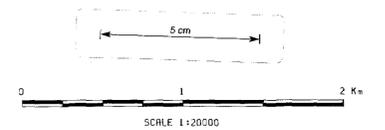


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
 SPECTROMETER : EXPLOANTUM DCAS, VOLUME 1024 cu in
 DATA RECORDING : ALL DIGITAL TO MAGNETIC TAPE, ANALOGUE ON ACM-6
 DATA RECORDING INTERVAL : 1.0 SEC., APPROX 36M LINEAR SAMPLING
 AT MEAN GROUND SPEED OF 60 KNOTS
 FLIGHT PATH RECORD : HULCHER 35mm TRACKING CAMERA
 DETECTOR : 17MM IN CLEARANCE : SPECTROMETER IN AIRCRAFT AT 100 metres MTC
 MAGNETOMETER SENSOR IN TOWED BIRO
 CABLE LENGTH 30 metres
 NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
 FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED A69 PHOTOGRAPHY AT 1:20000
 AND 1:30000

PROCESSING SPECIFICATIONS

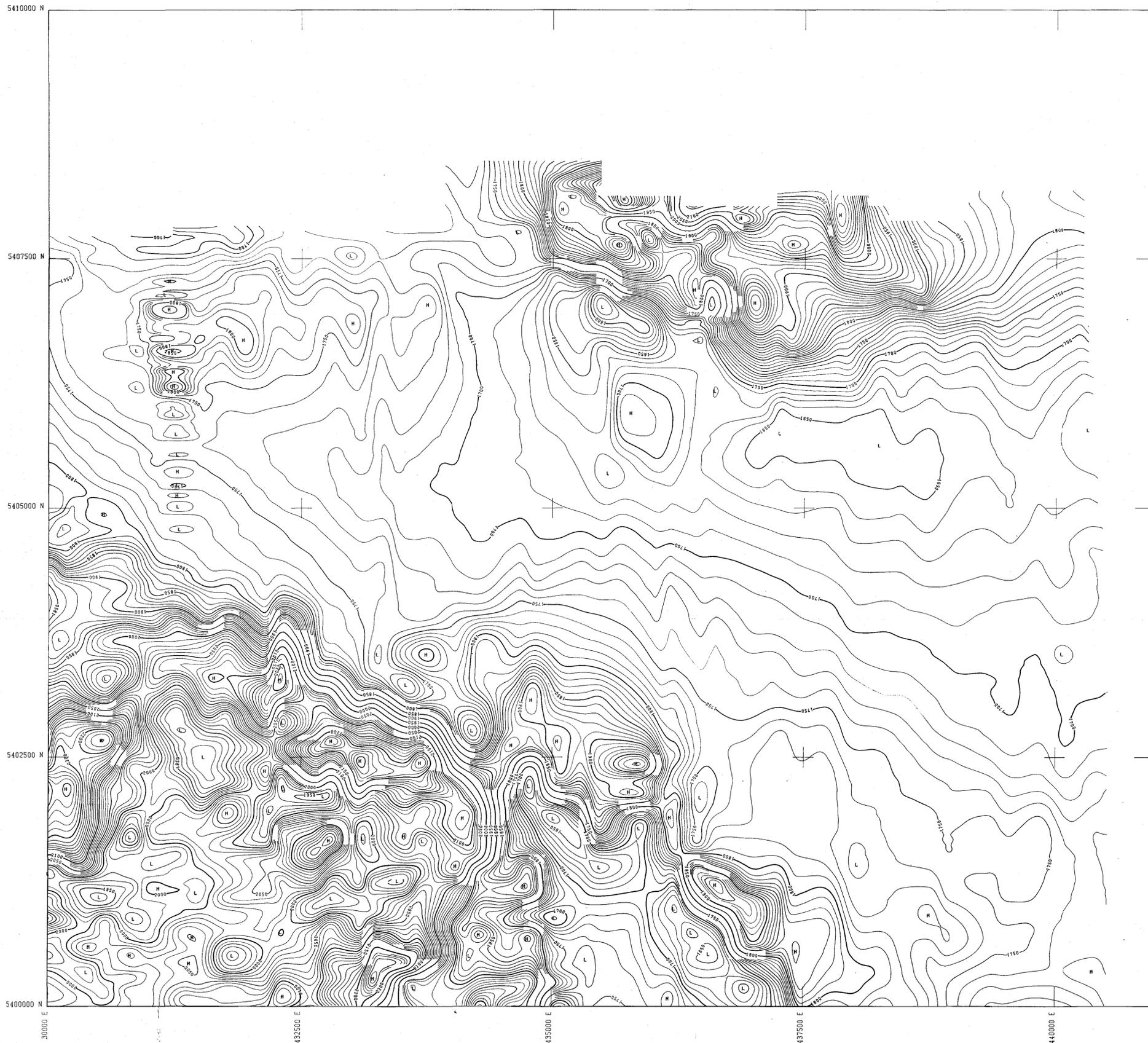
IGRF : REMOVED, DATUM 2000 NT ADDED
 RADIO-METRIC CORRECTIONS : COMPTON
 BACKGROUND
 ALTITUDE
 GRID MESH : 50m by 50m
 CONTOUR INTERVAL : 10 nT
 HORIZONTAL SCALE : 1 : 20000
 SHEET 4339
 GRID NOTATION REFERS TO AUSTRALIAN MAP GRID



552037

FLOWN BY GEOMETRICS INT CORP
 JOB NO : 9221, FLOWN : MARCH - APRIL 1980
 COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

SHELL MINERALS (AUST) 83-1999	
MOINA - HOUSTOP TASMANIA RESIDUAL MAGNETIC CONTOURS SHEET 20/4339 1643	
PROJ NO. MZ 01 / 1054	DATE : 21-OCT-80

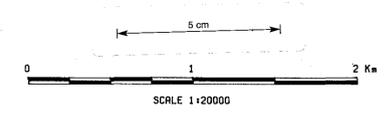


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
 SPECTROMETER : EXPLORANIUM DCRS, VOLUME 1024 cu in
 DATA RECORDING : ALL DIGITAL TO MAGNETIC TAPE, ANALOGUE ON ACM-6
 DATA RECORDING INTERVAL : 1.0 SEC., APPROX 36M LINEAR SAMPLING
 AT MEAN GROUND SPEED OF 60 KNOTS
 FLIGHT PATH RECORD : HULCHER 35mm TRACKING CAMERA
 DETECTOR TERRAIN CLEARANCE : SPECTROMETER IN AIRCRAFT AT 100 metres MTC
 MAGNETOMETER SENSOR IN TOWED BIRD
 CABLE LENGTH 30 metres
 NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
 FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED ACM PHOTOGRAPHY AT 1:20000
 AND 1:30000

PROCESSING SPECIFICATIONS

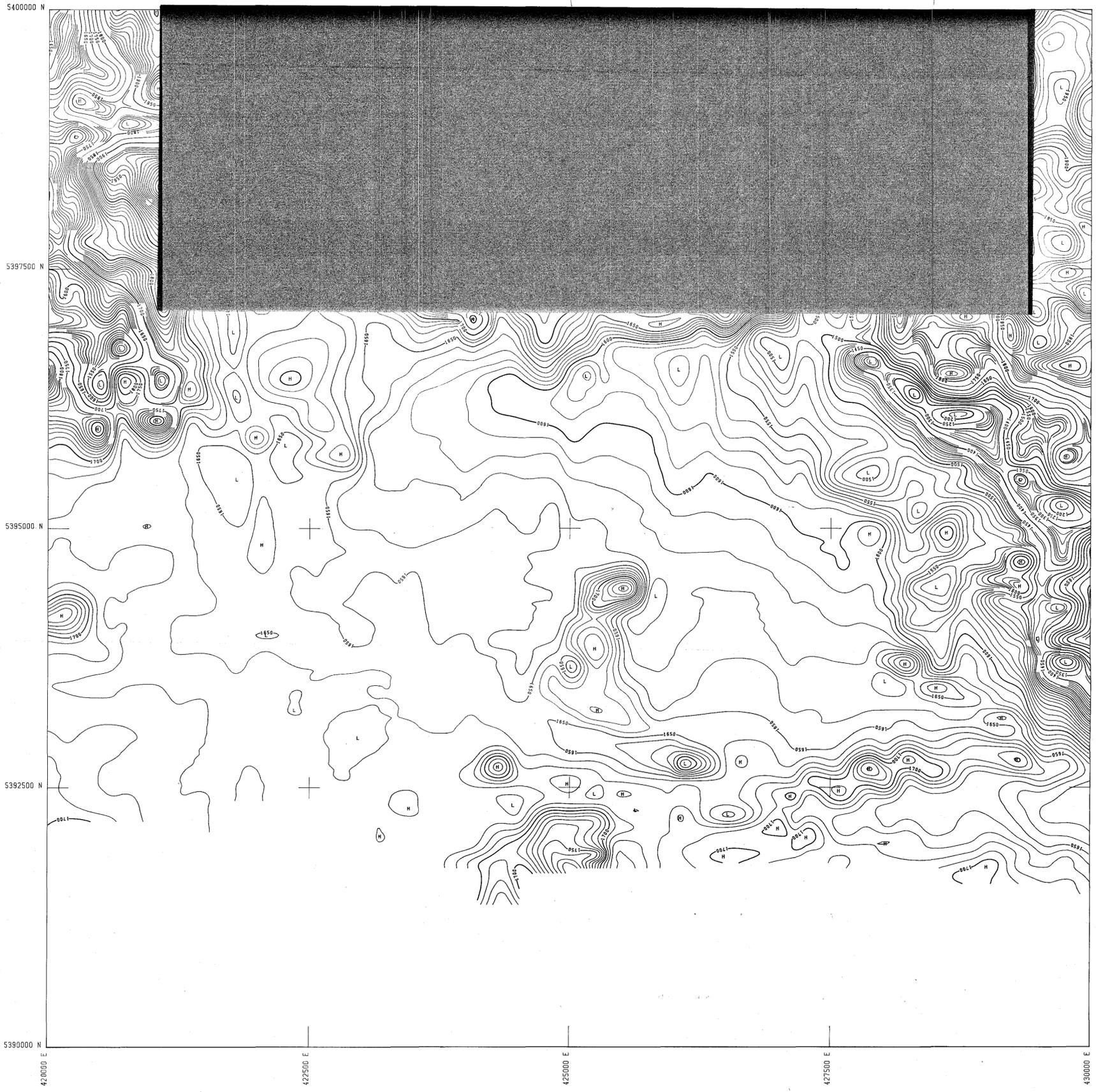
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 RADIOMETRIC CORRECTIONS : COMPTON
 BACKGROUND
 ALTITUDE
 GRID MESH : 50m by 50m
 CONTOUR INTERVAL : 10 nT
 HORIZONTAL SCALE 1 : 20000
 SHEET 4340
 GRID NOTATION REFERS TO AUSTRALIAN MAP GRID



552038

FLOWN BY GEOMETRICS INT CORP
 JOB NO : 9221, FLOWN : MARCH - APRIL 1980
 COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

SHELL MINERALS (AUST) 33-1999	
MOINA - HOUSTOP TASMANIA RESIDUAL MAGNETIC CONTOURS SHEET 20/4340 1644	
PROJ NO.	DATE:



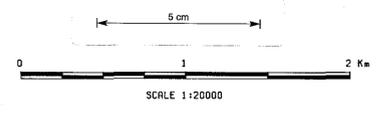
AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
 SPECTROMETER : EXPLORAMIUM DCRS, VOLUME 1024 cu in
 DATA RECORDING : ALL DIGITAL TO MAGNETIC TAPE, ANALOGUE ON ACM-6
 DATA RECORDING INTERVAL : 1.0 SEC., APPROX 36M LINEAR SAMPLING
 AT MEAN GROUND SPEED OF 60 KNOTS
 FLIGHT PATH RECORD : HULCHER 35mm TRACKING CAMERA
 DETECTOR TERRAIN CLEARANCE : SPECTROMETER IN AIRCRAFT AT 100 metres MTC
 MAGNETOMETER SENSOR IN TOWED BIRD
 CABLE LENGTH 30 metres
 NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
 FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED A99 PHOTOGRAPHY AT 1:20000
 AND 1:30000

PROCESSING SPECIFICATIONS

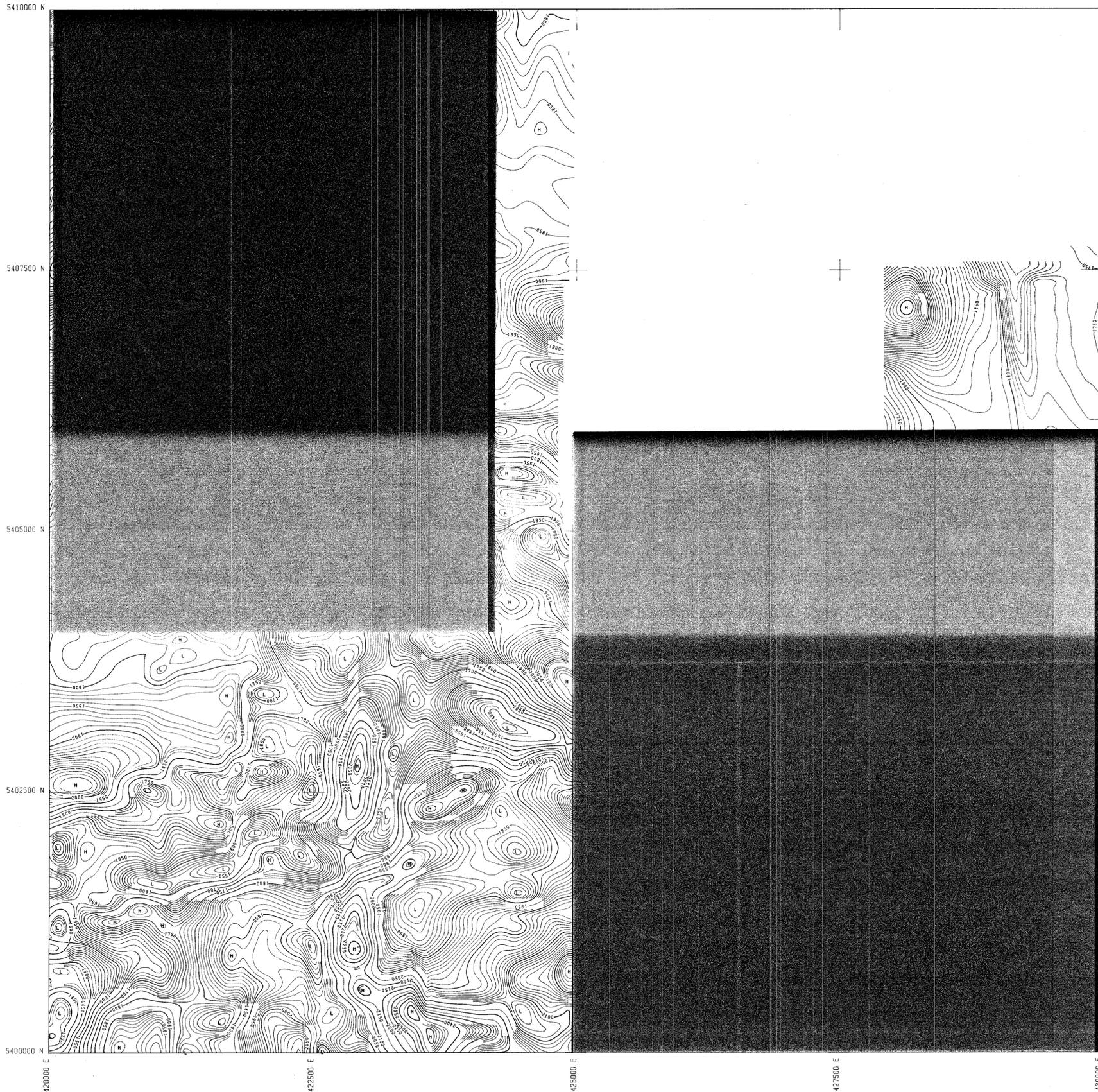
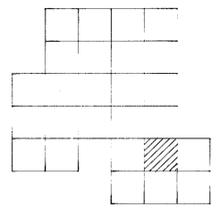
IGRF : REMOVED, DATUM 2000 NT ADDED
 RADIOMETRIC CORRECTIONS : COMPTON
 BACKGROUND
 ALTITUDE
 GRID MESH : 50m by 50m
 CONTOUR INTERVAL : 10 nT
 HORIZONTAL SCALE 1 : 20000
 SHEET 4239
 GRID NOTATION REFERS TO AUSTRALIAN MAP GRID

552039



FLOWN BY GEOMETRICS INT CORP
 JOB NO : 9221, FLOWN : MARCH - APRIL 1980
 83-1999 COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

SHELL MINERALS (AUST)	
MOINA - HOUSETOP TASMANIA RESIDUAL MAGNETIC CONTOURS SHEET 20/4239	
1645	
PROJ NO. mzo/oso	DATE: 21-OCT-80

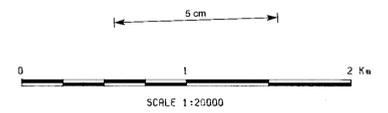


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
SPECTROMETER : EXPLORANUM DCRS, VOLUME 1024 cu in
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DETECTOR TERRAIN CLEARANCE :SPECTROMETER IN AIRCRAFT AT 100 metres MTC
MAGNETOMETER SENSOR IN TOWED BIRD
CABLE LENGTH 30 metres
NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED AC9 PHOTOGRAPHY AT 1:20000
AND 1:30000

PROCESSING SPECIFICATIONS

IGRF : REMOVED, DATUM 2000 NT ADDED
RADIOMETRIC CORRECTIONS : COMPTON
BACKGROUND
ALTITUDE
GRID MESH : 50m by 50m
CONTOUR INTERVAL : 10 nT
HORIZONTAL SCALE 1 : 20000
SHEET 4240
GRID NOTATION REFERS TO AUSTRALIAN MAP GRID



552040

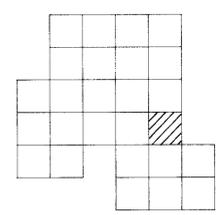
FLOWN BY GEOMETRICS INT CORP
JOB NO : 9221, FLOWN : MARCH - APRIL 1980
COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

83-1999

SHELL MINERALS (AUST)

MOINA - HOUSTOP TASMANIA
RESIDUAL MAGNETIC CONTOURS
SHEET 20/4240

1646

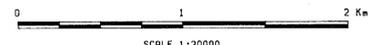


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
 SPECTROMETER : EXPLORANIUM DCRS, VOLUME 1024 cu in
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 MAGNETOMETER SENSOR IN TOWED BIRD
 CABLE LENGTH 30 metres
 NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
 FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED RC9 PHOTOGRAPHY AT 1:20000
 AND 1:30000

PROCESSING SPECIFICATIONS

IGRF : REMOVED, DATUM 2000 NT ADDED
 RADIOMETRIC CORRECTIONS : COMPTON
 BACKGROUND
 ALTITUDE
 GRID MESH : 50m by 50m
 CONTOUR INTERVAL : 10 nT
 HORIZONTAL SCALE 1 : 20000
 SHEET 4241
 GRID NOTATION REFERS TO AUSTRALIAN MAP GRID



SCALE 1:20000

552041

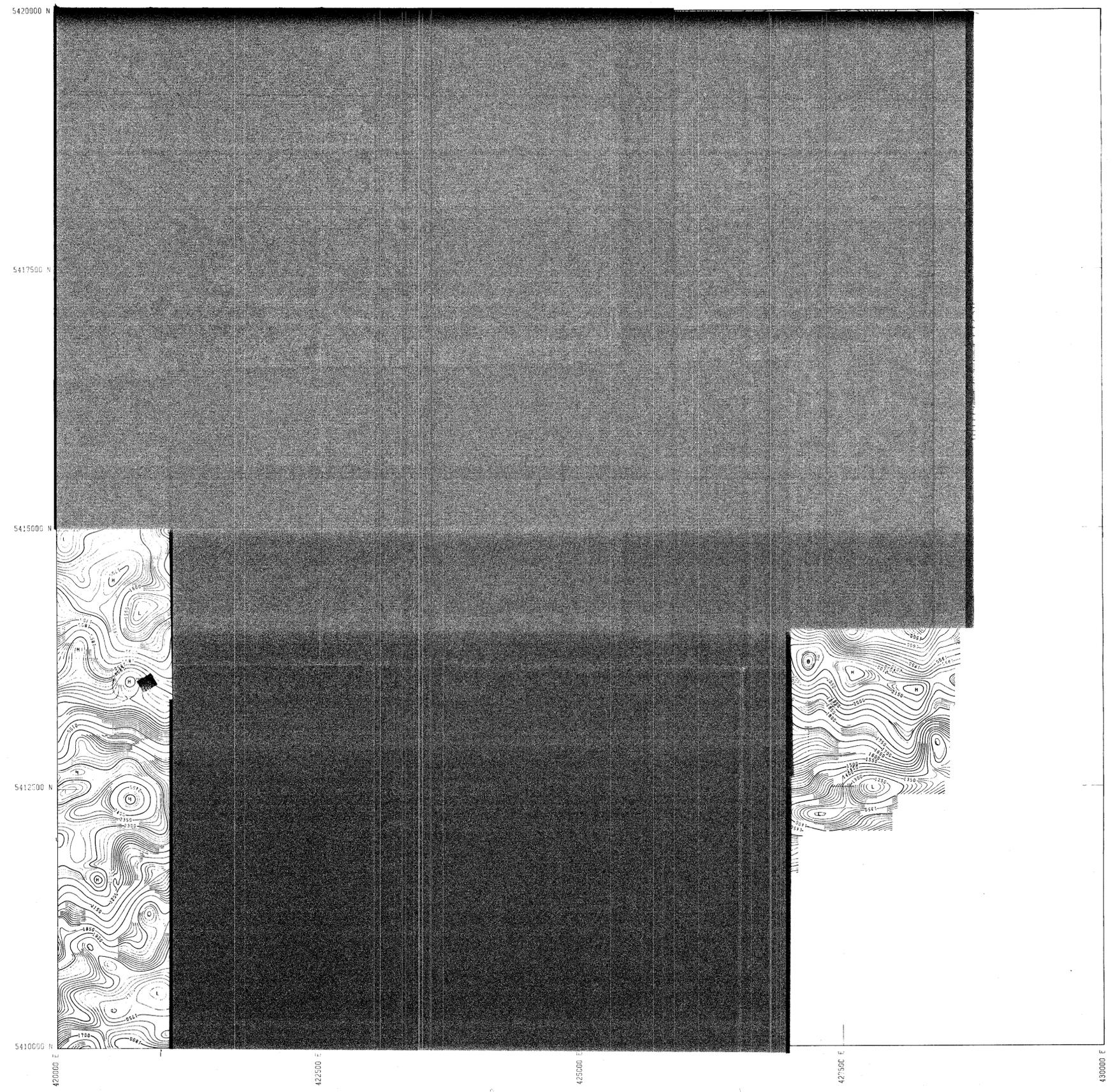
FLOWN BY GEOMETRICS INT CORP
 JOB NO : 9221, FLOWN : MARCH - APRIL 1980
 COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

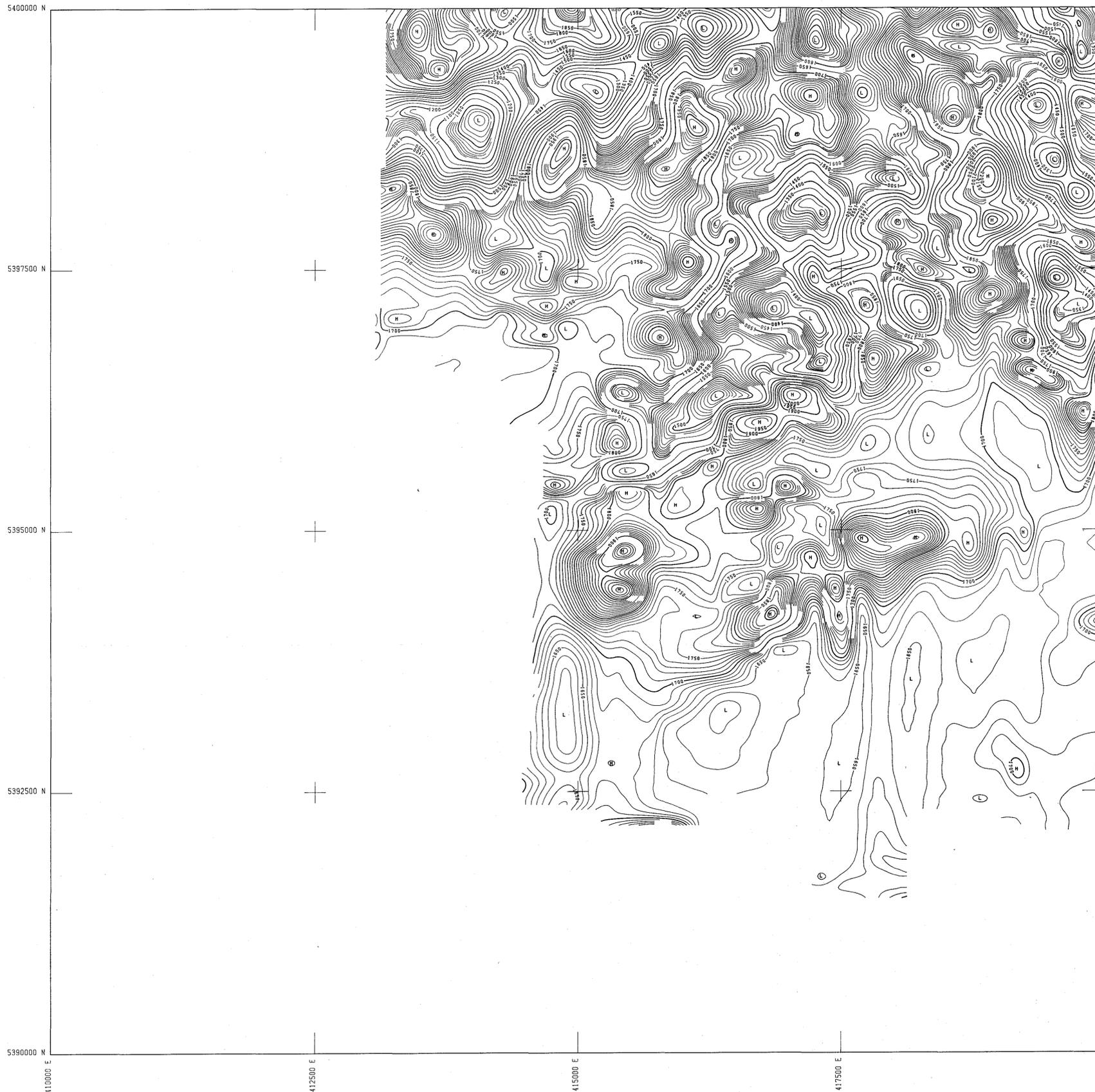
83-1999

SHELL MINERALS (AUST)

MOINA - HOUSETOP TASMANIA
 RESIDUAL MAGNETIC CONTOURS
 SHEET 20/4241

1647



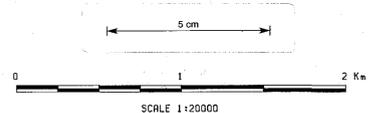


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
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 NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
 FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED RC9 PHOTOGRAPHY AT 1:20000
 AND 1:30000

PROCESSING SPECIFICATIONS

IGRF : REMOVED, DATUM 2000 NT ADDED
 RADIO-METRIC CORRECTIONS : COMPTON
 BACKGROUND
 ALTITUDE
 GRID MESH : 50m by 50m
 CONTOUR INTERVAL : 10 nT
 HORIZONTAL SCALE 1 : 20000
 SHEET 4139
 GRID NOTATION REFERS TO AUSTRALIAN MAP GRID



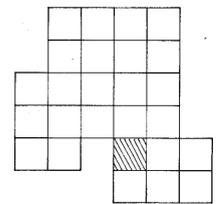
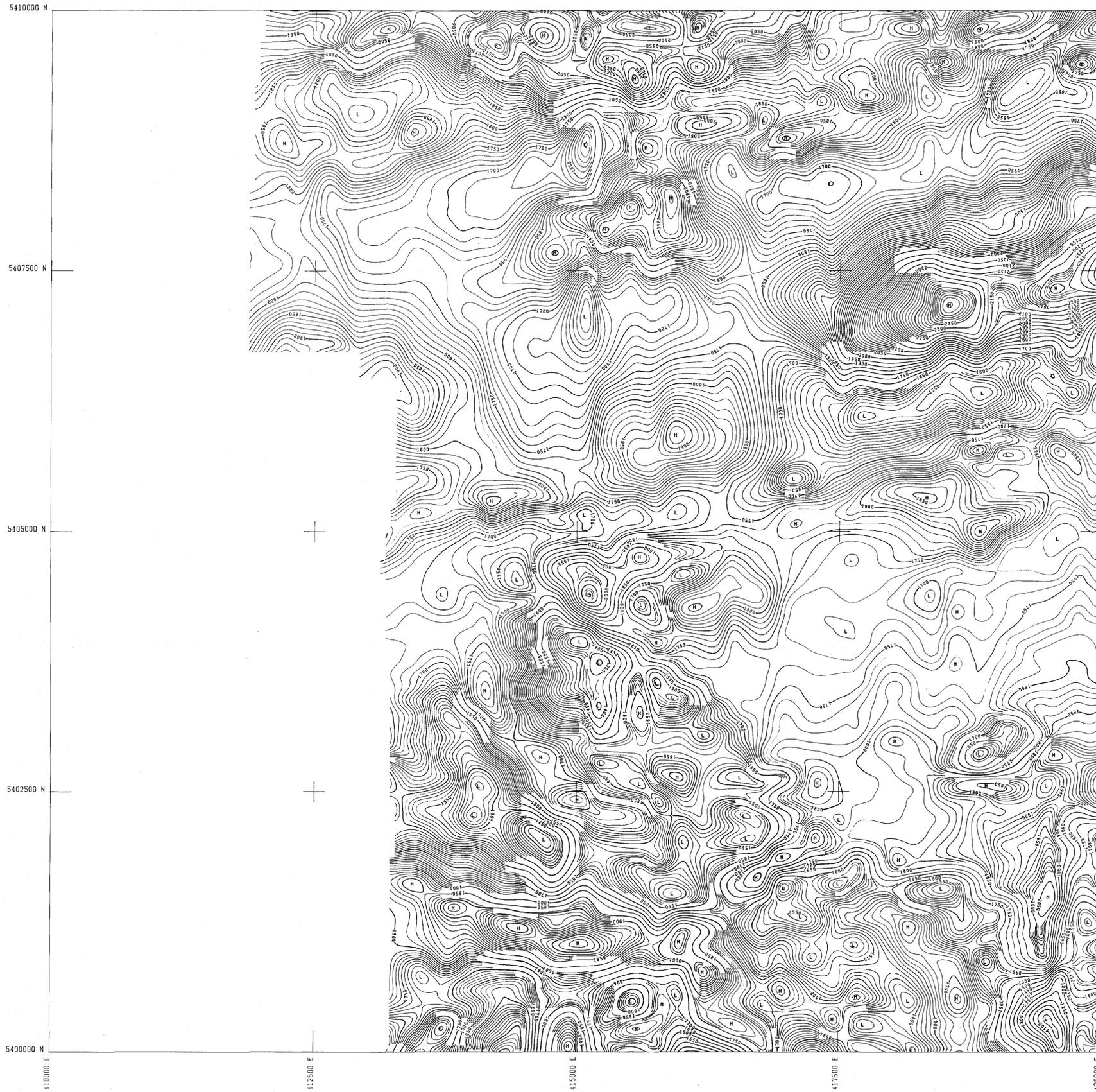
552042

FLOWN BY GEOMETRICS INT CORP
 JOB NO : 9221, FLOWN : MARCH - APRIL 1980
 COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

33-1999

SHELL MINERALS (AUST)

MOINA - HOUSETOP TASMANIA
 RESIDUAL MAGNETIC CONTOURS
 SHEET 20/4139 1648

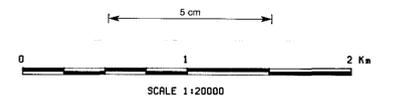


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
 SPECTROMETER : EXPLORANIUM DCAS, VOLUME 1024 cu in
 DATA RECORDING : ALL DIGITAL TO MAGNETIC TAPE, ANALOGUE ON ACM-6
 DATA RECORDING INTERVAL : 1.0 SEC., APPROX 36M LINEAR SAMPLING
 AT MEAN GROUND SPEED OF 60 KNOTS
 FLIGHT PATH RECORD : HULCHER 35mm TRACKING CAMERA
 DETECTOR TERRAIN CLEARANCE :SPECTROMETER IN AIRCRAFT AT 100 metres MTC
 MAGNETOMETER SENSOR IN TOWED BIRD
 CABLE LENGTH 30 metres
 NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
 FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED RC9 PHOTOGRAPHY AT 1:20000
 AND 1:30000

PROCESSING SPECIFICATIONS

IGRF : REMOVED, DATUM 2000 NT ADDED
 RADIOMETRIC CORRECTIONS : COMPTON
 BACKGROUND
 ALTITUDE
 GRID MESH :50m by 50m
 CONTOUR INTERVAL : 10 nT
 HORIZONTAL SCALE 1 : 20000
 SHEET 4140
 GRID NOTATION REFERS TO AUSTRALIAN MAP GRID

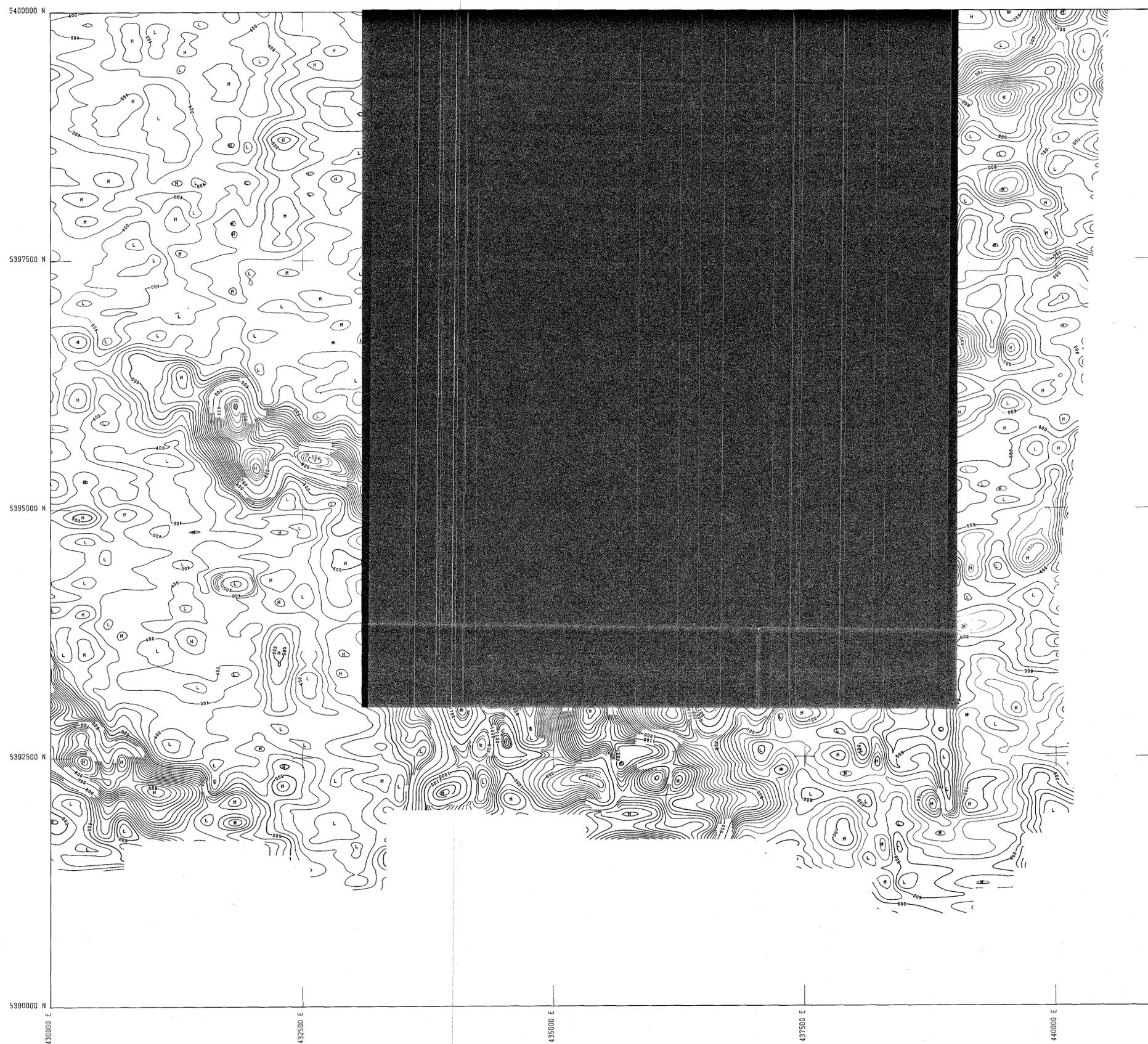


552043

FLOWN BY GEOMETRICS INT CORP
 JOB NO : 9221, FLOWN : MARCH - APRIL 1980
 83-1999 COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

SHELL MINERALS (AUST)

MOINA - HOUSETOP TASMANIA
 RESIDUAL MAGNETIC CONTOURS
 SHEET 20/4140 1649

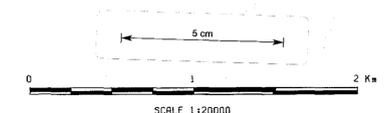


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
 SPECTROMETER : EXPLORANUM DCAS, VOLUME 1024 cu in
 DATA RECORDING : ALL DIGITAL TO MAGNETIC TAPE, ANALOGUE ON ACM-6
 DATA RECORDING INTERVAL : 1.0 SEC., APPROX 36M LINEAR SAMPLING
 AT MEAN GROUND SPEED OF 60 KNOTS
 FLIGHT PATH RECORD : HULCHER 35mm TRACKING CAMERA
 DETECTOR TERRAIN CLEARANCE : SPECTROMETER IN AIRCRAFT AT 100 metres TIC
 MAGNETOMETER SENSOR IN TOWED BIRD
 CABLE LENGTH 30 metres
 NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
 FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED ACS PHOTOGRAPHY AT 1:20000
 AND 1:30000

PROCESSING SPECIFICATIONS

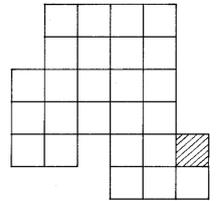
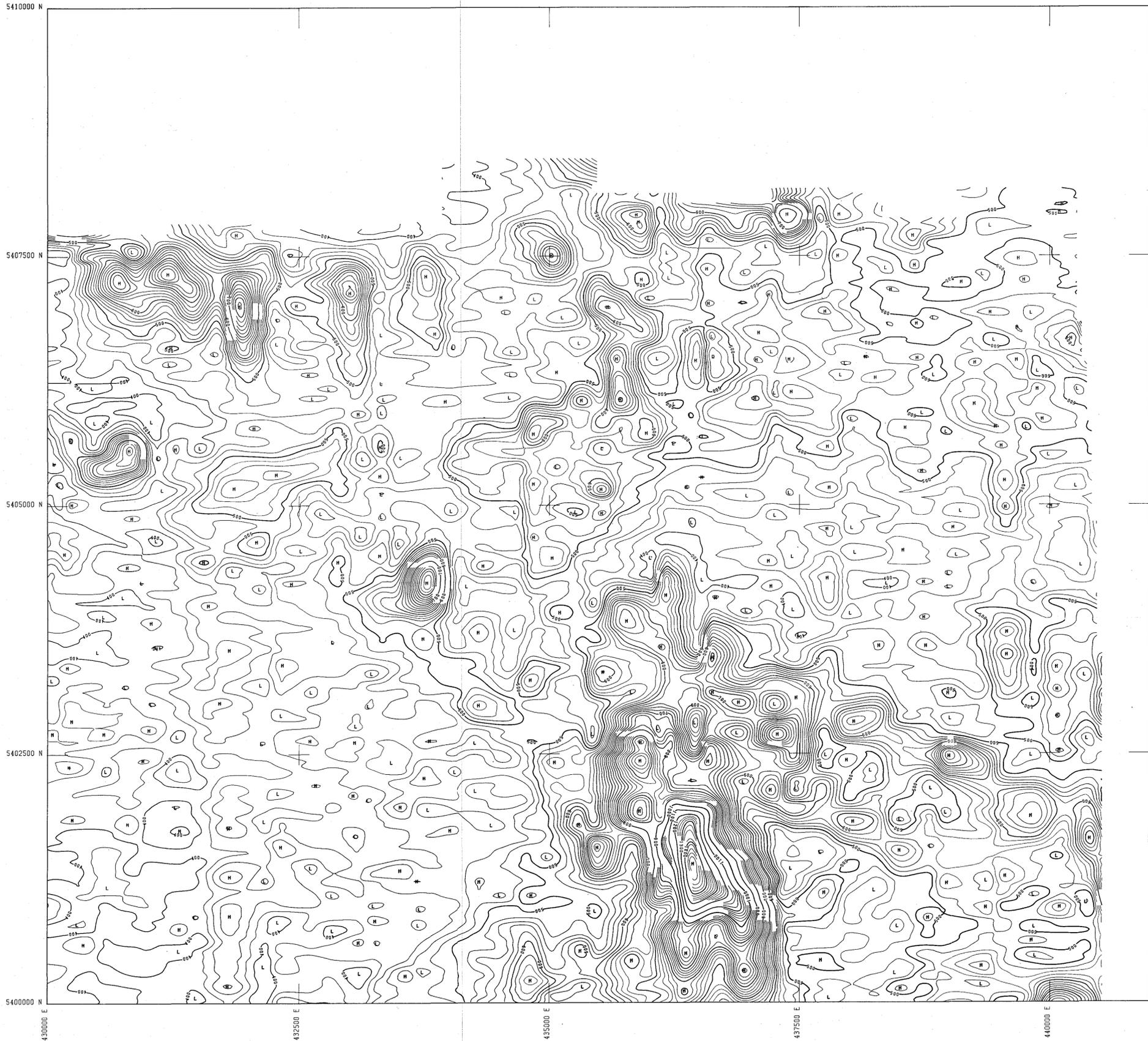
IGRF : REMOVED, DATUM 2000 NT ADDED
 RADIO-METRIC CORRECTIONS : COMPTON
 BACKGROUND ALTITUDE
 GRID MESH : 50m by 50m
 CONTOUR INTERVAL : 20 c.p.s.
 HORIZONTAL SCALE 1 : 20000
 SHEET 20/4339
 GRID NOTATION REFERS TO AUSTRALIAN MAP GRID



552044

FLOWN BY GEOMETRICS INT CORP
 JOB NO : 9221, FLOWN : MARCH - APRIL 1980
 COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

83-1999	
SHELL MINERALS (AUST)	
MOINA - HOUSETOP TASMANIA	
TOTAL COUNT CONTOURS	
SHEET 20/4339	
1650	
PROJ NO. MZ01 / 1055	DATE: 24-JAN-81

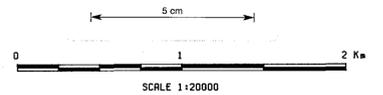


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
 SPECTROMETER : EXPLORANIUM DCRS, VOLUME 1024 cu in
 DATA RECORDING : ALL DIGITAL TO MAGNETIC TAPE, ANALOGUE ON ACM-6
 DATA RECORDING INTERVAL : 1.0 SEC., APPROX 36M LINEAR SAMPLING
 AT MEAN GROUND SPEED OF 60 KNOTS
 FLIGHT PATH RECORD : HULCHER 35mm TRACKING CAMERA
 DETECTOR TERRAIN CLEARANCE : SPECTROMETER IN AIRCRAFT AT 100 metres MTC
 MAGNETOMETER SENSOR IN TOWED BIRD
 CABLE LENGTH 30 metres
 NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
 FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED ACS PHOTOGRAPHY AT 1:20000
 AND 1:30000

PROCESSING SPECIFICATIONS

IGRF : REMOVED, DATUM 2000 NT ADDED
 RADIOMETRIC CORRECTIONS : COMPTON
 BACKGROUND
 ALTITUDE
 GRID MESH : 50m by 50m
 CONTOUR INTERVAL : 20 c.p.s.
 HORIZONTAL SCALE 1 : 20000
 SHEET 20/4340
 GRID NOTATION REFERS TO AUSTRALIAN MAP GRID



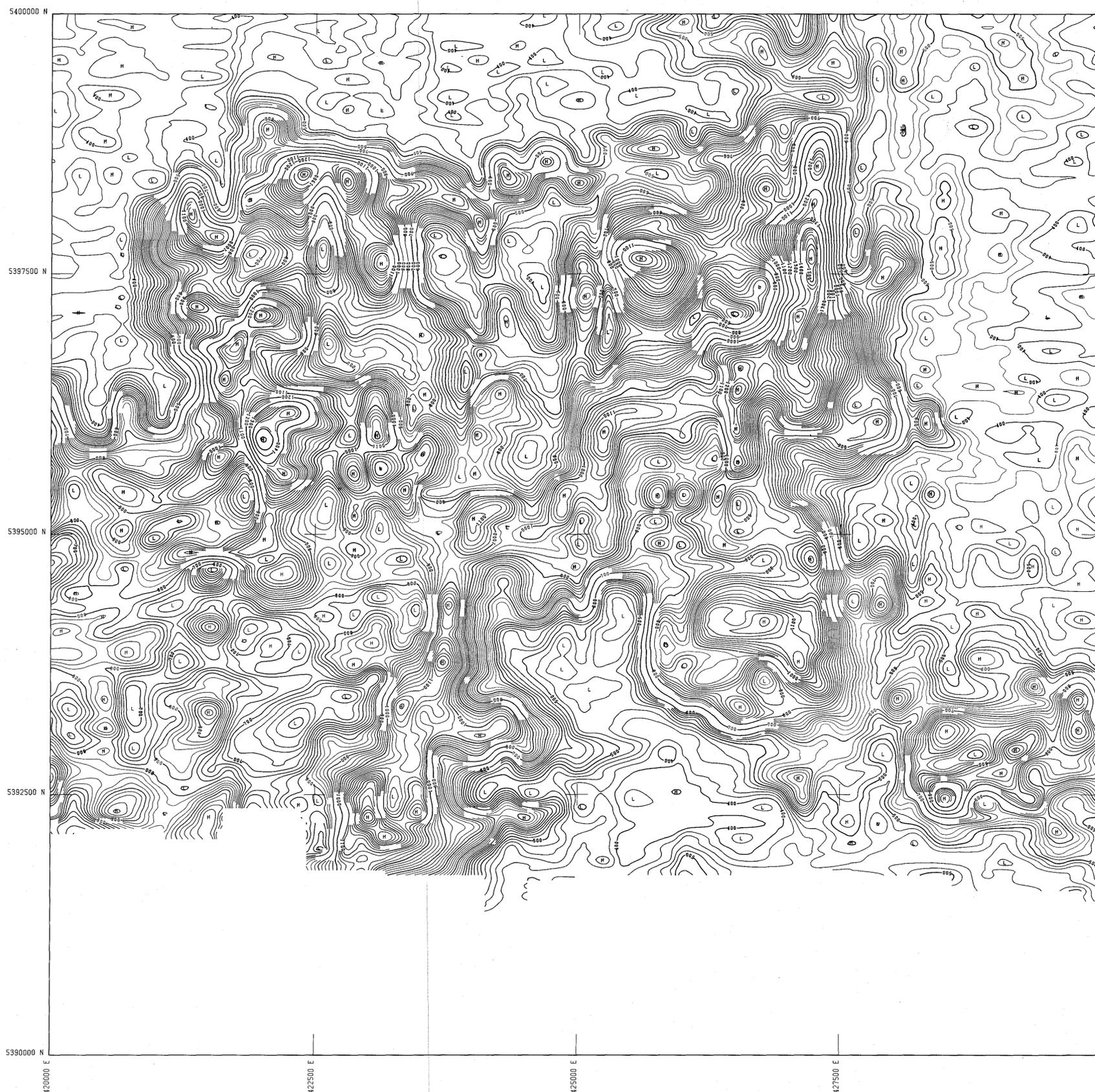
552045

FLOWN BY GEOMETRICS INT CORP
 JOB NO : 9221, FLOWN : MARCH - APRIL 1980
 COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

83-1999

SHELL MINERALS (AUST)

MOINA - HOUSETOP TASMANIA
 TOTAL COUNT CONTOURS
 SHEET 20/4340 1651

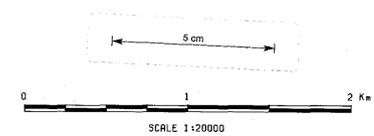


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
 SPECTROMETER : EXPLOANUM DCRS, VOLUME 1024 cu in
 DATA RECORDING : ALL DIGITAL TO MAGNETIC TAPE, ANALOGUE ON ACM-6
 DATA RECORDING INTERVAL : 1.0 SEC., APPROX 36M LINEAR SAMPLING
 AT MEAN GROUND SPEED OF 60 KNOTS
 FLIGHT PATH RECORD : HULCHER 35mm TRACKING CAMERA
 DETECTOR TERRAIN CLEARANCE : SPECTROMETER IN AIRCRAFT AT 100 metres MTC
 MAGNETOMETER SENSOR IN TOWED BIRO
 CABLE LENGTH 30 metres
 NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
 FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED AC9 PHOTOGRAPHY AT 1:20000
 AND 1:30000

PROCESSING SPECIFICATIONS

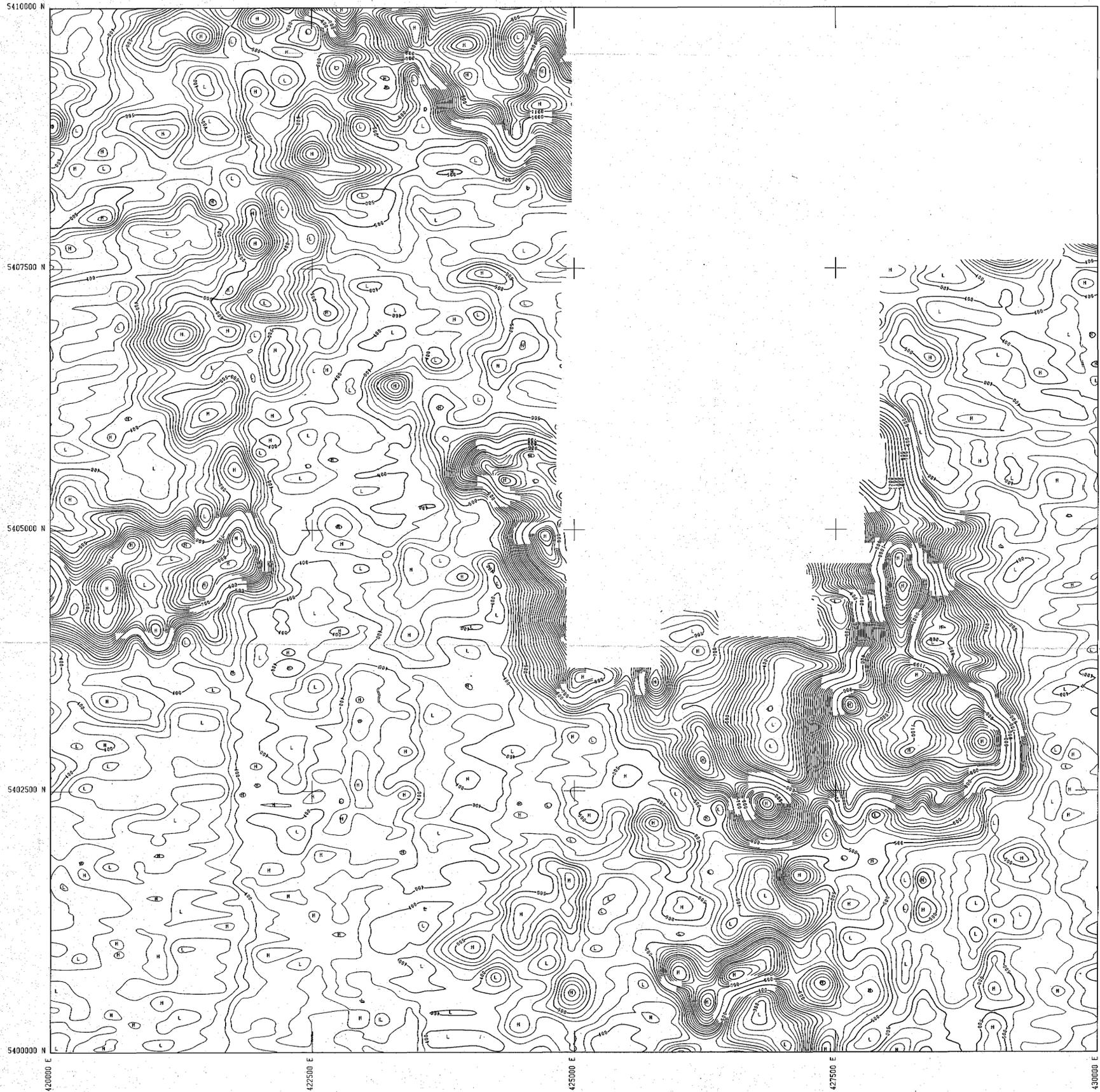
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 RADIO-METRIC CORRECTIONS : COMPTON
 BACKGROUND
 ALTITUDE
 GRID MESH : 50m by 50m
 CONTOUR INTERVAL : 20 c. p. s.
 HORIZONTAL SCALE : 1 : 20000
 SHEET 20/4239
 GRID NOTATION REFERS TO AUSTRALIAN MAP GRID



552046

FLOWN BY GEOMETRICS INT CORP
 JOB NO : 9221, FLOWN : MARCH - APRIL 1980
 83-1999 COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

SHELL MINERALS (AUST)	
MOINA - HOUSETOP TASMANIA	
TOTAL COUNT CONTOURS 1652	
SHEET 20/4239	
PROJ NO. MZ01/1051	DATE: 24-JAN-81

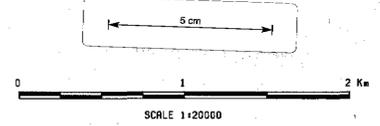


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
 SPECTROMETER : EXPLOANUM DCAS, VOLUME 1024 ou in
 DATA RECORDING : ALL DIGITAL TO MAGNETIC TAPE , ANALOGUE ON RCM-6
 DATA RECORDING INTERVAL : 1.0 SEC., APPROX 36M LINEAR SAMPLING
 AT MEAN GROUND SPEED OF 60 KNOTS
 FLIGHT PATH RECORD : HULCHER 35mm TRACKING CAMERA
 DETECTOR TERRAIN CLEARANCE : SPECTROMETER IN AIRCRAFT AT 100 metres MTC
 MAGNETOMETER SENSOR IN TOWED BIRD
 CABLE LENGTH 30 metres
 NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
 FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED AC9 PHOTOGRAPHY AT 1:20000
 AND 1:30000

PROCESSING SPECIFICATIONS

IGRF : REMOVED , DATUM 2000 NT ADDED
 RADIO-METRIC CORRECTIONS : COMPTON BACKGROUND ALTITUDE
 GRID MESH : 50m by 50m
 CONTOUR INTERVAL : 20 c.p.s.
 HORIZONTAL SCALE 1 : 20000
 SHEET 20/4240
 GRID NOTATION REFERS TO AUSTRALIAN MAP GRID



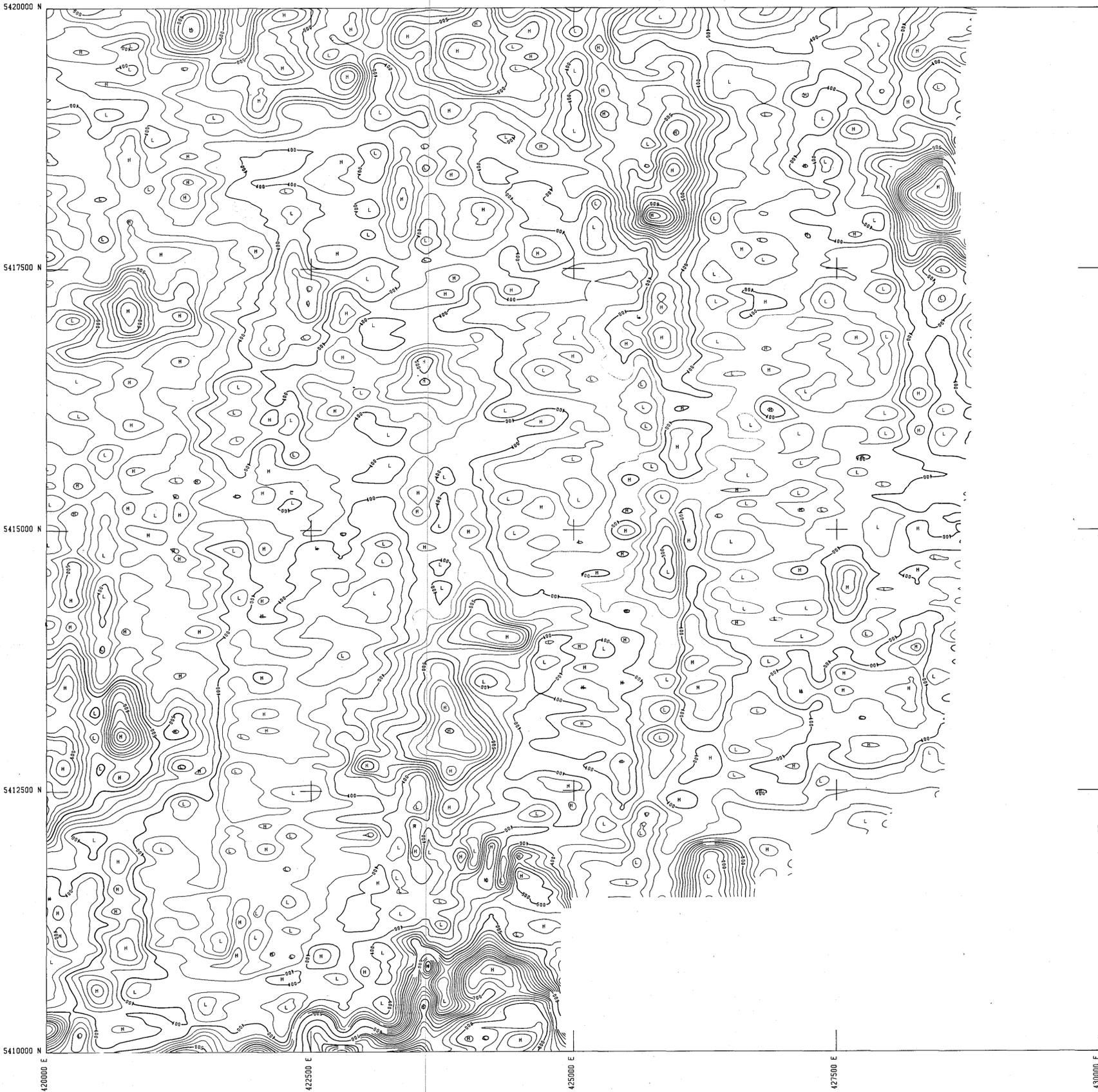
552047

FLOWN BY GEOMETRICS INT CORP
 JOB NO : 9221 , FLOWN : MARCH - APRIL 1980
 COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

83-1999

SHELL MINERALS (AUST)

MOINA - HOUSETOP TASMANIA
 TOTAL COUNT CONTOURS 1653
 SHEET 20/4240



5420000 N
 5417500 N
 5415000 N
 5412500 N
 5410000 N
 420000 E
 422500 E
 425000 E
 427500 E
 430000 E

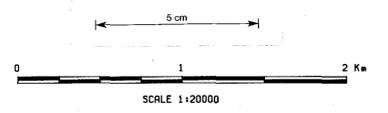


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
 SPECTROMETER : EXPLORANIUM DCRS, VOLUME 1024 cu in
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 DATA RECORDING INTERVAL : 1.0 SEC., APPROX 36M LINEAR SAMPLING
 AT MEAN GROUND SPEED OF 60 KNOTS
 FLIGHT PATH RECORD : HULCHER 35mm TRACKING CAMERA
 DETECTOR TERRAIN CLEARANCE : SPECTROMETER IN AIRCRAFT AT 100 metres MTC
 MAGNETOMETER SENSOR IN TOWED BIAD
 CABLE LENGTH 30 metres
 NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
 FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED RC9 PHOTOGRAPHY AT 1:20000
 AND 1:30000

PROCESSING SPECIFICATIONS

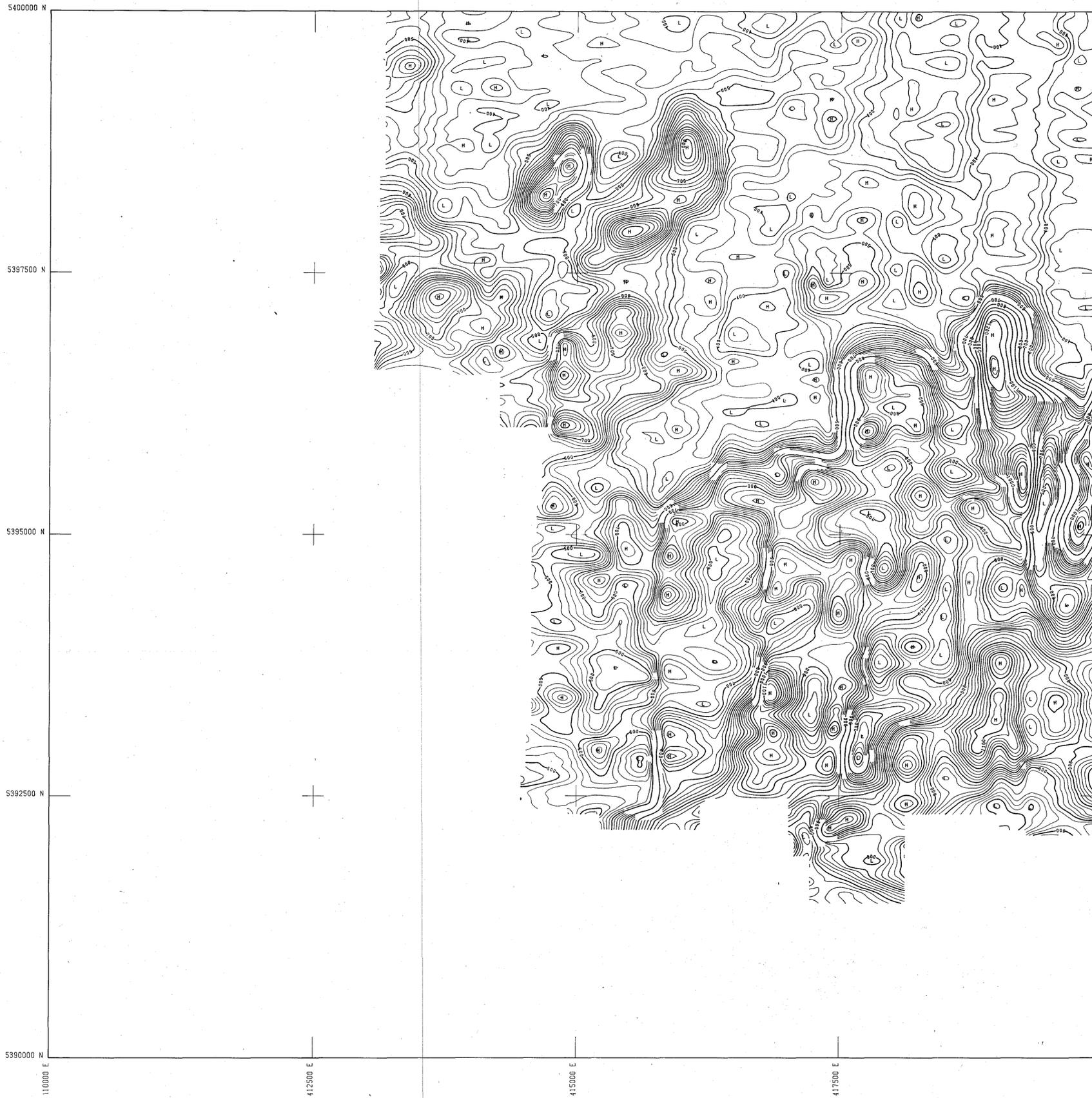
IGRF : REMOVED, DATUM 2000 NT ADDED
 RADIOMETRIC CORRECTIONS : COMPTON
 BACKGROUND
 ALTITUDE
 GRID MESH : 50m by 50m
 CONTOUR INTERVAL : 20 c.p.s.
 HORIZONTAL SCALE 1 : 20000
 SHEET 20/4241
 GRID NOTATION REFERS TO AUSTRALIAN MAP GRID



552048

FLOWN BY GEOMETRICS INT CORP
 JOB NO : 9221, FLOWN : MARCH - APRIL 1980
 33-1999 COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

SHELL MINERALS (AUST)	
MOINA - HOUSETOP TASMANIA	
TOTAL COUNT CONTOURS	
SHEET 20/4241 1654	
PROJ NO. MZ01/1047	DATE: 29-DEC-80

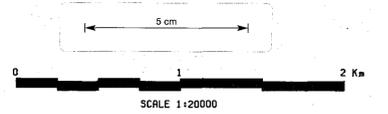


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
 SPECTROMETER : EXPLORANIUM DCRS, VOLUME 1024 cu in
 DATA RECORDING : ALL DIGITAL TO MAGNETIC TAPE, ANALOGUE ON ACM-6
 DATA RECORDING INTERVAL : 1.0 SEC., APPROX 36M LINEAR SAMPLING
 AT MEAN GROUND SPEED OF 60 KNOTS
 FLIGHT PATH RECORD : HULCHER 35mm TRACKING CAMERA
 DETECTOR TERRAIN CLEARANCE : SPECTROMETER IN AIRCRAFT AT 100 metres MTC
 MAGNETOMETER SENSOR IN TOWED BIRD
 CABLE LENGTH 30 metres
 NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
 FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED RC9 PHOTOGRAPHY AT 1:20000
 AND 1:30000

PROCESSING SPECIFICATIONS

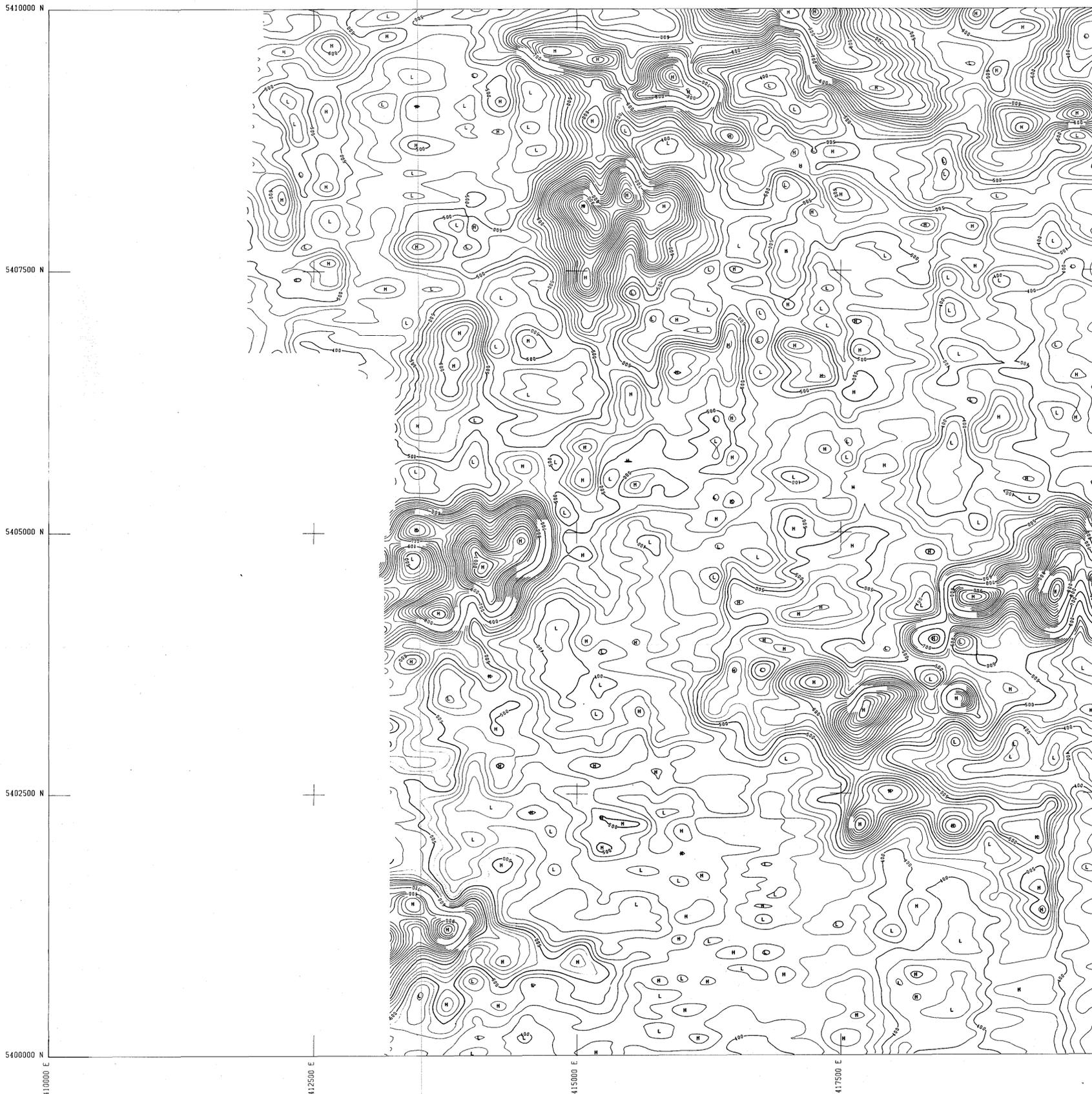
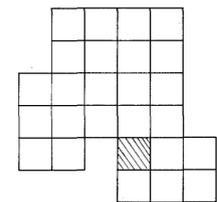
IGRF : REMOVED, DATUM 2000 NT ADDED
 RADIOMETRIC CORRECTIONS : COMPTON
 BACKGROUND
 ALTITUDE
 GRID MESH : 50m by 50m
 CONTOUR INTERVAL : 20 c. p. s.
 HORIZONTAL SCALE 1 : 20000
 SHEET 20/4139
 GRID NOTATION REFERS TO AUSTRALIAN MAP GRID



552049

FLOWN BY GEOMETRICS INT CORP
 JOB NO : 9221, FLOWN : MARCH - APRIL 1980
 COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

33-1999	
SHELL MINERALS (AUST)	
MOINA - HOusetop TASMANIA	
TOTAL COUNT CONTOURS	
SHEET 20/4139 1655	
PROJ NO. MZ01/1039	DATE: 24-JAN-81

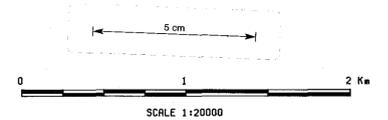


AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER : G-803 PROTON PRECESSION RECORDING TO 1.0 nT
SPECTROMETER : EXPLORANIUM DCAS, VOLUME 1024 cu in
DATA RECORDING : ALL DIGITAL TO MAGNETIC TAPE , ANALOGUE ON ACM-6
DATA RECORDING INTERVAL : 1.0 SEC., APPROX 36M LINEAR SAMPLING
AT MEAN GROUND SPEED OF 60 KNOTS
FLIGHT PATH RECORD : HULCHER 35mm TRACKING CAMERA
DETECTOR TERRAIN CLEARANCE :SPECTROMETER IN AIRCRAFT AT 100 metres MTC
MAGNETOMETER SENSOR IN TOWED BIRO
CABLE LENGTH 30 metres
NOMINAL FLIGHT LINE SPACING : 250m N-S and E-W, TIES 2.5km
FLIGHT LINE RECOVERY : VISUALLY TO ENLARGED AC9 PHOTOGRAPHY AT 1:20000
AND 1:30000

PROCESSING SPECIFICATIONS

IGRF : REMOVED , DATUM 2000 NT ADDED
RADIOMETRIC CORRECTIONS : COMPTON
BACKGROUND
ALTITUDE
GRID MESH :50m by 50m
CONTOUR INTERVAL : 20 c. p. s.
HORIZONTAL SCALE 1 : 20000
SHEET 20/4140
GRID NOTATION REFERS TO AUSTRALIAN MAP GRID



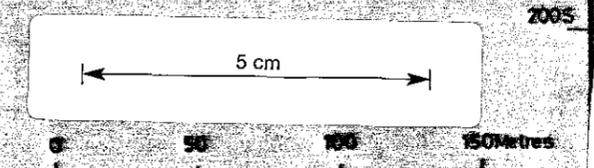
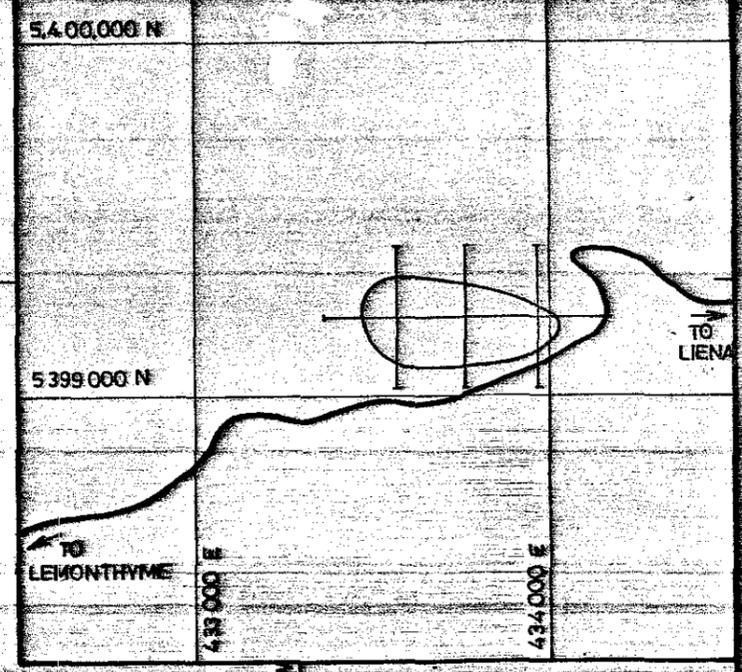
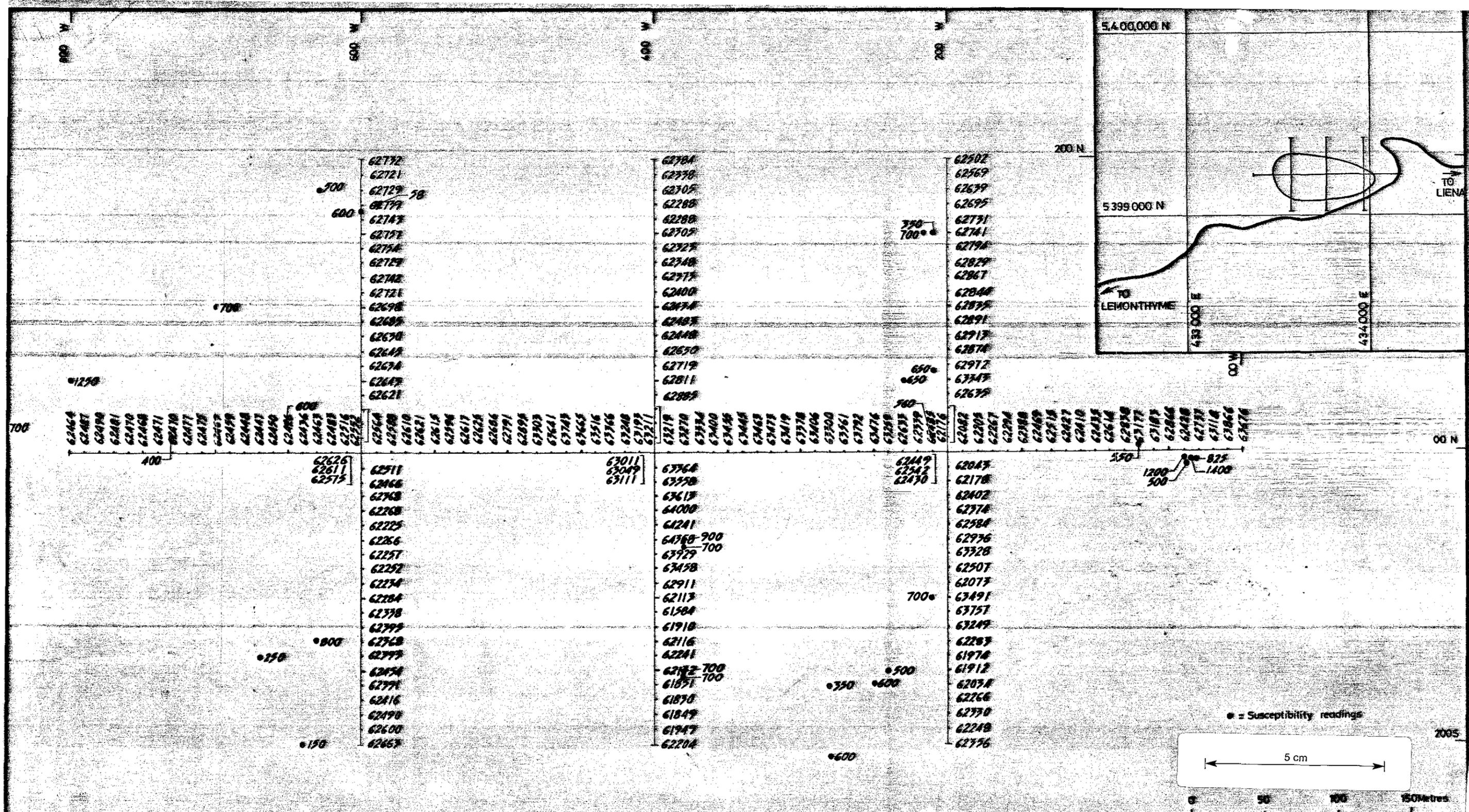
552050

FLOWN BY GEOMETRICS INT CORP
JOB NO : 9221 , FLOWN : MARCH - APRIL 1980
COMPILED BY ENGINEERING COMPUTER SERVICES PTY LTD

33-1999

SHELL MINERALS (AUST)

MOINA - HOusetop TASMANIA
TOTAL COUNT CONTOURS
SHEET 20/4140 1656



• = Susceptibility readings

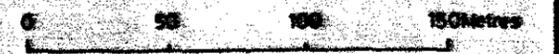
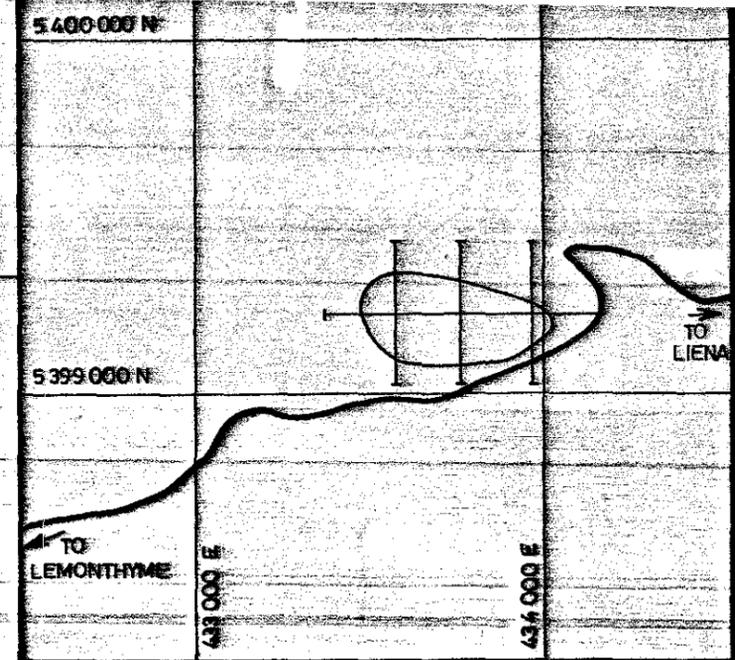
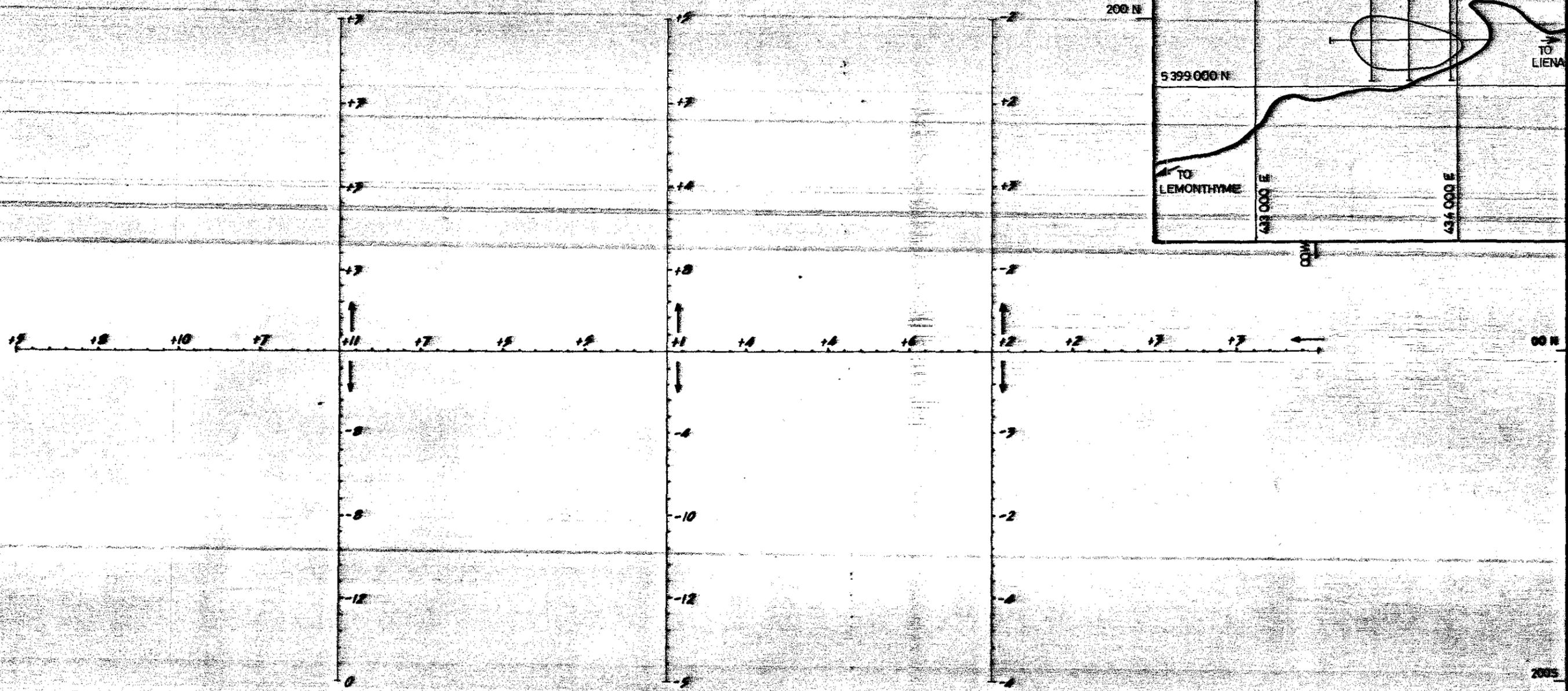
The Shell Company of Australia Limited
METALS DIVISION

E.L. 7/74 MOINA 1657
LIENA WEST
AEROMAGNETIC ANOMALY
4339/4
GROUND MAGNETICS

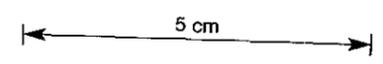
SCALE	1: 2500	DATE	29-10-82
AUTHOR	W.D. SMYTH	DRAWN	H.L.S.
OFFICE	DEVONPORT	REP.No.	
DRG.No.	D/MZ01/275	FIG.No.	

552051

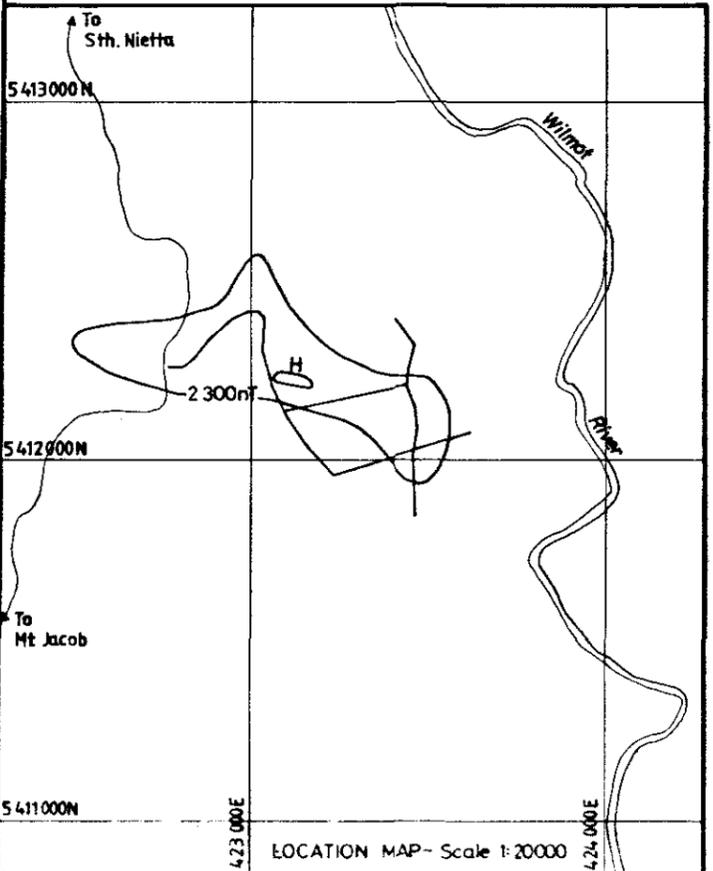
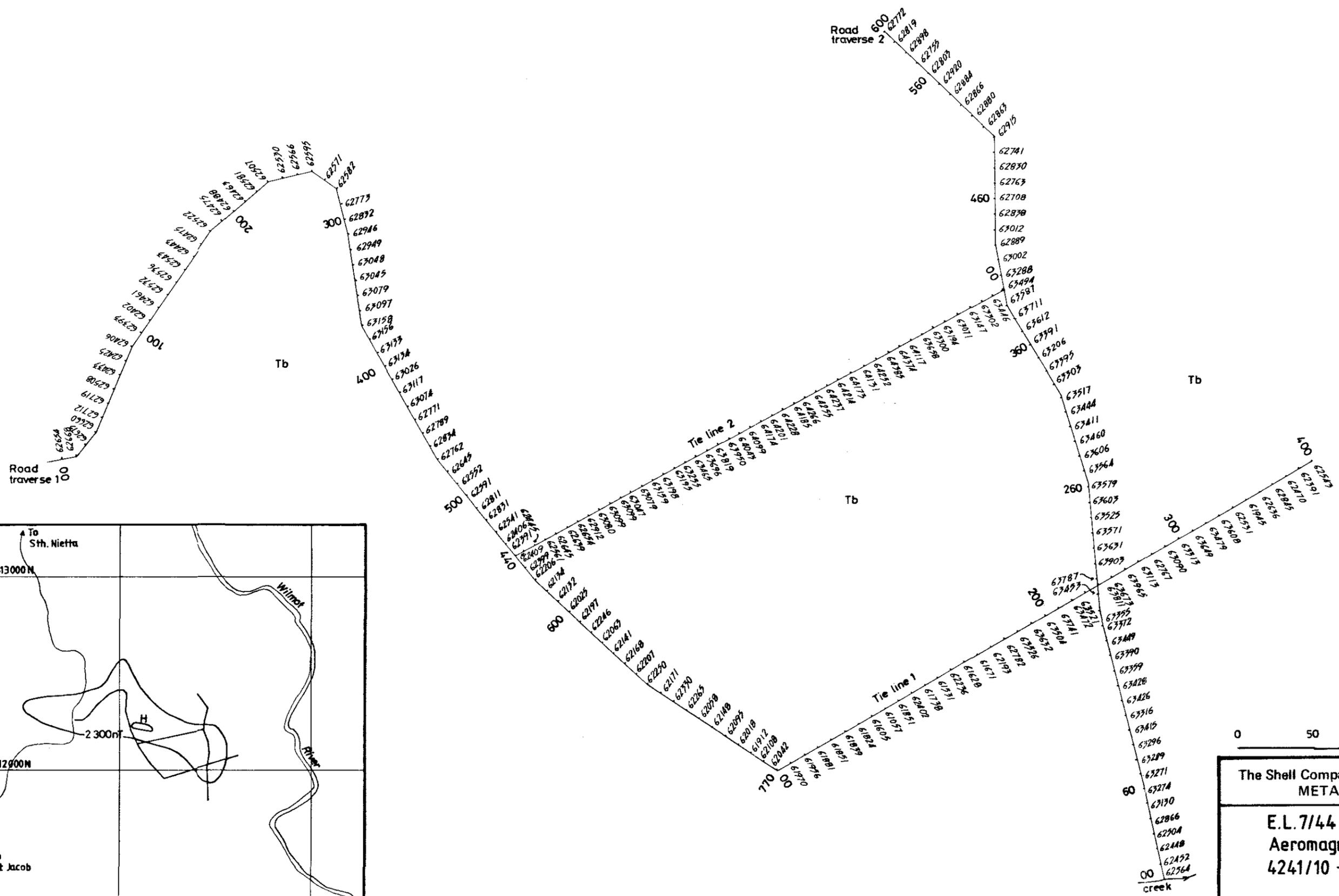
83-1999



552052



The Shell Company of Australia Limited METALS DIVISION			
E.L. 7174 MOINA		1658	
LIENA WEST AEROMAGNETIC ANOMALY 4339/4			
SLOPE CORRECTIONS			
SCALE	1: 2500	DATE	29-10-82
AUTHOR	W.D. SMYTH	DRAWN	H.L.S.
OFFICE	DEVONPORT	REP.No.	
DRG.No.	D/M201/ 276	FIG.No.	



552053

0 50 100 150 M

The Shell Company of Australia Limited METALS DIVISION			
E.L.7/44 M0INA Aeromagnetic Anomaly 4241/10 - SOUTH NIETTA			
1659			
SCALE	1: 2500	DATE	8-7-82
AUTHOR	W.D. SMYTH	DRAWN	H.L. SMYTH
OFFICE	DEVONPORT	REP No.	
DRC No.	D/M Z01/ 252	FIG No.	

83-1999

LEGEND

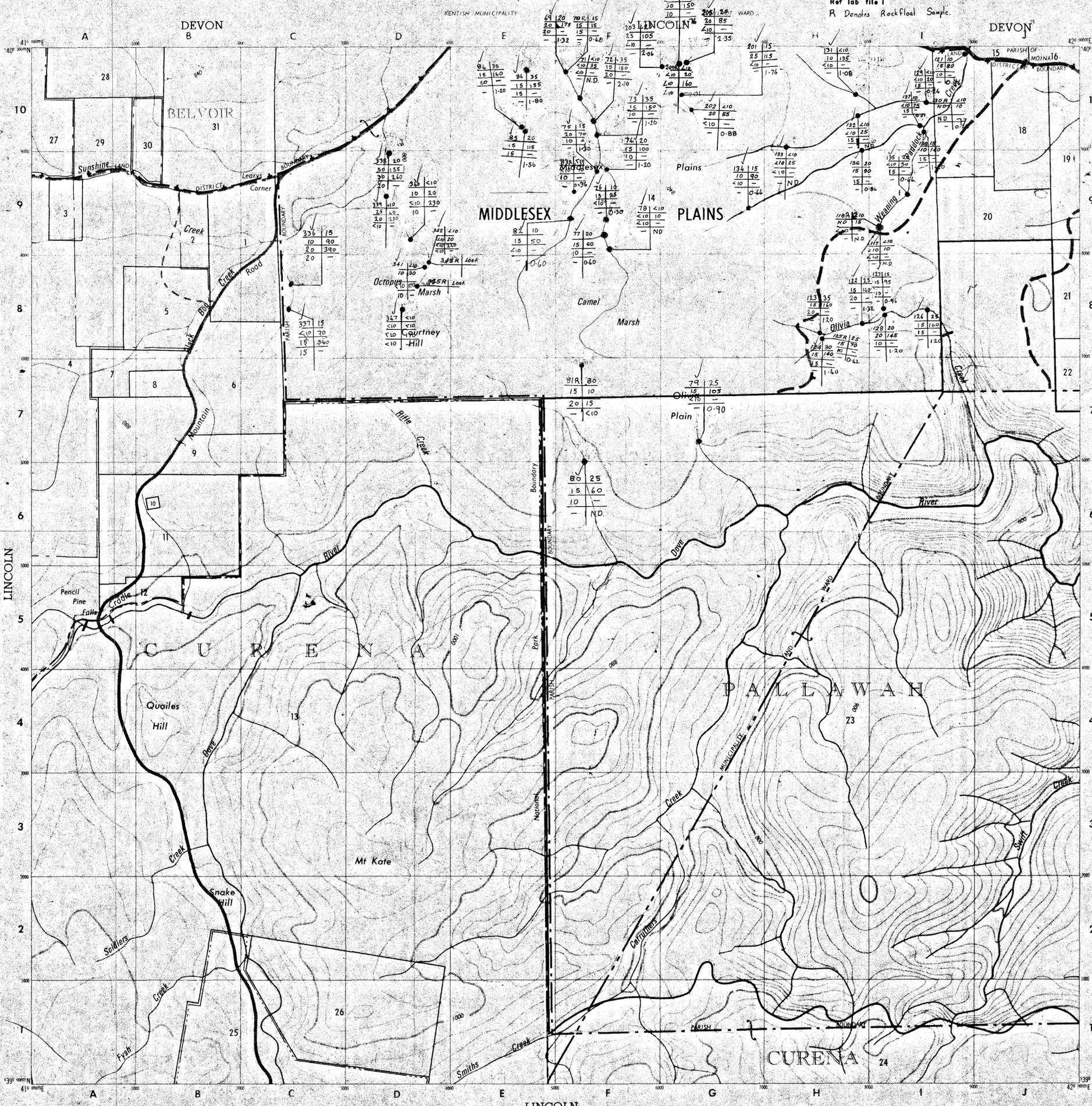
Sample No	Cu
Pb	Zn
Sb	F
Bi	As

Ref lab file 1
R Denotes Rockfloat Sample.

Numbers shown on this tenure map when used in conjunction with the sheet number provides a unique reference to any particular lot (e.g. 28/20/4845). Details of Tenure: G = granted lot, P.G. = purchase grant, P. = purchase lot, L.O. = location order, C.I. = certificate issued, S.S. = soldier settlement, S.S.L. = soldier settlement lease, R.A. = residence area, L. = lease lot, T.L. = temporary licence, C.L. = crown land, G.R.P. = granted under Real Property Act. Copies of this plan may be obtained from the Lands Dept. Box 444 G.P.O. Hobart.

CADASTRAL REFERENCE SHEET 20/4139

Map Ref	Survey Plan	Lot	Area	Name / Purpose	Tenure	Index Map Ref	Survey Plan	Lot	Area	Name / Purpose	Tenure
89	472	1	72.88ha	Kaart Vindor Pty. Ltd.	L.O.						
89	7110	1	20.28ha	Kaart Vindor Pty. Ltd.	L.O.						
89	220728	1	211.8ha	Vacant	L.O.						
89	220727	1	80.73ha	Gowell, M.	L.O.						
89	7111	1	28.29ha	Sastry, R.	L.O.						
89	7112	1	13.17ha	Sastry, R.	L.O.						
89	220727	1	1.61ha	Gowell, M.	L.O.						
89	8113	1	79.20ha	Acquired for Quarry	L.O.						
89	8114	1	40.38ha	Gowell, M.	L.O.						
89	204211	1	1246.53ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	184730	1	122.4ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	114731	1	105.7ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	4725	1	60.58ha	Mission, S.	L.O.						
89	4726	1	106.58ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	4727	1	46.74ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	4728	1	57.20ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	4729	1	50.24ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	4730	1	102.0ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	2732	1	364.0ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	114732	1	187.8ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	114733	1	121.5ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	114734	1	202.7ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	114735	1	207.8ha	Swainson, J. & Co. Pty. Ltd.	L.O.						
89	114736	1	276.8ha	Swainson, J. & Co. Pty. Ltd.	L.O.						



This is a Preliminary Edition prepared to provide reference information on areas in which mapping is in progress. This map is Crown Copyright and may only be reproduced upon written authority from the Surveyor General.

PRODUCTION: Lands Dept. 1975
 PROJECTION: Transverse Mercator
 HORIZONTAL DATUM: Australian Geodetic Datum 1966
 VERTICAL DATUM: Mean Sea Level
 COMPILATION: Based on 1:100 000 Topographical Series and Land District Charts

SCALE 1:20 000
 Line Scale Factor K for this sheet = 0.99968
 CONTOUR INTERVAL 20 METRES

CONVERSION TABLES

METRES	FEET
100	328
200	656
300	984
400	1312
500	1640
600	1968
700	2296
800	2624
900	2952
1000	3280
1100	3608
1200	3936
1300	4264
1400	4592
1500	4920
1600	5248
1700	5576
1800	5904
1900	6232
2000	6560

GRID CONVERGENCE CENTRE OF SHEET = 0.6'

MAP REFERENCE SYSTEM

20/4139

① Fractional scale in thousands is 1:20 000
 ② South-West co-ordinates of this map sheet are represented by 10,000 metre grid intervals of the Australian Map Grid (a 410,000m East and 390,000m North).

BOUNDARY LEGEND

- Land District
- Municipality
- Parish
- Ward
- Town
- Lease
- Licence
- State Forest
- Survey
- Miscellaneous

ROAD CLASSIFICATIONS

- Principal road and highway
- Secondary road
- Minor road
- Vehicular track
- Reserved road

The representation of a road or track on this map is no evidence of the existence of a right of way

INDEX TO ADJOINING SHEETS

4040	4140	4240
4039	4139	4239
4038	4138	4238

LOCATION DIAGRAM

46 120
50 15
ND -
0-30

37.2 120
50 15
55 400

LEGEND

SAMPLE No Cu

Pb Zn

Sb F

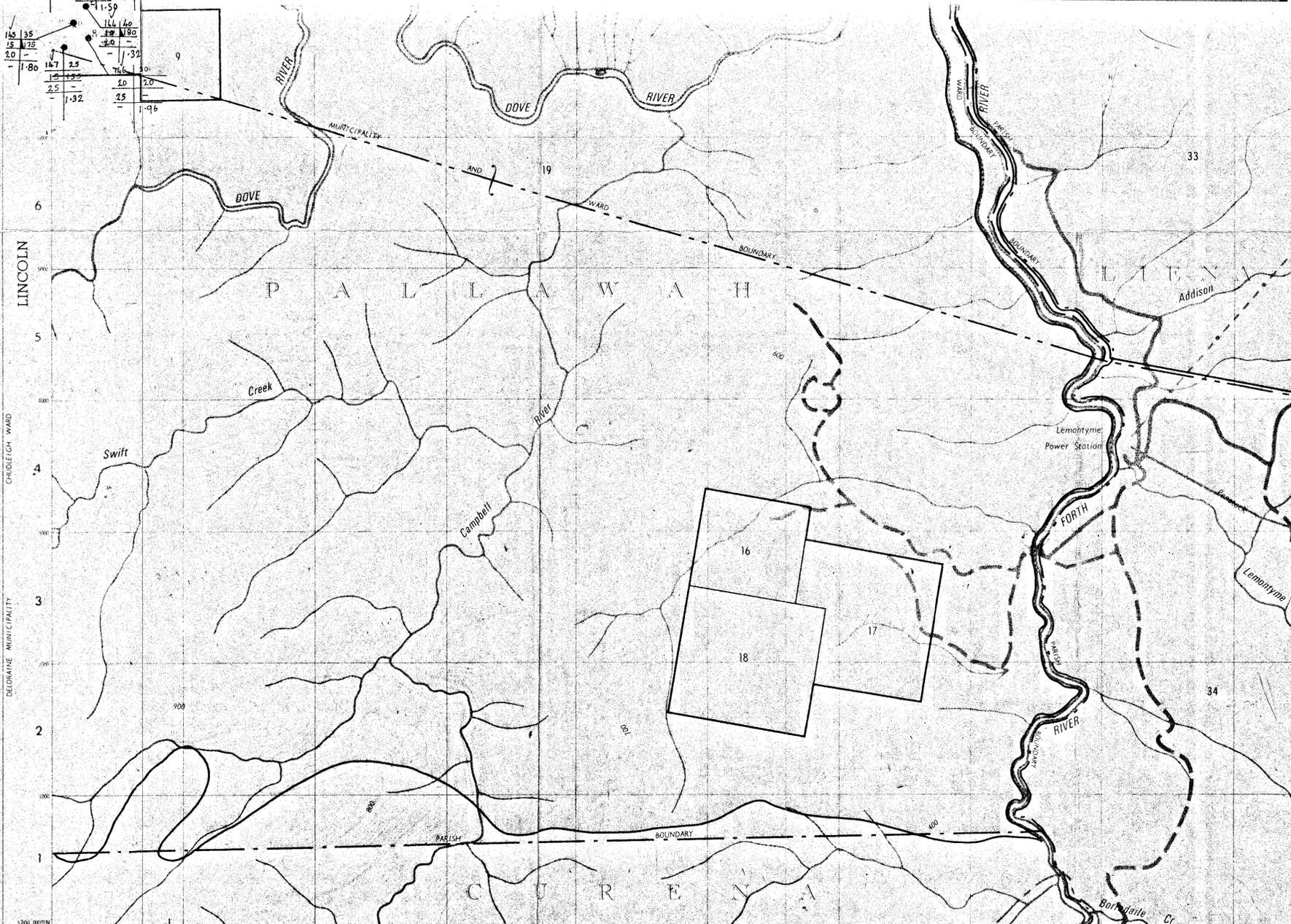
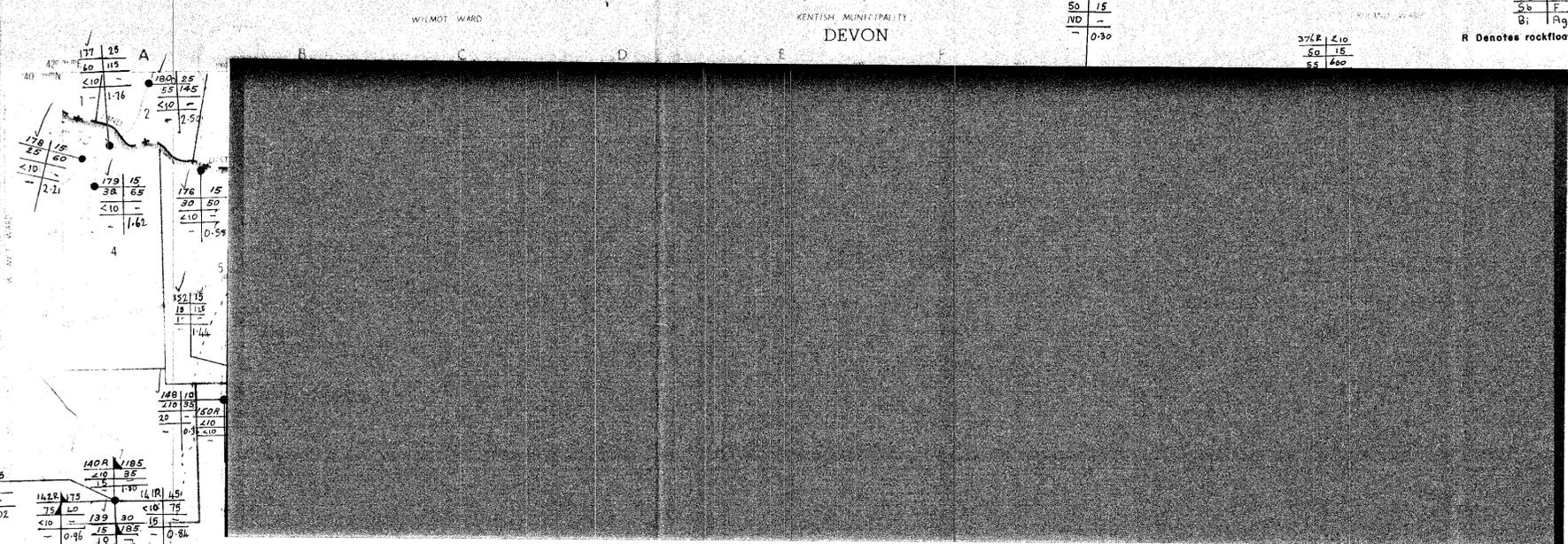
Bi Ag

R Denotes rockfloat sample.

Numbers shown on this tenure map when used in conjunction with the sheet number provides a unique reference to any particular lot. Details of Tenure: G = granted lot, P.G. = purchase grant, P. = purchase lot, L.O. = location order, C.I. = certificate issued, S.S. = soldier's settlement, S.S.L. = soldier's settlement lease, R.A. = residence area, L. = lease lot, T.L. = temporary lease, C.L. = crown land, G.R.P. = granted under Real Property Act. Copies of this plan may be obtained from the Lands Dept. Box 444, G.P.O. Hobart.

CADASTRAL REFERENCE SHEET 20/4239

Table with columns: Name, Purpose, Tenure, Index, Map, Survey, Plan, Lot, Area, Name, Purpose, Tenure. Contains detailed land tenure information for various lots.



Technical information including: SCALE 1:20 000, CONTOUR INTERVAL 20 METRES, MAGNETIC VARIATION 1920 APPROX 12.4, MAP REFERENCE SYSTEM 20/4239, LEGEND, ROAD CLASSIFICATIONS, INDEX TO ADJOINING SHEETS, and LOCATION DIAGRAM.

552056

Index numbers shown on this tenure map when used in conjunction with the sheet number provides a unique reference to any lot (e.g. 28/20/4845). Details of Tenure: G = granted lot, P.G. = purchase grant, P. = purchase lot, L.O. = location order, C.I. = certificate issued, S.S. = soldier settlement, S.S.L. = soldier settlement lease, R.A. = residence area, L. = lease lot, T.L. = temporary licence, C.L. = crown land, G.R.P. = granted under Real Property Act. Copies of this plan may be obtained from the Lands Dept. or Box 44a G.P.O. Hobart.

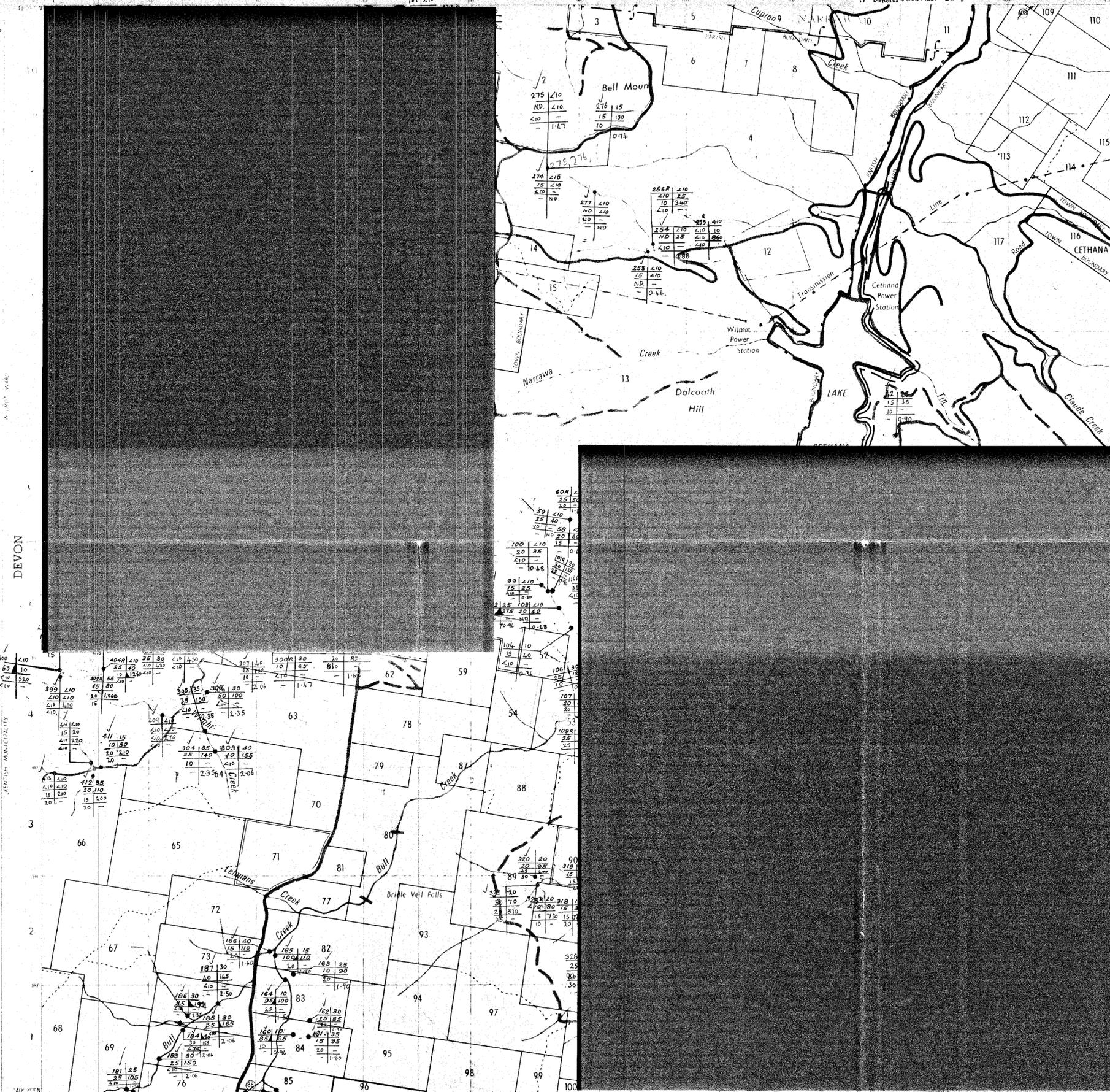
CADASTRAL REFERENCE SHEET 20/4240

Table with columns: Index, Map Ref, Survey Plan, Lot, Area, Name, Purpose, Tenure. Contains detailed land tenure information for the area.

CADASTRAL - TOPOGRAPHIC SERIES (Preliminary Edition)

LEGEND

Table with columns: SAMPLE No, Cu, Pb, Zn, Fe, Ag. Includes a note: 'A Denotes rock float sample'.



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PRODUCTION: Lands Dept. 1975. PROJECTION: Transverse Mercator. HORIZONTAL DATUM: Australian Geodetic Datum 1966. VERTICAL DATUM: Mean Sea Level. COMPLETION: based on 1:100 000 Topographical Series and Land District Charts.

SCALE 1:20 000

Line Scale Factor K for this sheet = 0.99967

CONTOUR INTERVAL 20 METRES

CONVERSION TABLES

Conversion tables for METRES to FEET and METRES to MILES. Includes a note: 'METRIC MAP'.

MAGNETIC VARIATION 1970 APPROX 11.3

BASE ON LUNGA APPROX 10.1 1897 1 1897

MAP REFERENCE SYSTEM

20/4240

1 Fractional scale in thousands x 120 000

2 South West co-ordinates of this map sheet as represented by 10 000 metre grid intervals of the Australian Map Grid x 420 000 East and 420 000 North

BOUNDARY LEGEND

Legend for boundaries: Land, Municipality, Parish, Ward, Town, Lease, Licence, State Forest, Survey, Miscellaneous.

ROAD CLASSIFICATIONS

Legend for road types: Principal road and highway, Secondary road, Minor road, Vehicular track, Reserved road.

The representation of a road or track on this map is no evidence of the existence of a right of way

INDEX TO ADJOINING SHEETS

Grid of sheet numbers: 4141, 4241, 4341; 4140, 4240, 4340; 4139, 4239, 4339.

LOCATION DIAGRAM

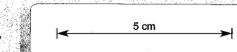


They are requested to notify any error to the Surveyor General, Box 44a, G.P.O. Hobart.

552057

TAS 177/98E

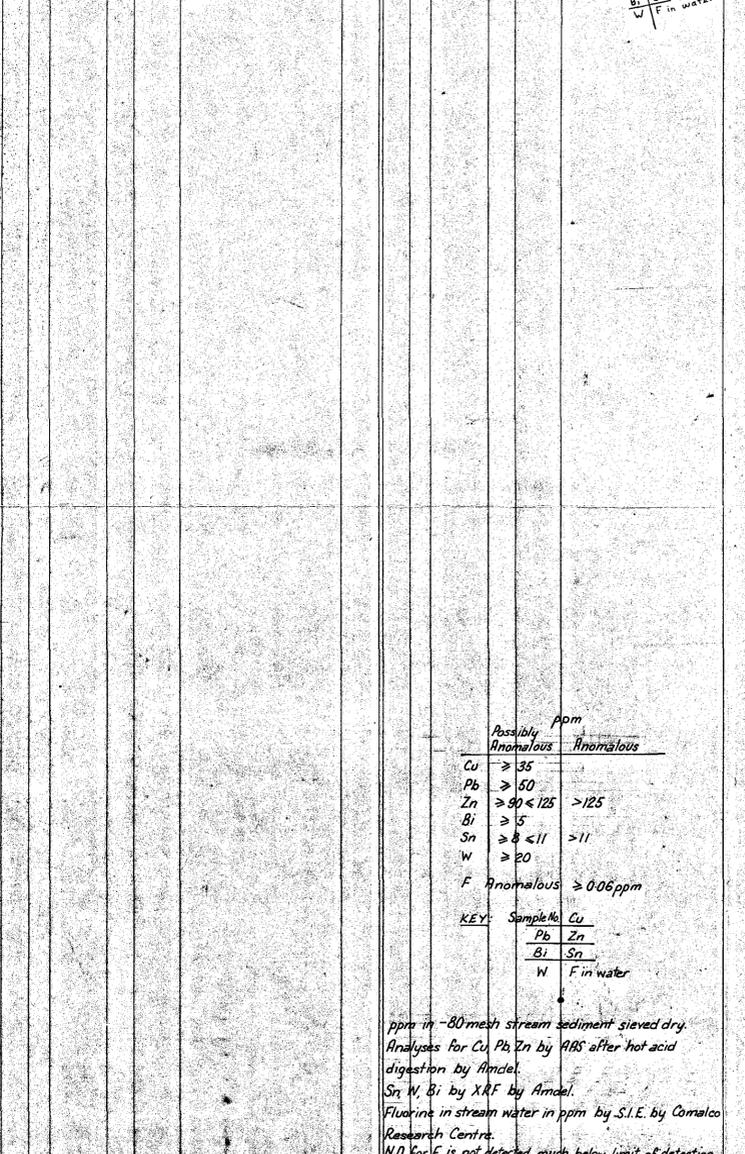
83-1999 1663



Index numbers shown on this tenure map when used in conjunction with the sheet number provides a unique reference to any lot (e.g. 28/20/4845). Details of Tenure, G = granted lot, P.G. = purchase grant, P. = purchase lot, L.O. = location order, C.I. = certificate issued, S.S. = soldier settlement, S.S.L. = soldier settlement lease, R.A. = residence area, L. = lease lot, T.L. = temporary licence, C.L. = crown land, G.R.P. = granted under Real Property Act. Copies of this plan may be obtained from the Lands Dept. or Box 446 G.P.O. Hobart.

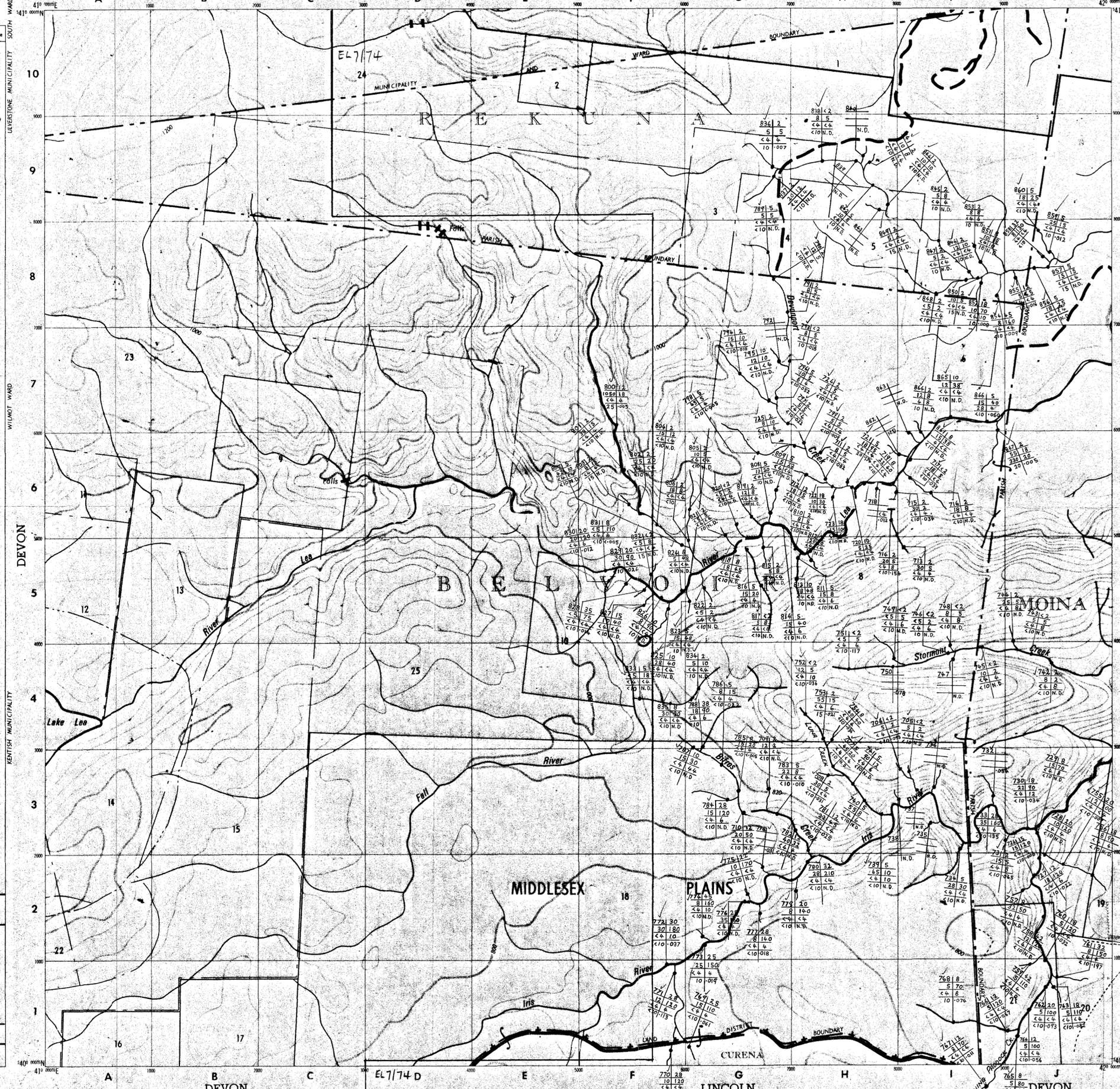
CADASTRAL REFERENCE SHEET 20/4140

Map Index	Survey Plan	Lot	Area	Name / Purpose	Tenure	Map Index	Survey Plan	Lot	Area	Name / Purpose	Tenure		
1	R10	-	-	Part of State Forest Gaz: 26.6.68	C.L.	1	R10	-	-	Part of State Forest Gaz: 26.6.68	C.L.		
2	R10	137/23	-	Vacant	C.L.	2	R10	137/23	-	Vacant	C.L.		
3	R10	-	1220	121.4ha	C.L.	3	R10	-	1220	121.4ha	C.L.		
4	R10	-	1194	80.94ha	C.L.	4	R10	-	1194	80.94ha	C.L.		
5	R10	-	1219	80.94ha	C.L.	5	R10	-	1219	80.94ha	C.L.		
6	R10	-	-	20.23ha	T.L.	6	R10	-	-	20.23ha	T.L.		
7	R10	-	1218	1093ha	Vacant	C.L.	7	R10	-	1218	1093ha	Vacant	C.L.
8	R10	-	-	161.9ha	C.L.	8	R10	-	-	161.9ha	C.L.		
9	R10	153/10	-	161.9ha	C.L.	9	R10	153/10	-	161.9ha	C.L.		
10	R10	130/2	-	81.34ha	C.L.	10	R10	130/2	-	81.34ha	C.L.		
11	R10	-	1196	202.3ha	C.L.	11	R10	-	1196	202.3ha	C.L.		
12	R10	-	-	158.2ha	C.L.	12	R10	-	-	158.2ha	C.L.		
13	R10	151/4	-	161.9ha	C.L.	13	R10	151/4	-	161.9ha	C.L.		
14	R10	-	-	607.0ha	C.L.	14	R10	-	-	607.0ha	C.L.		
15	R10	-	-	121.4ha	C.L.	15	R10	-	-	121.4ha	C.L.		
16	R10	138/9	-	239.8ha	C.L.	16	R10	138/9	-	239.8ha	C.L.		
17	R10	-	-	408.7ha	C.L.	17	R10	-	-	408.7ha	C.L.		
18	R10	-	-	106.2ha	C.L.	18	R10	-	-	106.2ha	C.L.		
19	R10	-	-	105.1ha	C.L.	19	R10	-	-	105.1ha	C.L.		
20	R10	116/26	-	122.4ha	C.L.	20	R10	116/26	-	122.4ha	C.L.		
21	R10	-	-	318.0ha	C.L.	21	R10	-	-	318.0ha	C.L.		
22	R10	-	-	-	C.L.	22	R10	-	-	-	C.L.		
23	R10	-	-	-	C.L.	23	R10	-	-	-	C.L.		
24	R10	-	-	-	C.L.	24	R10	-	-	-	C.L.		
25	R10	-	-	-	C.L.	25	R10	-	-	-	C.L.		



Sample No.	Cu	Pb	Zn	Bi	Sn	F
1	35	60	90	15	11	20
2	35	60	125	15	11	20
3	35	60	125	15	11	20
4	35	60	125	15	11	20
5	35	60	125	15	11	20
6	35	60	125	15	11	20
7	35	60	125	15	11	20
8	35	60	125	15	11	20
9	35	60	125	15	11	20
10	35	60	125	15	11	20
11	35	60	125	15	11	20
12	35	60	125	15	11	20
13	35	60	125	15	11	20
14	35	60	125	15	11	20
15	35	60	125	15	11	20
16	35	60	125	15	11	20
17	35	60	125	15	11	20
18	35	60	125	15	11	20
19	35	60	125	15	11	20
20	35	60	125	15	11	20
21	35	60	125	15	11	20
22	35	60	125	15	11	20
23	35	60	125	15	11	20
24	35	60	125	15	11	20
25	35	60	125	15	11	20

Compiled: T. Waite
Scale: 1:20000 Drg. No. TAS-79-33
83-1999 1664 552058



PRODUCTION: Lands Dept. 1975
PRODUCTION: Transverse Mercator
HORIZONTAL DATUM: Australian Geodetic Datum 1966
VERTICAL DATUM: Mean Sea Level
COMPILED: Based on 1:50,000 Topographic Series and Land District Charts

SCALE 1:20 000
Line Scale Factor K for this sheet = 0.99949

CONTOUR INTERVAL 20 METRES

METRES TO FEET	CONVERSION TABLES
100	328
200	656
300	984
400	1312
500	1640
600	1968
700	2296
800	2624
900	2952
1000	3280
1100	3608
1200	3936
1300	4264
1400	4592
1500	4920
1600	5248
1700	5576
1800	5904
1900	6232
2000	6560
2100	6888
2200	7216
2300	7544
2400	7872
2500	8200
2600	8528
2700	8856
2800	9184
2900	9512
3000	9840
3100	10168
3200	10496
3300	10824
3400	11152
3500	11480
3600	11808
3700	12136
3800	12464
3900	12792
4000	13120
4100	13448
4200	13776
4300	14104
4400	14432
4500	14760
4600	15088
4700	15416
4800	15744
4900	16072
5000	16400
5100	16728
5200	17056
5300	17384
5400	17712
5500	18040
5600	18368
5700	18696
5800	19024
5900	19352
6000	19680
6100	20008
6200	20336
6300	20664
6400	20992
6500	21320
6600	21648
6700	21976
6800	22304
6900	22632
7000	22960
7100	23288
7200	23616
7300	23944
7400	24272
7500	24600
7600	24928
7700	25256
7800	25584
7900	25912
8000	26240
8100	26568
8200	26896
8300	27224
8400	27552
8500	27880
8600	28208
8700	28536
8800	28864
8900	29192
9000	29520
9100	29848
9200	30176
9300	30504
9400	30832
9500	31160
9600	31488
9700	31816
9800	32144
9900	32472
10000	32800

THIS IS A METRIC MAP

CONTOUR INTERVAL 20 METRES

GRID CONVERGENCE CENTER OF SHEET = 0.0°

MAP REFERENCE SYSTEM
20/4140

BOUNDARY LEGEND

- Land District
- Municipality
- Perish
- Ward
- Town
- Lease
- License
- State Forest
- Survey
- Miscellaneous

ROAD CLASSIFICATIONS

- Principal road and highway
- Secondary road
- Minor road
- Vehicle road
- Reserved road

INDEX TO ADJOINING SHEETS

4041	4141	4241
4040	4140	4240
4039	4139	4239

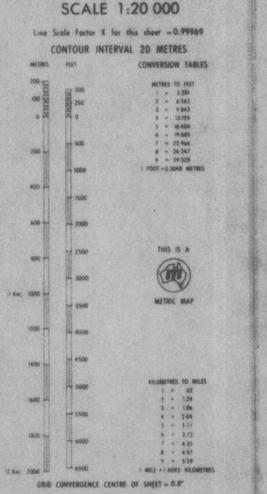
CADASTRAL - TOPOGRAPHIC SERIES
(Preliminary Edition)

REFER TO THIS MAP AS SHEET 20/4140



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PRODUCTION: Lands Dept 1975
PROJECTION: Transverse Mercator
HORIZONTAL DATUM: Australian Geodetic Datum 1966
VERTICAL DATUM: Mean Sea Level
COMPILED: Based on 1:50 000 Topographical Series and Land District Charts.



MAGNETIC VARIATION 1970 APPROX 12.2°
DATE OF CHANGE APPROX 10.1° EVERY 2 YEARS

MAP REFERENCE SYSTEM

① 20/4140

① Fractional scale in thousands is 1:20 000
② South-West co-ordinates of this map sheet as represented by 10,000 metre grid intervals of the Australian Map Grid is 41,000m East and 410,000m North.

BOUNDARY LEGEND

- Land District
- Municipality
- Parish
- Ward
- Town
- Lease
- Licence
- State Forest
- Survey
- Miscellaneous

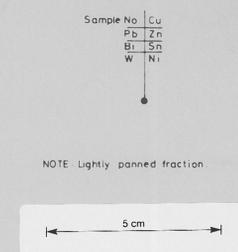
ROAD CLASSIFICATIONS

- Principal road and highway
- Secondary road
- Minor road
- Vehicular track
- Reservoir road

The representation of a road or track on this map is no evidence of the existence of a right of way

INDEX TO ADJOINING SHEETS

4041	4141	4241
4040	4140	4240
4039	4139	4239



552059

The Shell Company of Australia Limited
METALS DIVISION

E.L. 774 MOINA
CADASTRAL 4140
STREAM SEDIMENT SAMPLING

Scale 1:20 000

FIG No	REPORT No
ENCL No	DRG No D/M201/166
DATE 16-9-81	AUTHOR W.D. SMYTH
DRAWN	OFFICE DEVONPORT

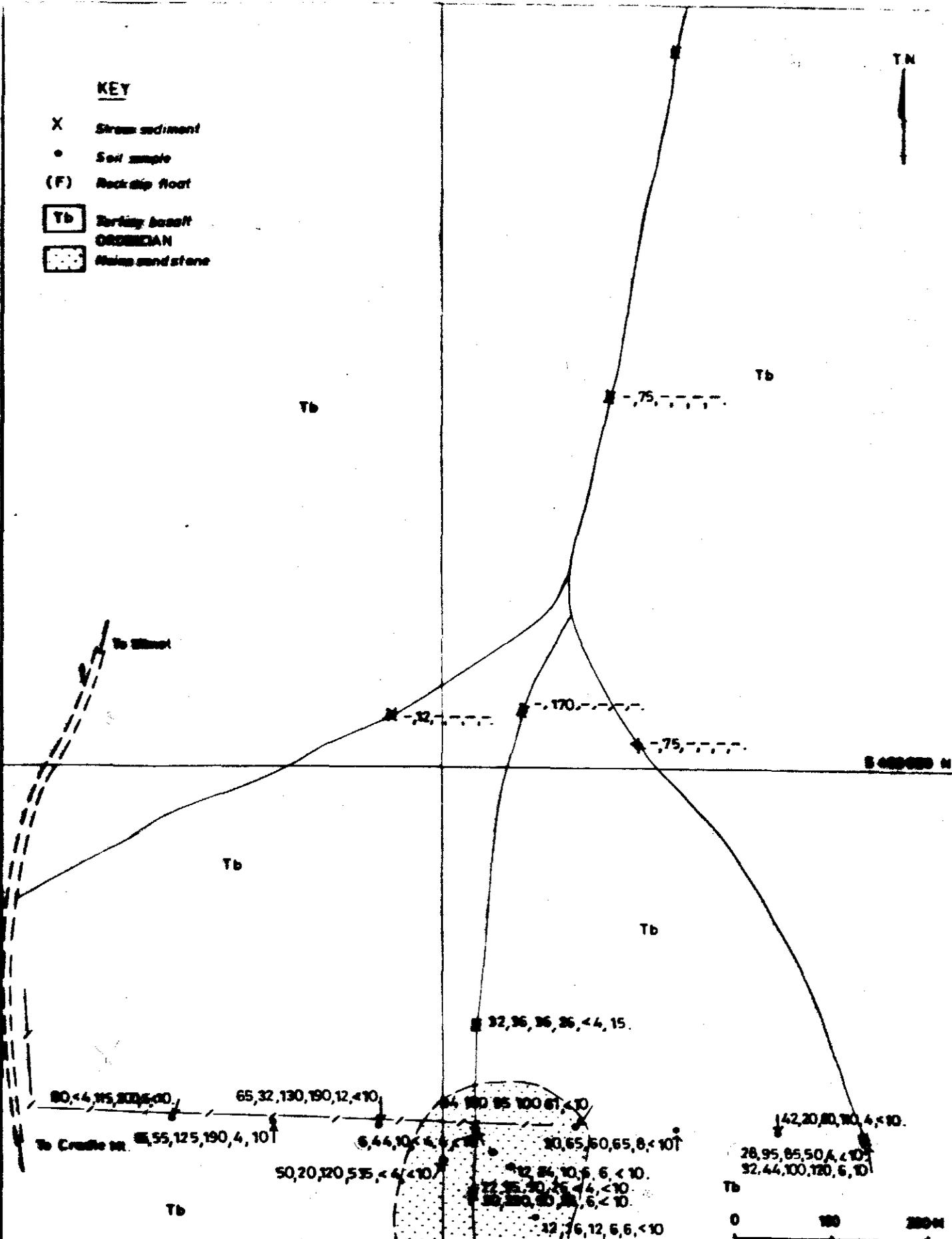
1665

83-1999

026

KEY

- X Stream sediment
- Soil sample
- (F) Rock chip float
- Tb Tertiary basalt
- ORONDIAN
- ORONDIAN
- ORONDIAN



80, <4, 115, 200, <10

65, 32, 130, 190, 12, <10

44, 100, 85, 100, 67, <10

Tb Creek #1 55, 125, 190, 4, 10

6, 44, 10, <4, <10

10, 65, 50, 65, 8, <10

50, 20, 120, 5, 35, <4, <10

12, 24, 10, 5, 6, <10

17, 15, 30, 15, <4, <10

15, 150, 80, 11, 6, <10

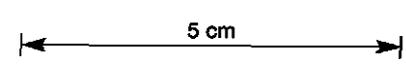
12, 16, 12, 6, 6, <10

142, 20, 80, 10, 4, <10

28, 95, 85, 50, 4, <10

32, 44, 100, 120, 6, 10

552060



Analyses in p.p.m.
Cu, Pb, Zn, Ni, Sn, W.

The Shell Company of Australia Limited
METALS DIVISION

E.L. 7/76 NODIA
SULL CREEK AREA
Stream sediment follow up

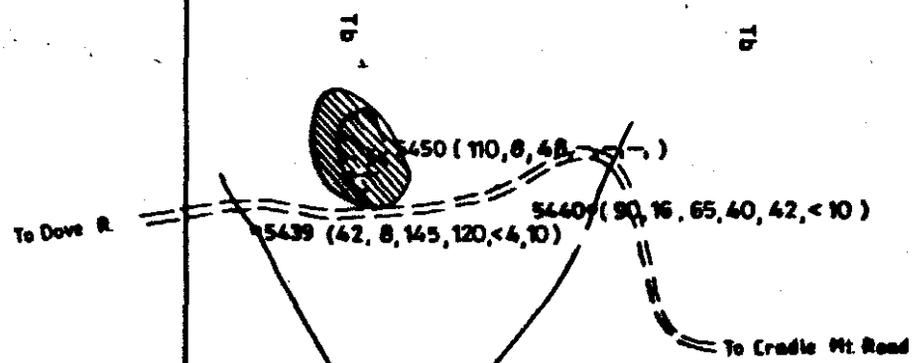
Scale: 1:5000

DATE	ANALYST
7-7-63	

027 83-1999

5 397 000 m N

418 000 m E



5441 (60, 12, 180, 80, <4, <10)

5442 (90, 6, 180, 100, 4, <10)

5443 (48, 14, 175, 95, <4, 10)

- Stream
- Stream Sediment Sample
- Road Ore Sample
- Tertiary Basalt
- Presambrian Schists



552061

Analysis in p.p.m.
Sample No. (Cu, Pb, Zn, Ni, Sn, W.)

The Shell Company of Australia Limited METALS DIVISION	
EL 7/74 MOINA OLIVIA CREEK AREA STREAM SEDIMENT FOLLOW UP	
Scale: 1:5 000	
FIG. No.	REPORT No.
ENCL. No.	DRG. No. D/83/276
DATE 7-7-83	AUTHOR W.E.E.