AGSO

DRAFTING AND TYPE SPECIFICATIONS FOR 1:100 000 AND 1:250 000 GEOLOGICAL MAPS

compiled by D M Pillinger

RECORD 1994/24

AGSO

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

DRAFTING and TYPE SPECIFICATIONS for 1:100 000 and 1:250 000 GEOLOGICAL MAPS

Record 1994/24

Compiled by D.M. Pillinger

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

DEPARTMENT OF PRIMARY INDUSTRIES AND ENERGY

Minister for Resources: Hon. David Beddall, MP
Secretary: Greg Taylor

AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

Executive Director: Harvey Jacka

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CONTENTS

MAP SURROUNDS

TYPE STYLES

GENERAL NOTES

*FONTS quoted are from the **BITSTREAM** Font Library*

Example

FT 64 1.7mm Tx=.17/Tx=.43 Univers Medium

Font Number *Type Size* *100K Scale* *250K Scale* *Type Style*

FONTS AVAILABLE

FONT 6 – Times Roman Medium

FONT 7 – Times Roman Medium Italic

FONT 8 – Times Bold Condensed

FONT 9 – Times Roman Bold Condensed Italic

FONT 12 – Open Face

FONT 50 – Times Roman Medium Condensed

FONT 52 – Times Roman Medium Condensed Italic

FONT 58 – Univers Light

FONT 59 – Univers Light Italic

FONT 60 – Univers Light Condensed

FONT 61 – Univers Light Condensed Italic

FONT 62 – Univers Medium Condensed

FONT 63 – Univers Medium Condensed Italic

FONT 64 – Univers Medium

FONT 65 – Univers Medium Italic

FONT 66 – Univers Bold

FONT 67 – Univers Bold Italic

FONT 68 – Univers Bold Condensed

FONT 69 – Univers Bold Condensed Italic

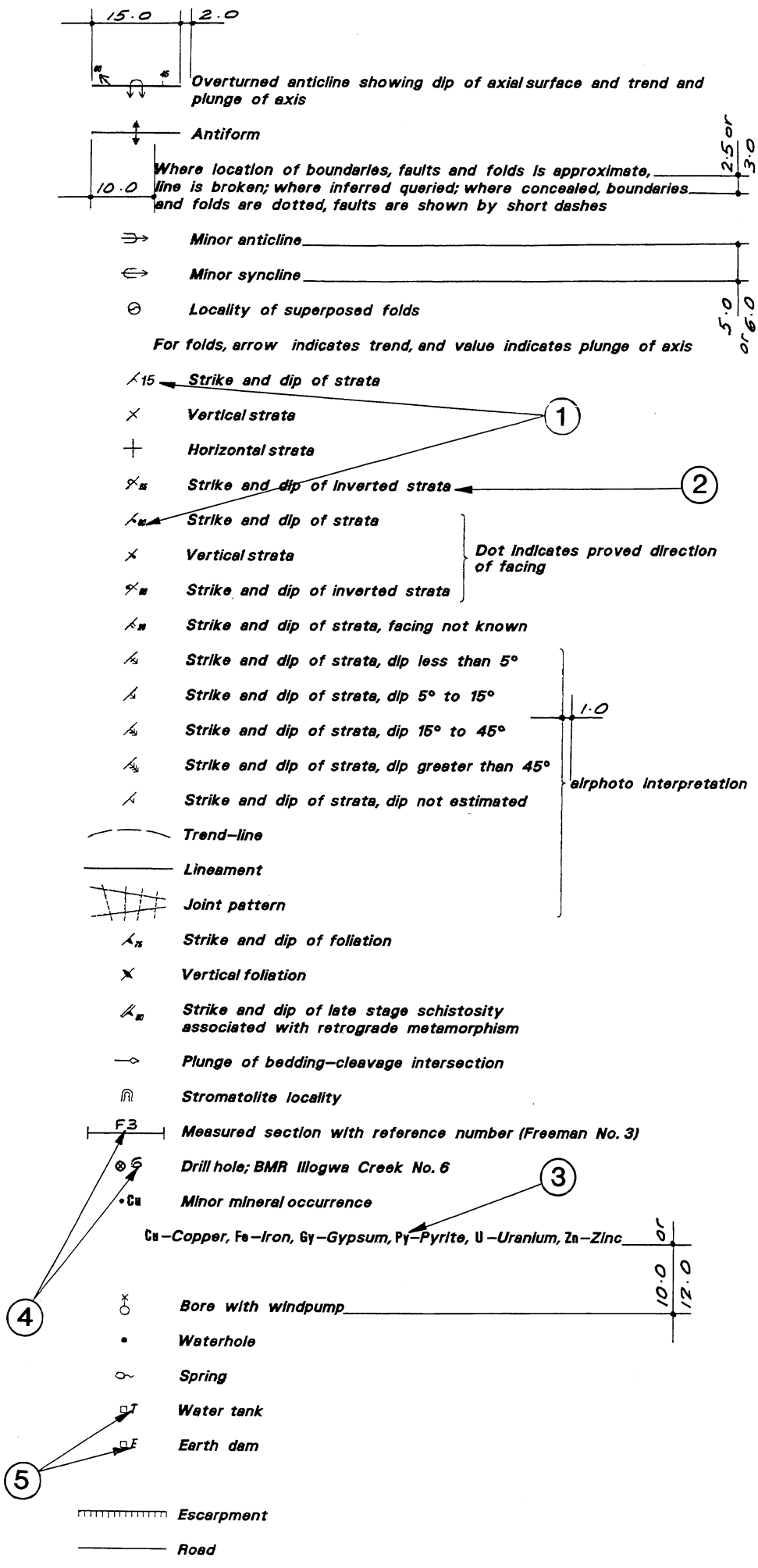
FONT 127 – Stick Face

SYMBOLS

Most geological/geophysical and topographic symbols are available in the AGSO Digital Cell Library. Others such as geological boundaries, fault, roads, escarpments etc are described in AGSO book " Symbols used on Geological Maps" printed 1989. Symbols such as bores, wells etc are also described and classified

Symbols which appear on AUSLIG (Australian Land and Information Group) and ARMY (Royal Australian Survey Corps) bases and which require amendment in order to agree with AGSO standards include oil and gas wells, mines, bores, wells and springs

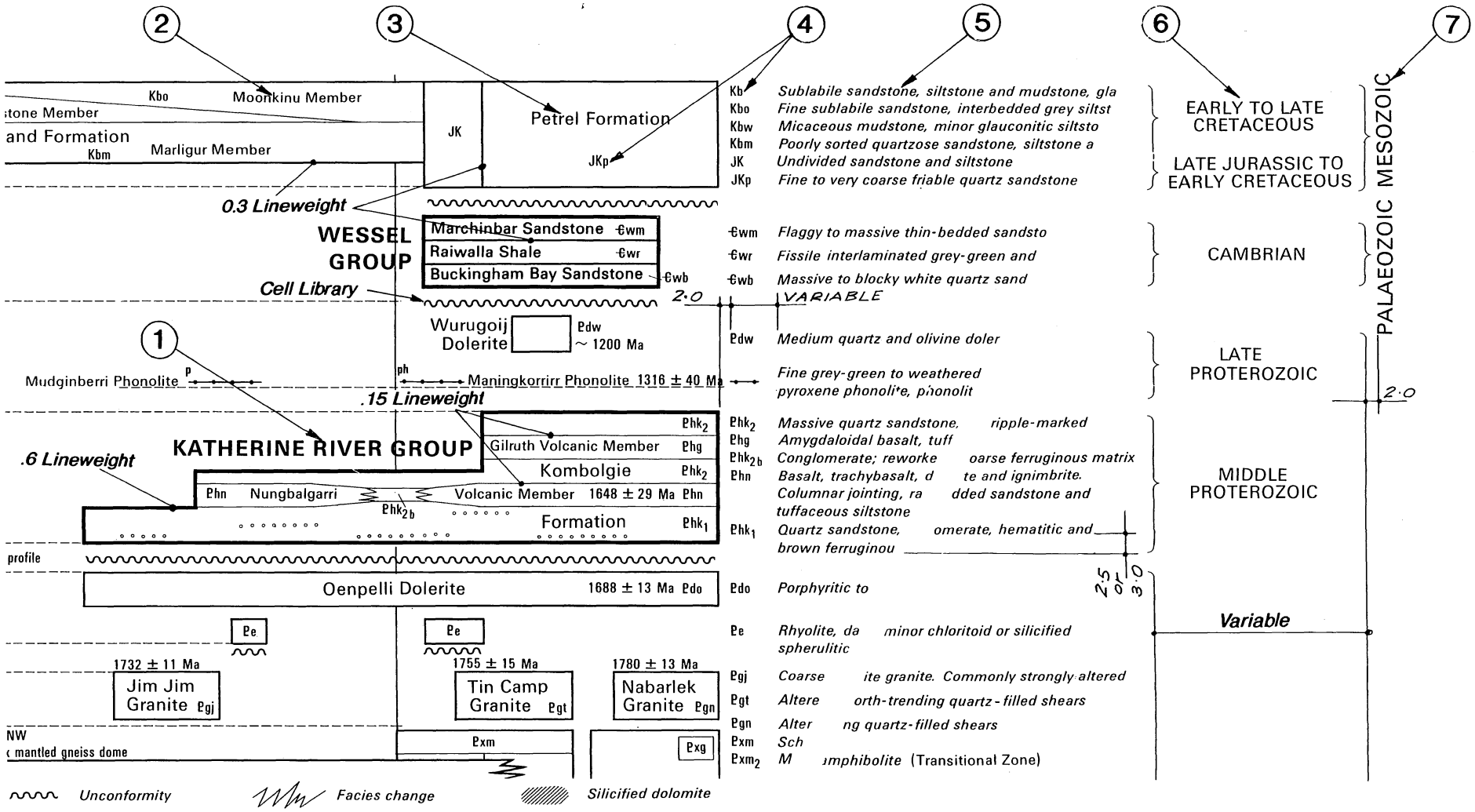
It should be noted that AGSO is obliged to utilise AUSLIG and ARMY bases (with updating) whenever practical; also that there are numerous variations between cartographic specifications adopted by both authorities. However AUSLIG usually amends and reprints ARMY maps to relate more closely to their standards. In cases where this has not occurred, changes or additions should follow AUSLIG specifications as closely as possible



Mineral abbreviations to be listed alphabetically

1. **FT 63** 1.2mm Tx = .12 /Tx = .3 Univers Medium Condensed Italic
2. **FT 65** 1.7mm Tx = .17/Tx = .43 Univers Medium Italic
3. **FT 68** 1.7mm Tx = .17/Tx = .43 Univers Bold Condensed
4. **FT 64** 1.5mm Tx = .15 /Tx = .38 Univers Medium
5. **FT 63** 1.5mm Tx = .15 /Tx = .38 Univers Medium Condensed Italic

ALL MEASUREMENTS ARE IN MILLIMETRES



① **FT 66** 2.5mm Tx = .25/Tx = .63 Univers Bold

② **FT 64** 1.7mm Tx = .17/Tx = .43 Univers Medium

③ **FT 64** 2.2mm Tx = .22/Tx = .55 Univers Medium

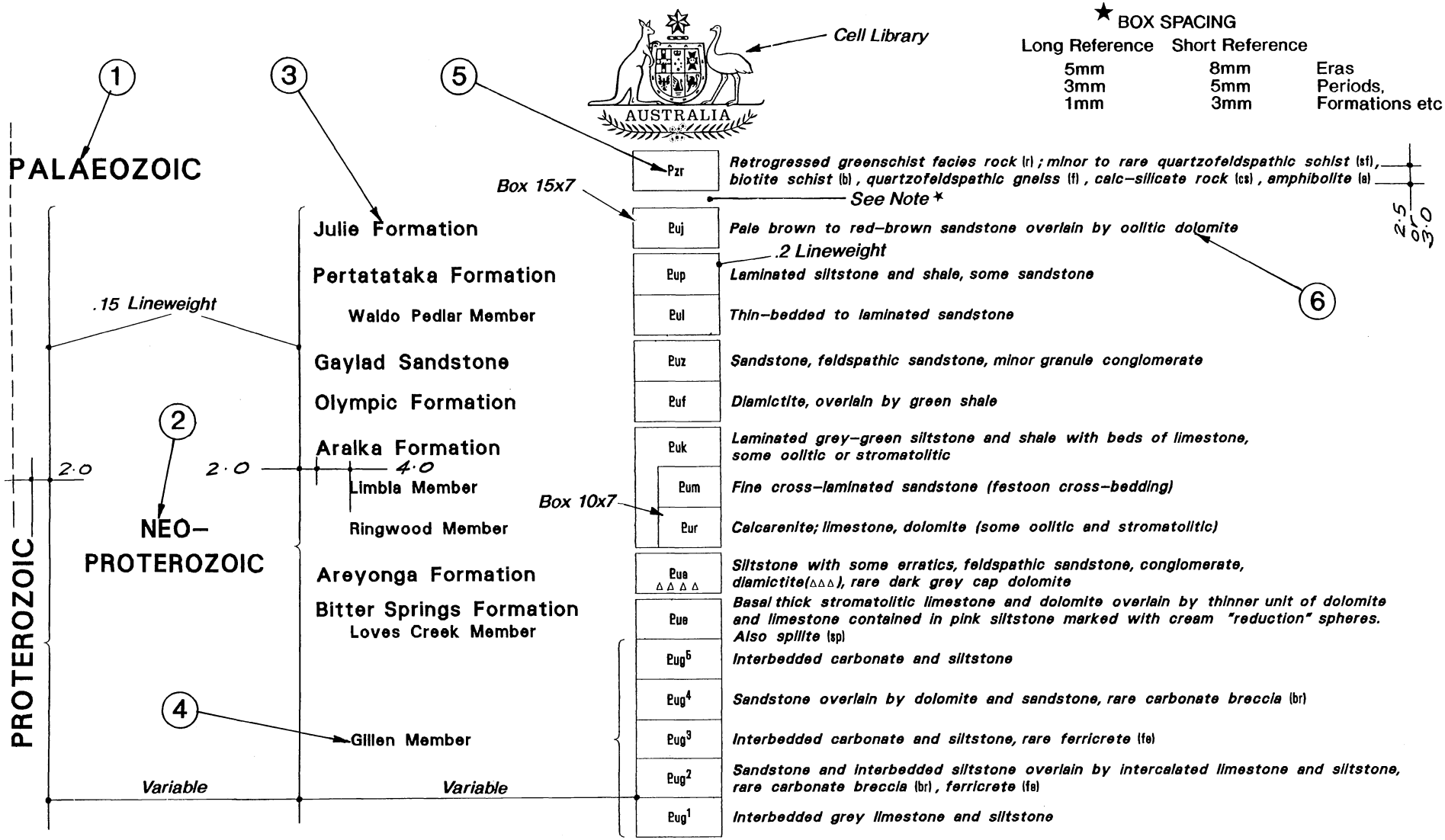
④ **FT 62** 1.7mm Tx = .17/Tx = .43 Univers Medium Condensed

⑤ **FT 65** 1.7mm Tx = .17/Tx = .43 Univers Medium Italic

⑥ **FT 64** 2.5mm Tx = .25/Tx = .63 Univers Medium

⑦ **FT 64** 3.3mm Tx = .33/Tx = .83 Univers Medium

ALL MEASUREMENTS ARE IN MILLIMETRES



① **FT 64** 3mm Tx = .3/Tx = .75 Univers Medium

② **FT 64** 2.5mm Tx = .25/Tx = .63 Univers Medium

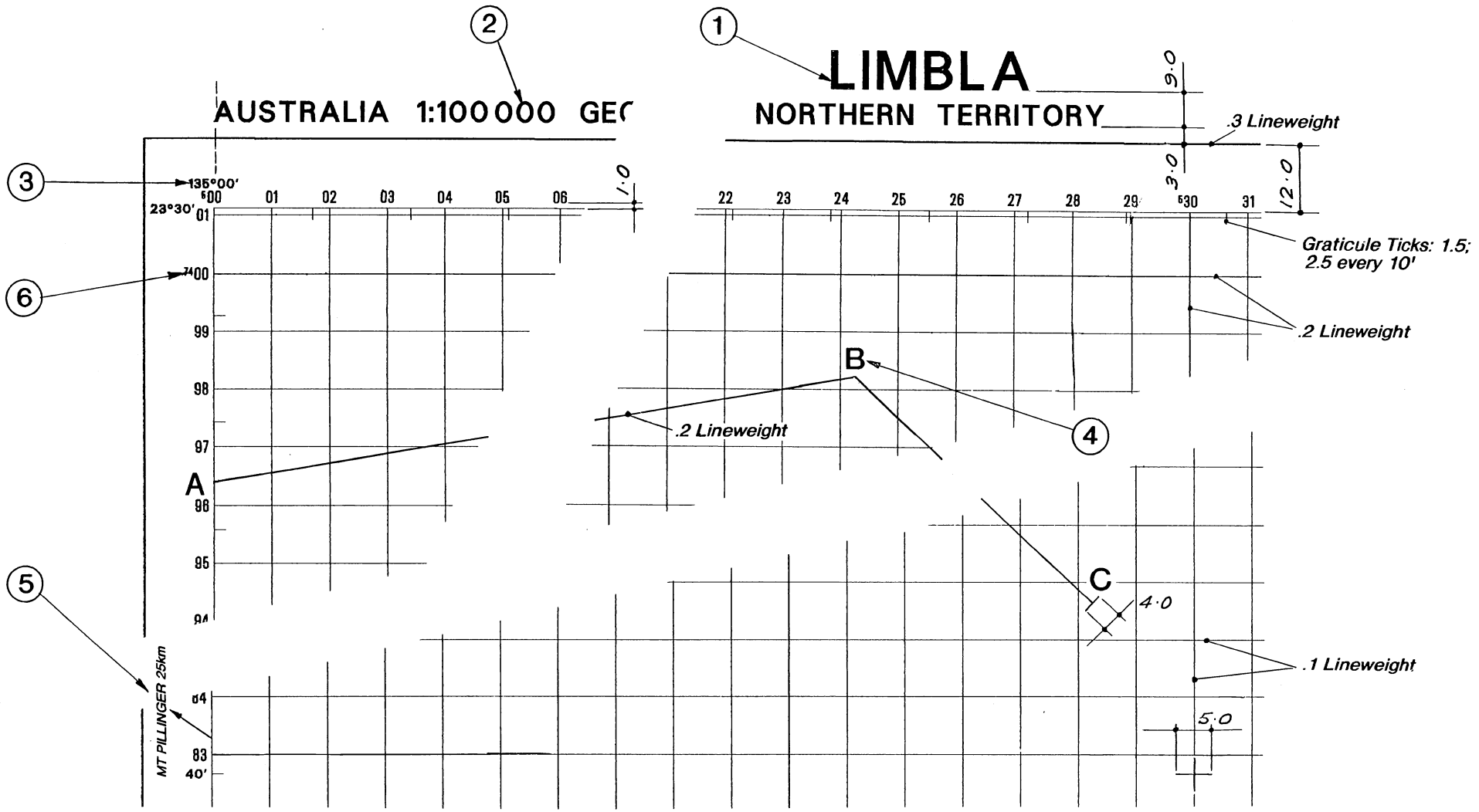
③ **FT 64** 2.2mm Tx = .22/Tx = .55 Univers Medium

④ **FT 64** 1.7mm Tx = .17/Tx = .43 Univers Medium

⑤ **FT 62** 1.7mm Tx = .17/Tx = .43 Univers Medium Condensed

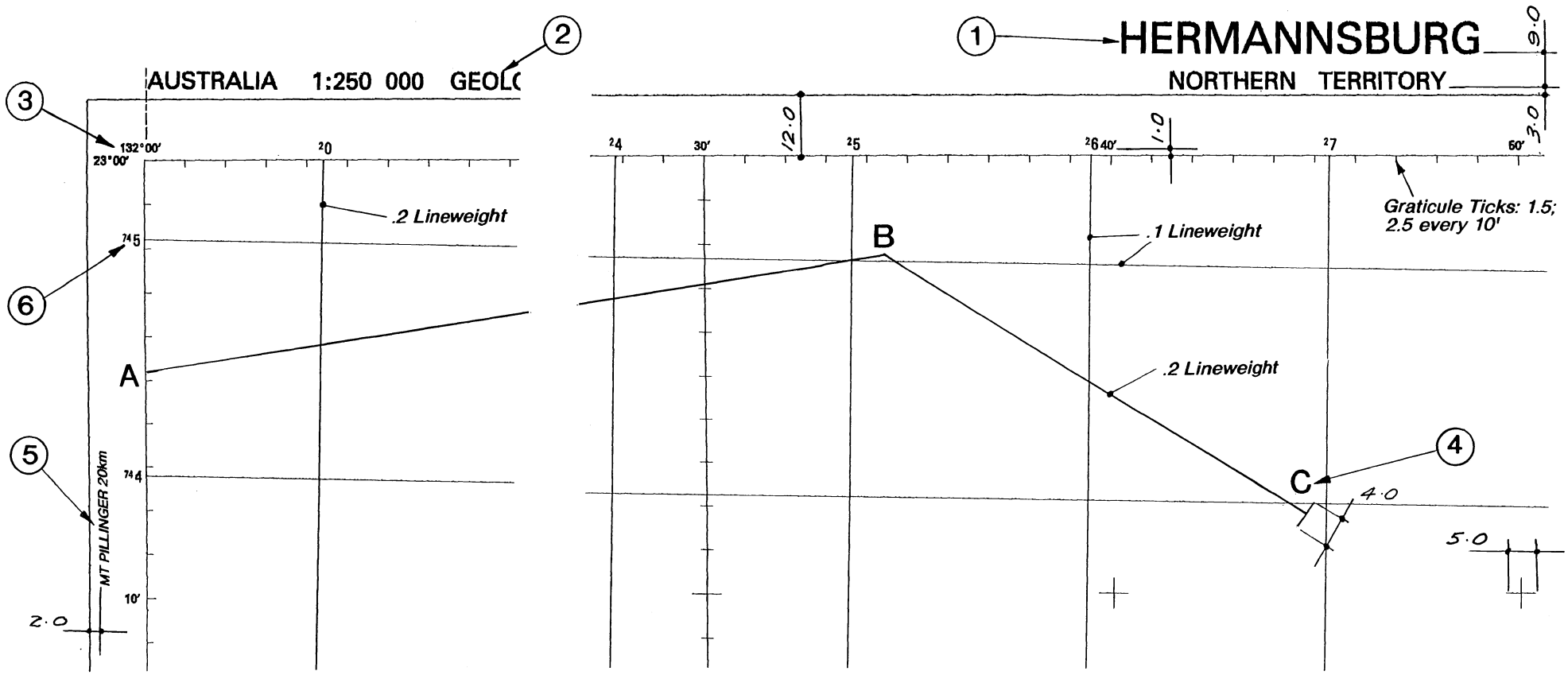
⑥ **FT 65** 1.7mm Tx = .17/Tx = .43 Univers Medium Italic

ALL MEASUREMENTS ARE IN MILLIMETRES



1. **FT 66** 6.5mm Tx = .65/Tx = 1.63 Univers Bold
2. **FT 64** 3.6mm Tx = .36/Tx = .9 Univers Medium
3. **FT 64** 2.0mm Tx = .2/Tx = .5 Univers Medium
4. **FT 64** 3.4mm Tx = .34/Tx = .85 Univers Medium
5. **FT 65** 1.5mm Tx = .15/Tx =.38 ("km" – Lower case) Univers Medium Italic
6. **FT 62** 1.0mm & 2.0mm Tx = .1 & .2/Tx = 2.5 & .5 Univers Medium Condensed

ALL MEASUREMENTS ARE IN MILLIMETRES



① **FT 66** 6.5mm Tx = .65/Tx = 1.63 Univers Bold

② **FT 64** 3.6mm Tx = .36/Tx = .9 Univers Medium

③ **FT 64** 2.0mm Tx = .2/Tx = .5 Univers Medium

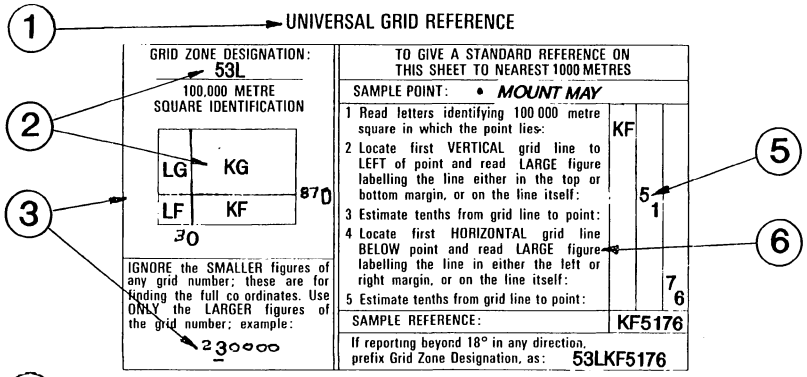
④ **FT 64** 3.4mm Tx = .34/Tx = .85 Univers Medium

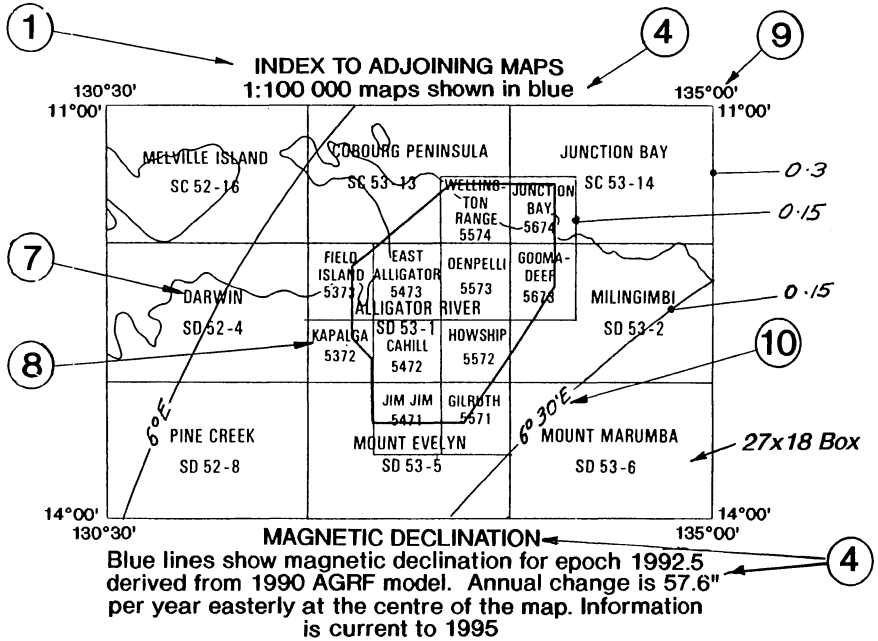
⑤ **FT 65** 1.5mm Tx = .15/Tx = .38 ("km" – Lower case) Univers Medium Italic

⑥ **FT 62** 1.0mm & 2.0mm Tx = .1 & .2/Tx = .25 & .5 Univers Medium Condensed

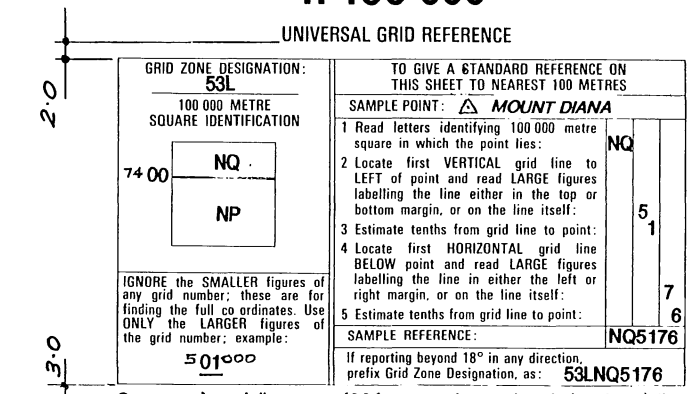
ALL MEASUREMENTS ARE IN MILLIMETRES

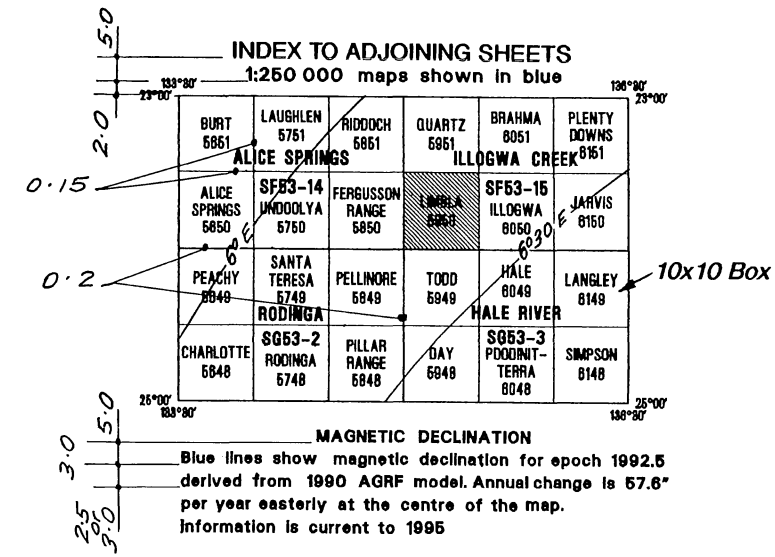
1:250 000





1: 100 000





(1) **FT 64** 2.2mm Tx = .22/Tx = .55 Univers Medium

(2) **FT 62** 1.9mm Tx = .19/Tx = .48 Univers Medium Condensed

(3) **FT 62** 1.3mm & 2.0 Tx = .13 & .2/Tx = .33 & .5 Univers Medium Condensed

(4) **FT 64** 1.7mm Tx = .17/Tx = .43 Univers Medium

(5) **FT 62** 1.4mm Tx = .14/Tx = .35 Univers Medium Condensed

(6) **FT 62** 1.6mm Tx = .16/Tx = .4 Univers Medium Condensed

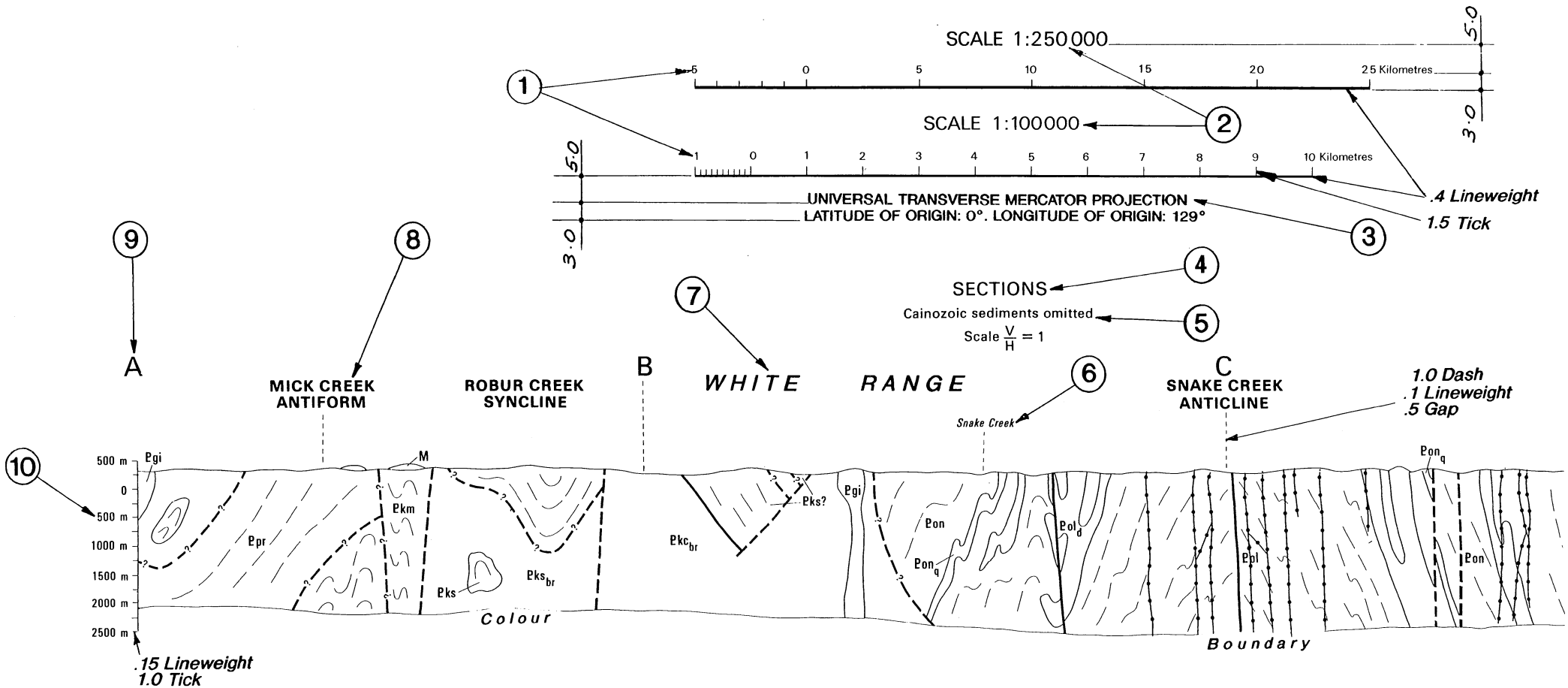
(7) **FT 62** 1.75mm Tx = .18/Tx = .44 Univers Medium Condensed

(8) **FT 62** 1.5mm Tx = .15/Tx = .38 Univers Medium Condensed

(9) **FT 62** 1.5mm Tx = .15/Tx = .38 Univers Medium Condensed

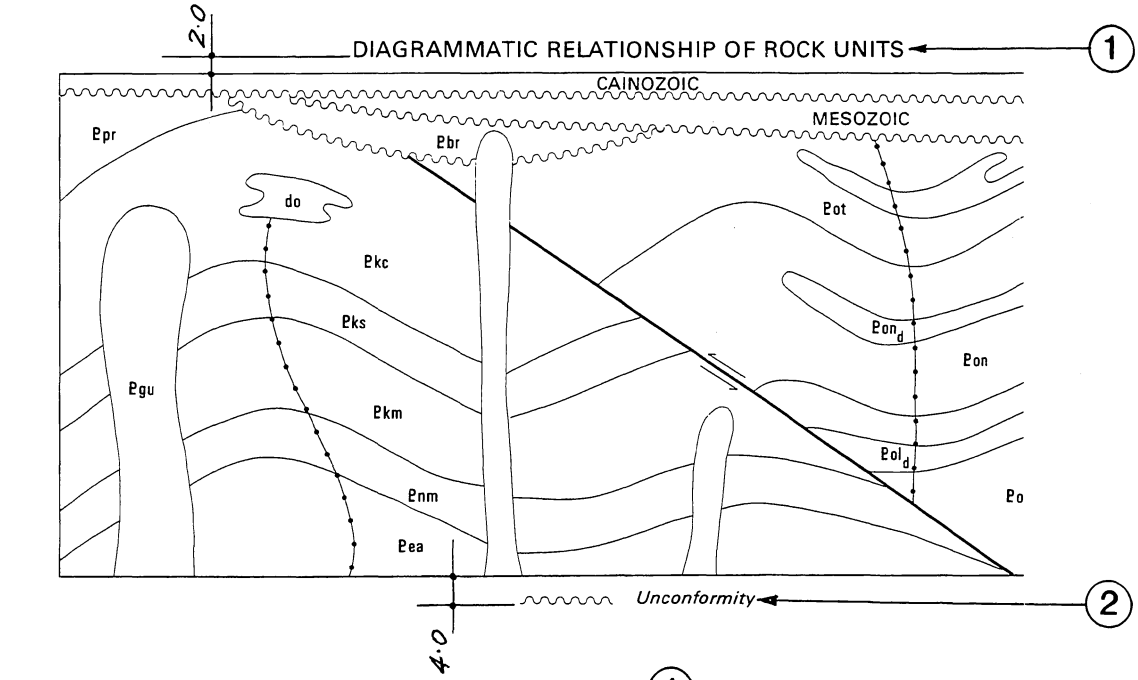
(10) **FT 63** 1.5mm Tx = .15/Tx =.38 Univers Medium Condensed Italic

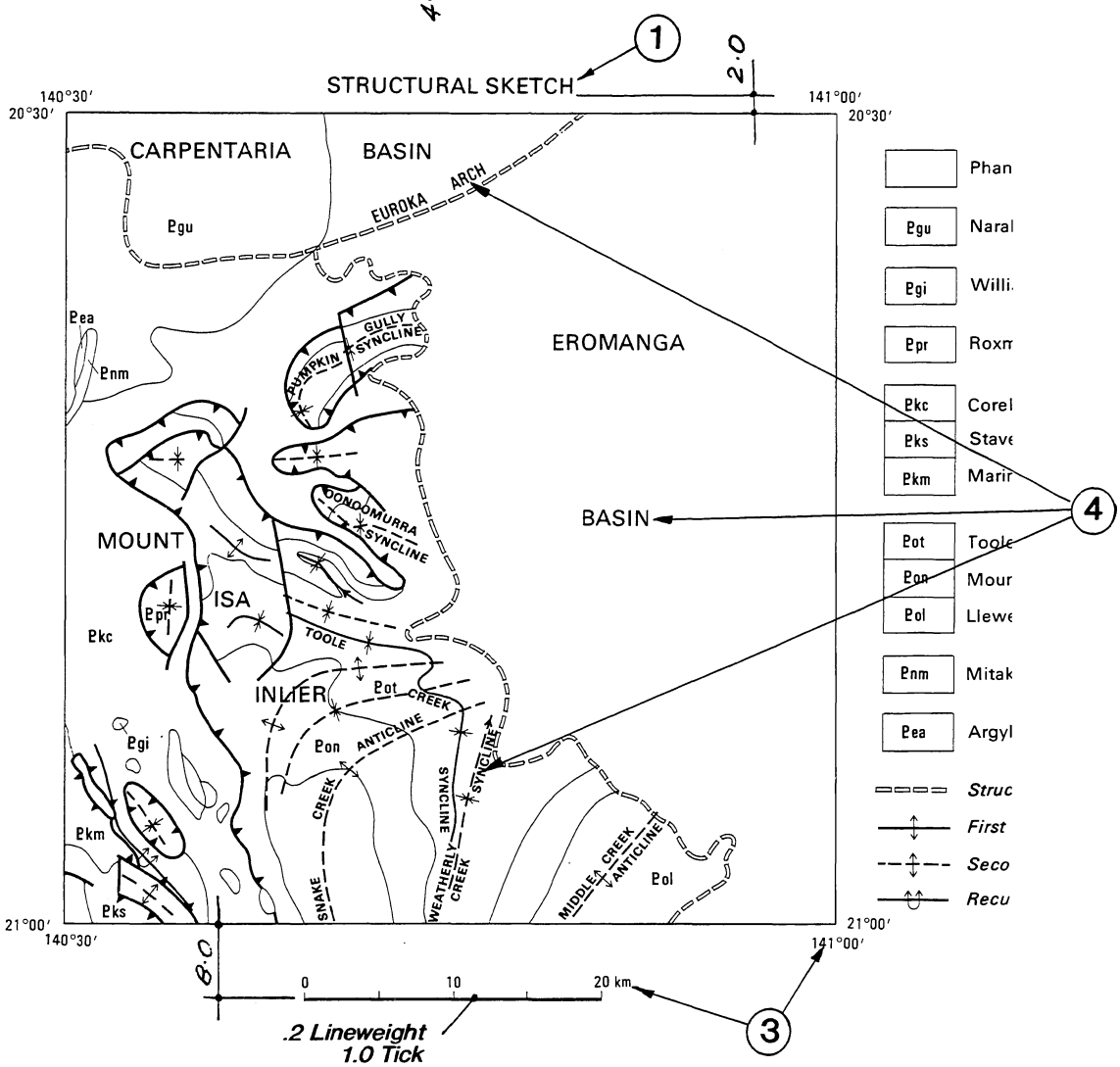
ALL MEASUREMENTS ARE IN MILLIMETRES



1. **FT 64** 1.8mm Tx = .18/Tx = .45 Univers Medium
2. **FT 64** 2.5mm Tx = .25/Tx = .63 Univers Medium
3. **FT 62** 2.0mm Tx = .2/Tx = .5 Univers Medium Condensed
4. **FT 64** 2.33mm Tx = .233/ Tx = .58 Univers Medium
5. **FT 64** 1.7mm Tx = .17/Tx = .42 Univers Medium
6. **FT 63** Variable size Univers Medium Condensed Italic
7. **FT 65** Variable size Univers Medium Italic
8. **FT 66** Variable size Univers Bold
9. **FT 64** 3.4mm Tx = .34/Tx = .85 Univers Medium
10. **FT 62** 1.5mm Tx = .15 Tx = .38 Univers Medium Condensed

ALL MEASUREMENTS ARE IN MILLIMETRES





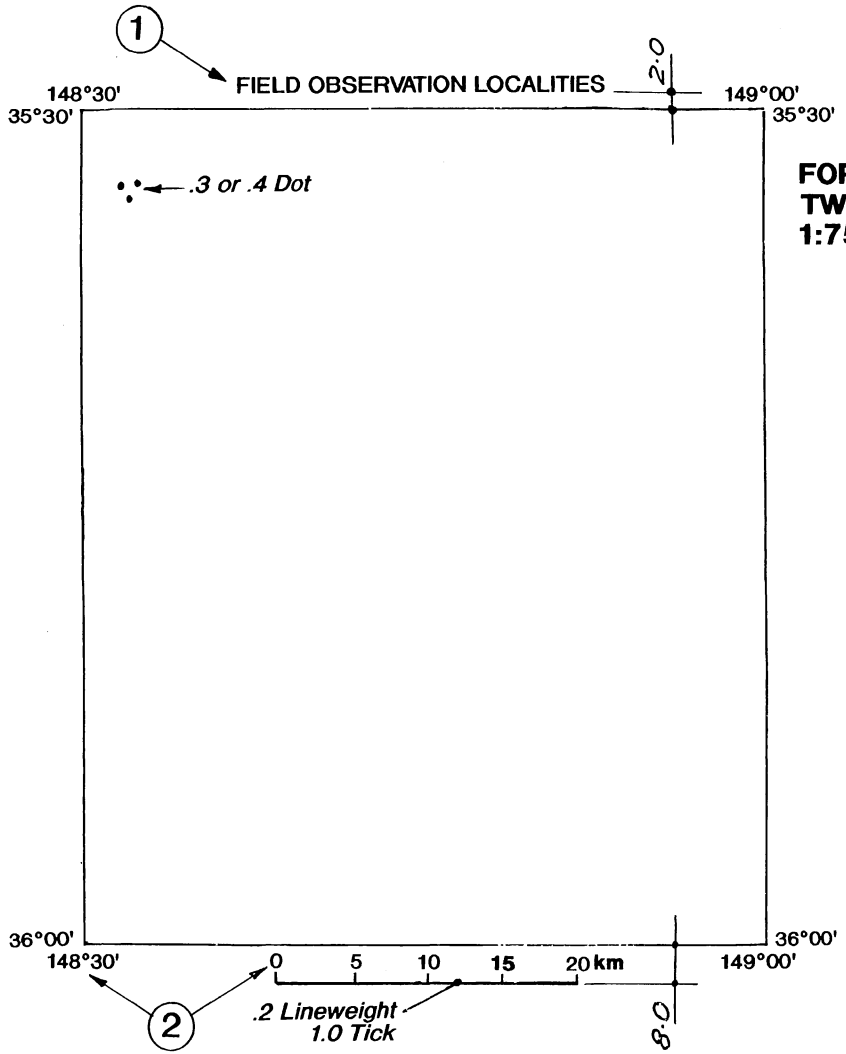
(1) **FT 64** 2.2mm Tx = .22/Tx = .55 Univers Medium

(2) **FT 65** 1.7mm Tx = .17/Tx = .43 Univers Medium Italic

(3) **FT 62** 1.5mm Tx = .15/Tx = .38 Univers Medium Condensed

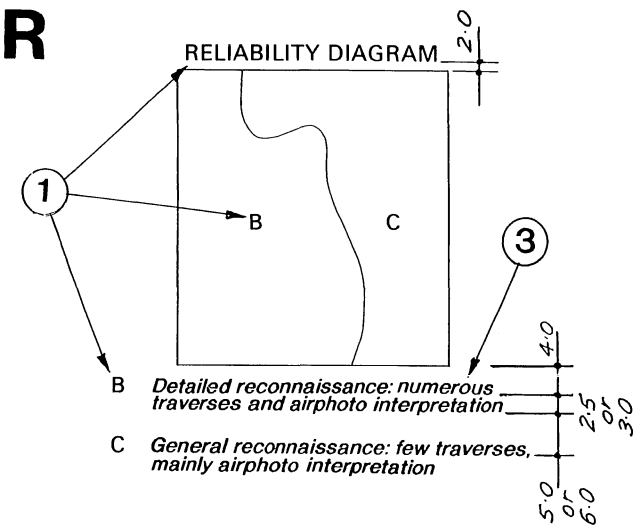
(4) Same FONT as on map face but size variable depending on detail

ALL MEASUREMENTS ARE IN MILLIMETRES



FOR FIELD OBSERVATION LOCALITIES MAPS TWO SCALES ARE AVAILABLE (1:500 000 and 1:750 000) DEPENDING ON DENSITY OF DOTS

O R

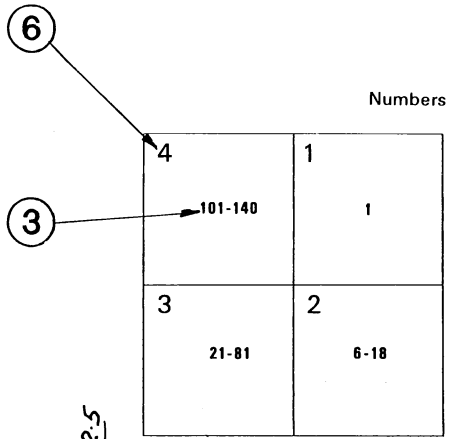


(1) **FT 64** 2.2mm Tx = .22/Tx = .6 Univers Medium

(2) **FT 62** 1.5mm Tx = .15/Tx = .38 Univers Medium Condensed

(3) **FT 65** 1.7mm Tx = .17/Tx = .43 Univers Medium Italic

ALL MEASUREMENTS ARE IN MILLIMETRES



MINING AND LEASE INDEX

Numbers refer to location on map. Where space insufficient, groups are represented by a single number, e.g. **48**

1		Rc
6	MLT	Cu
7		Cu
8	Victory	Cu, Au
9		Cu
10	Elma *pd*	Cu
11		Cu
12	Bosca	Cu, (Au?)
13	Holly	Au
14	Kingfisher *pd*	Cu, Au
15	Castle Hill	Au, Cu
16	Corbetts Gully	Cu, Au
17	Ace	Cu
18	Golden Plum	Au, (Cu?)
21	Notlor	Cu
22		Cu
23	Kilmarnock Group	Cu
24		Cu
25	Gilded Rose	Au, Cu
26	Flat Top	Cu
27	Good Faith, Mugs for Luck *pd*	Au
28	The Pinnacles	Au, Cu?
29		Au, Cu
30	Hetty Jane *pd*	Cu
31		Cu, Ls
32	Marimo	Ls
33	Brilliant	Cu, Au, W
		Bi, Im
34		Cu
35	IXL	Cu
36		Cu
37	Lady Norman	Cu
38	Wallace *pd*	Cu, Au
39	Lucky Spot *pd*	Cu, (Pb?)
40	The Python *pd*	Cu
41	Dromedary *pd*	Cu
42	Montana	Cu, Au
43	Columbia	Cu
44	Elder *pd*	Au
45	Lady Michelle *pd*	Cu
46	Mountain Queen	Cu
47	The Laird	Au
48	The Joker	Cu
49		Cu
50	Mount Dawson	Cu, Au
51		Au
52	Mount Fate	Cu, (Au?)
53		Cu
54	Mountain Home	Cu, Au
55	Parthian	Cu
56	Copper Canyon	Cu, U
57	Robur North	Cu
58	Robur	Cu
59	Dodge	Cu
60		Cu
61	Duchenese	Cu
62	Bluebell	Cu
63	Lady Margaret?	Cu
64	Just Found, Iron Boss	Cu, Fe
65	Barbara *pd*	Cu
66	Lomas	Cu
67		Cu
68		Cu
69		Cu
70	The Jewel	Cu
71		Cu
72	Falcon	Au, W
73	Weatherly	Cu
74	Mount Scheelite	W
75	Comstock	Au, W
76		Cu?
77	Iron Duke	Au
78	Mount Freeda Group	Au
79	Evening Star (Mount Wheeler?)	Cu
80	Canteen	Au, Cu
81		Au
101	Australian Margaret	Cu
102	Monakoff	U, Cu, Zn
103	Merry Widow	Cu
104	Last Chance	Cu
105	Jasper (Block 14)	Cu
106	First Hope	Ls, Cu
107	The Mill Mine	Cu
108	Cloncurry Surprise	Cu
109		Cu
110	Eagle Hawk	Cu
111	Crows Nest	Cu
112	Carmie	Cu
113		Cu
114		Cu?
115	Pumpkin Gully	Au
116	Homeward Bound	Cu
117	Raleigh Heights	Cu
118		Cu
119	Copper Quarry	Cu
120	Burnleigh	Cu
121		Cu
122		Cu
123		Au
124		Cu
125		Cu
126	Silver Glance	Cu
127	Uncle Tom *pd*	Cu
128		Au, Cu
129	Musical Union	Cu
130	King Edward *pd*	Cu
131	Herbert *pd*	Cu
132	Eastern Star	Cu
133		Au
134	Great Australia	Cu, Au
135		Rc
136	Lady Mina	Cu
137	Hot Rocks	U
138	Cascade *pd*	Cu
139	Leander *pd*	Cu
140	Tanbah	Cu

3.0

3.0

(1) **FT 64** 1.7mm Tx = .17 / Tx = .43 Univers Medium

(2) **FT 64** 2.2mm Tx = .22 / Tx = .55 Univers Medium

(3) **FT 68** 1.7mm Tx = .17 / Tx = .43 Univers Bold Condensed

(4) **FT 63** 1.7mm Tx = .17 / Tx = .43 Univers Medium Condensed Italic

(5) **FT 64** 1.7mm Tx = .17 / Tx = .43 Univers Medium

(6) **FT 64** 2.3mm Tx = .23 / Tx = .58 Univers Medium

ALL MEASUREMENTS ARE IN MILLIMETRES

Geology 1951–1959 by R.A. Ruker, M.A Randal
J.H. Rattigan, A.B. Clarke, P.R. Dunn,
R. Ryan, B.P. Walpole, B.J. Drew, AGSO
1982 by R.S. Needham, P.G. Stuart-Smith, AGSO
L. Bagas, B.A. Whitehead, G. Sales,
C.A. Mulder, NTGS; C. Imri, Indonesian
Geological Survey
1990–1992 by I.P. Sweet, P.E Pieters, I.H. Crick,
AGSO; P.D. Kruse, T.L. Madigan, NTGS;
K.A.A. Hein, University of Tasmania
Compiled 1991–1992 by P.D. Kruse NTGS; D.M. Pillinger,
I.P Sweet, P.E. Pieters, I.H. Crick, AGSO
Cartography by J. Gallagher, P. Moffat, J. Mason, AGSO
Edited by D.H. Blake, D.M. Pillinger, AGSO
Produced by AGSO Cartographic Services Unit using
Intergraph graphics applications
Printed by Mercury-Walch Pty Ltd, Hobart, Australia

2.5 or 3.0

Published by the Australian Geological Survey Organisation, Department of Primary Industries and Energy, Canberra, Australia. Prepared in collaboration with the Northern Territory Geological Survey, Department of Mines and Energy. Issued under the authority of the Minister for Primary Industries and Energy. Base map compiled by AGSO from 1:250 000 scale topographic map supplied by the Royal Australian Survey Corps *

This map is accompanied by a text publication:
Kruse, P.D., et al 1994, Katherine, Northern Territory – 1:250 000 Geological Series. *Northern Territory Geological Survey, Explanatory Notes* SD/53-9

(2) It is recommended that this map be referred to as: Sweet, I.P., et al, 1994 *Katherine* Second Edition (1:250 000 scale geological map) Australian Geological Survey Organisation, Canberra

Copies of this map and the accompanying Explanatory Notes may be obtained from:

AGSO Sales Centre,
GPO Box 378,
Canberra, ACT 2601
PH (06) 249 9519, Fax (06) 249 9982

or

Geoscience Resources Section,
Northern Territory Geological Survey,
GPO Box 2901,
Darwin, NT 0801
Ph (089) 895 281, Fax (089) 896 824

**Alternative note if AUSLIG base material utilised:*

Base map compiled by AGSO from 1:100 000 scale topographic maps supplied by the Australian Surveying and Land Information Group, Department of Administrative Services
Topographic base information © AUSLIG 1994

(1) **FT 64** 1.7mm Tx = .17/Tx = .43 Univers Medium

(2) **FT 65** 1.7mm Tx = .17/Tx = .43 Univers Medium Italic

ALL MEASUREMENTS ARE IN MILLIMETRES

Composite Regolith–Geology maps only

DIGITAL DATA

Map data are stored digitally in both Intergraph design file format (IGDS) and topologically structured ARC/INFO export format. These formats may be suitable for transfer to other digital systems. Regolith landform unit descriptions for regolith map polygons, and site data for both regolith and geological maps, are stored in Oracle relational databases – RTMAP for regolith maps, and NGMA Field Database for geological maps. Map information can be purchased from AGSO as hardcopy plots and as digital datasets. Information on formats, release conditions, and costs are available from AGSO Sales Centre

2.5 or 3.0

Regolith maps only

1

DIGITAL DATA

Map data are stored digitally in both Intergraph design file format (IGDS) and topologically structured ARC/INFO export format. These formats may be suitable for transfer to other digital systems. Regolith landform unit descriptions for polygons, and regolith site data are stored in an Oracle relational database – RTMAP. Map information can be purchased from AGSO as hardcopy and as digital datasets. Information on formats, release conditions, and costs are available from AGSO Sales Centre

2

Geology maps only

DIGITAL DATA

Map data are stored digitally in both Intergraph design file format (IGDS) and topologically structured ARC/INFO export format. These formats may be suitable for transfer to other digital systems. Detailed site data are stored in the Oracle NGMA Field Database. Map information can be purchased from AGSO as hardcopy plots and as digital datasets. Information on formats, release conditions, and costs are available from AGSO Sales Centre

Geophysics – use where applicable

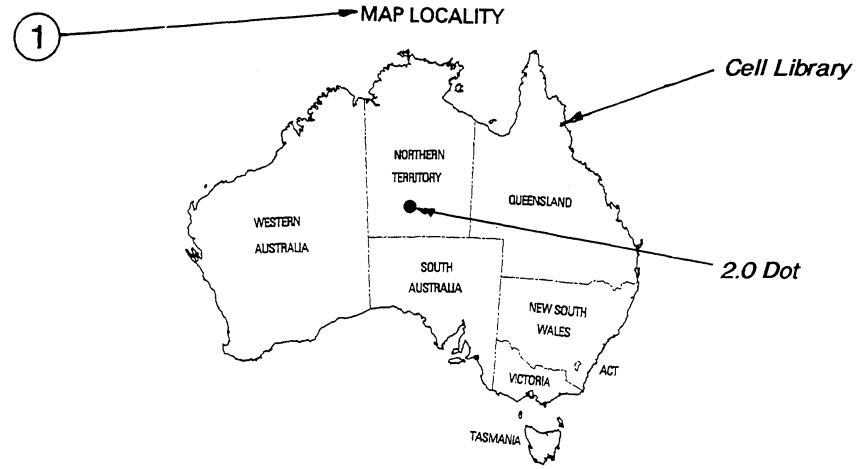
DIGITAL DATA

The digital magnetic/gamma-ray/gravity data on which this interpretation is based may be obtained from the Geophysical Mapping Section, AGSO
Ph (06) 249 9223, Fax (06) 249 9986

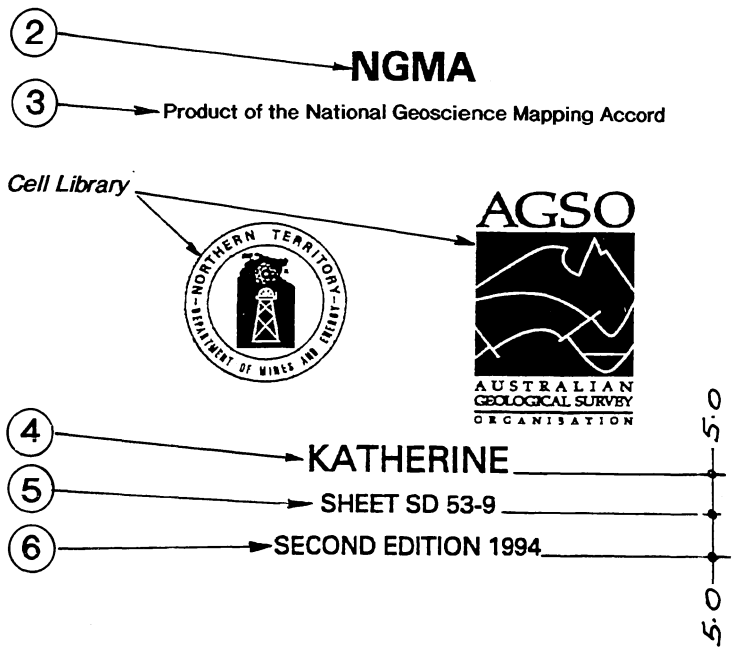
(1) **FT 64** 2.2mm Tx = .22/Tx = .6 Univers Medium

(2) **FT 64** 1.7mm Tx = .17/Tx = .43 Univers Medium

ALL MEASUREMENTS ARE IN MILLIMETRES



(1) **FT 64** 2.2mm Tx = .22/Tx = .6 Univers Medium



(2) **FT 66** 3.6mm Tx = .36/Tx = .9 Univers Bold

(3) **FT 64** 1.7mm Tx = .17/Tx = .43 Univers Medium

(4) **FT 64** 3.6mm Tx = .36/Tx = .9 Univers Medium

(5) **FT 64** 2.3mm Tx = .23/Tx = .58 Univers Medium

(6) **FT 64** 1.9mm Tx = .19/Tx =.48 Univers Medium

ALL MEASUREMENTS ARE IN MILLIMETRES

MISCELLANEOUS

Feature	Type Description		Size 1:100 000 1:250 000	Example
Geological letter symbols – single – double decker – with sub or superscript	Univers Medium Condensed	**FT 62**	1.5mm – 1.7mm Tx = .15 – .17 Tx = .38 – .43	Czs Czs $\frac{Tpf}{Jkm}$ Jkm_{1b}
Values for dips, plunges, lineations etc	Univers Medium Condensed Italic	**FT 63**	1.2mm Tx = .12 Tx = .3	*15*
Dyke or vein composition, mineral abbreviations etc	Univers Bold Condensed	**FT 68**	1.5mm – 1.7mm Tx = .15 – .17 Tx = .38 – .43	q fe dl
Mineral abbreviations (ie Mines)	Univers Bold Condensed	**FT 68**	1.5mm Tx = .15 Tx = .38	Au Sn
Mining areas, oil and gas fields, basin and dome names, outliers etc	Univers wide spaced if Bold necessary Condensed	**FT 68**	1.5mm Tx = .15 Tx = .38	MOROBE GOLDFIELD
Oil or gas wells, drillholes etc	Univers Bold Condensed	**FT 68**	1.5mm Tx = .15 Tx = .38	UNOIL Warri 1
Drillhole classification	Univers Medium Condensed	**FT 62**	1.5mm Tx = .15 Tx = .38	DD St
Mine and prospect names	Univers Medium Condensed	**FT 62**	1.5mm Tx = .15 Tx = .38	El Dorado
Fossil, specimen and age determination reference numbers	Univers Medium	**FT 64** **FT 68**	1.6mm Tx = .16 Tx = .4	5 C326
Age determination values	Univers Medium Italic	**FT 65**	1.5mm Tx = .15 Tx = .38	*430 ± 9*
Descriptive geological notes – map face – sections	Univers Medium Italic	**FT 65**	1.5mm Tx = .15 Tx = .38	*Minor Czs* *Undivided Proterozoic*
Faults and folds – map face – section – structural map	Univers Bold, Univers Medium	**FT 64** **FT 66**	1.3mm – 2.4mm Tx = .13 – .24 Tx = .32 – .6	DUMMER FAULT
Fault movement – up, down	Univers Medium Condensed	**FT 62**	1.5mm Tx = .15 Tx = .38	U D
Fold axis designation	Univers Medium Condensed	**FT 62**	1.3mm Tx = .13 Tx = .32	FA
Cross stratification Assymetrical ripple marks	Times Roman	**FT 6**	1.5mm Tx = .15 Tx = .38	x r
Kink cleavage	Univers Medium	**FT 64**	1.3mm Tx = .13 Tx = .32	k
Bouguer gravity contour	Univers Medium Italic	**FT 65**	1.4mm Tx = .14 Tx = .35	*+300*
Position doubtful, position approximate, abandoned	Univers Medium Condensed Italic	**FT 63**	1.4mm Tx = .14 Tx = .35	*pd pa abd*
Waterhole, rockhole, earth tank or dam, water tank, water storage	Univers Medium Condensed Italic	**FT 63**	1.5mm Tx = .15 Tx = .38	*WH E S*

POSITIONING OF TYPE

1. GENERAL

1.1 Purpose and Scope:—

To provide general rules for the positioning of type

1.2 Importance of Correct Positioning:—

1.2.1 The importance of correct positioning of names cannot be over emphasised.

1.2.2 The skilful and artistic arrangement of names not only enhances the appearance of the published map but also improves the clarity of the map and obviates ambiguity in relation to the features named.

2. RULES FOR THE POSITIONING OF TYPE

2.1 General

2.1.1 In general, lettering should be written across the map from left to right in lines parallel to east-west grid lines.

2.1.2 Names of fixed features and those most difficult to arrange should be placed first and others arranged to suit the remaining available space.

2.1.3 Writing positioned vertically on the map will read from the lower sheet edge towards the top of the map when viewed from the right hand side.

When the line of writing diverges from the vertical then the wording will read from left to right. (See figure 1).

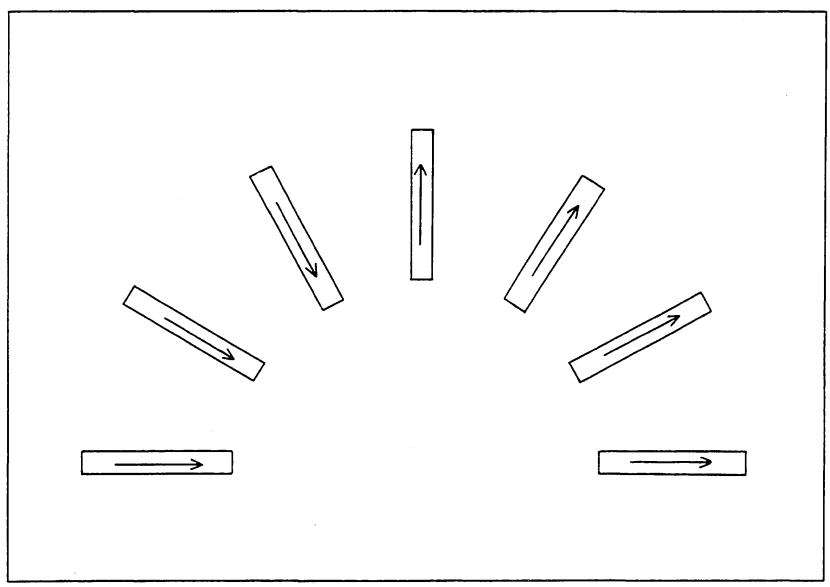


Figure 1

2.2 Fixed Features

2.2.1 Where practicable the names of fixed features such as towns, villages, etc., should be placed to the right of the symbol.

2.2.2 If this is not possible, then to the left of the feature, a third choice of position being in close association. (See figure 2).

2.2.3 Names associated with circular symbols should be placed with sufficient space between symbol and name to avoid confusion with letters and symbols, or slightly off line, which will achieve the same purpose.

2.2.4 A name written on the straight diagonal has a 'harshness' in appearance and this form will not be used.

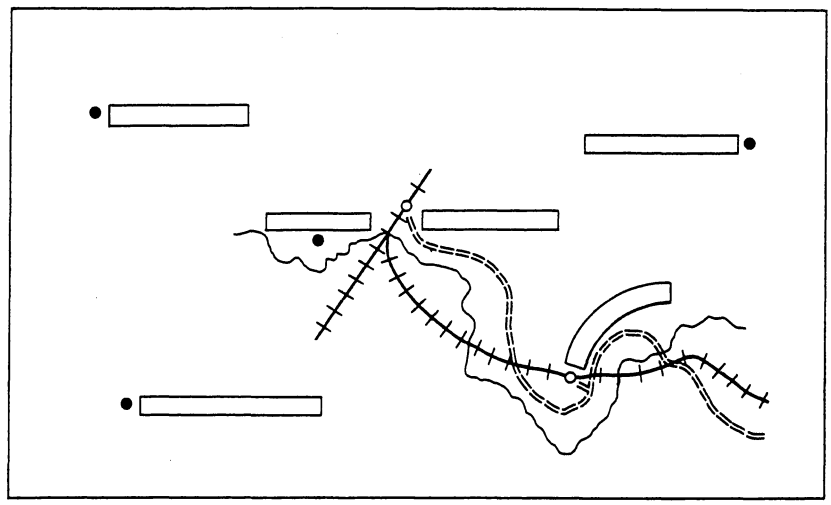


Figure 2

2.3 Linear Features

2.3.1 The names of linear features such as rivers, roads, etc., will be positioned where practical on one side of and above the symbol to read from left to right. Only when placement is not possible above such symbols may names be placed below.

2.3.2 The names of linear features having complex shapes will be aligned along simple curves rather than closely parallel to the irregularities of the feature. (See figure 3).

2.3.3 Words in multiple notations and names, including those of 'linear' features should not be too widely spaced. They should be in blocks, in a straight line or along simple curves. If the words are too widely spaced or if they are disjointed in alignment, continuity may be lost altogether.

2.3.4 Names of long 'linear' features will be repeated at sufficient intervals to maintain clarity of the named feature.

2.3.5 Major mountain ranges may be shown in spaced type, but not so widely spaced as to appear disjointed.

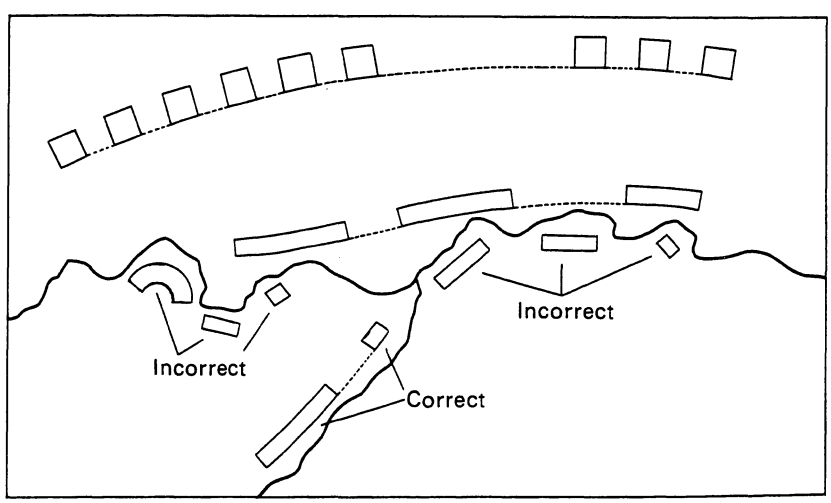


Figure 3

2.4 Area Features

2.4.1 Area features will, as far as is practicable, be labelled parallel to the east-west grid lines.

2.4.2 Where an area is long and narrow the labelling may follow the general direction of the feature.

2.4.3 Names of large area features may be shown in spaced type as illustrated in figure 4.

2.4.4 Notes relating to boundaries of areas will appear along the boundary symbol and inside the area to which they apply.

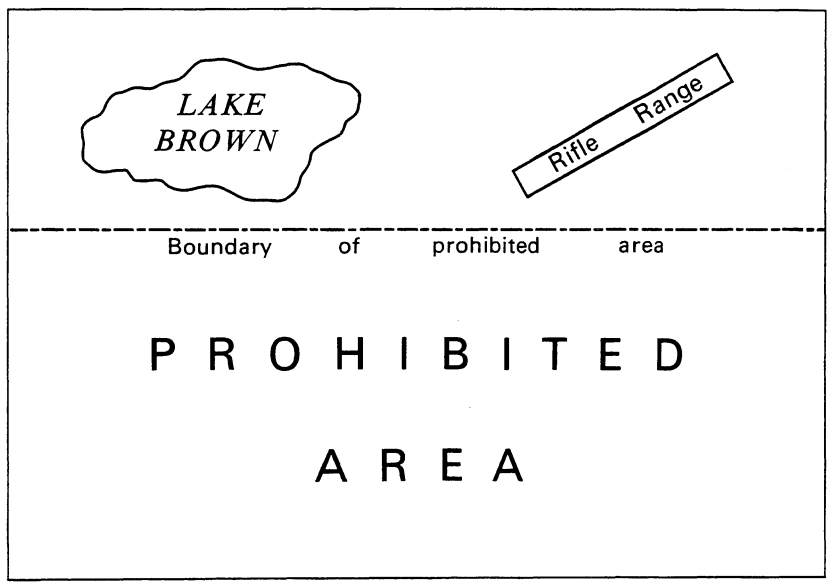


Figure 4

CULTURAL FEATURES

Feature	Type Description	Size 1:100 000 1:250 000	Example
ROADS AND RELATED FEATURES			
Principal road and highway names.	Univers Medium Italic **FT 65**	1.4mm Tx = .14 Tx = .35	*HUME HIGHWAY*
Other road names.		1.2mm Tx = .12 Tx = .3	*COOMINGLAN ROAD*
Road descriptions.	Univers Medium Condensed Italic **FT 63**	1.4mm Tx = .14 Tx = .35	*Under construction*
Ford or ferry.			*Ford*
Causeway.			*Causeway*
Named bridge.	Univers Medium Condensed **FT 62**	1.3mm Tx = .13 Tx = .33	Indi Bridge
RAILWAYS AND RELATED FEATURES			
Station names.	Univers Medium Condensed **FT 62**	1.6mm Tx =.16 Tx = .4	Young
Siding names.		1.4mm Tx = .14 Tx = .35	Nester Brook
Aerial cableways, ski lifts, conveyor belts and similar features.	Univers Medium Condensed Italic **FT 63**	1.4mm Tx = .14 Tx = .35	*Ski lift*
AERODROMES			
Airport.	Univers Medium Condensed **FT 62**	1.9mm Tx = .19 Tx = .48	Kingsford Smith Airport
Airfield and landing ground.		1.6mm TX = .16 Tx = .4 1.4mm Tx = .14 Tx = .35	Munyang Airfield Wambrook Landing Ground
Landing ground, unnamed	Univers Medium Condensed Italic **FT 63**	1.4mm Tx = .14 Tx = .35	*Landing ground*

CULTURAL FEATURES

Feature	Type Description	Size 1:100 000 1:250 000	Example
POPULATED PLACES AND BUILDINGS			
Capital cities.	Univers Medium Condensed FT 62	3.4mm Tx = .34 Tx = .85	SYDNEY
City (50,000 and above).		2.9mm Tx = .29 Tx = .73	WOLLONGONG
City (15,000 to 50,000).			Goulburn
Town (1,000 to 15,000).		2.4mm Tx = .24 Tx = .6	Queanbeyan
Town or village (up to 1,000).		1.9mm Tx = .19 Tx = .47	Hall
Locality names.		1.4mm Tx = .14 Tx = .35	Sutton
Homestead names Sparsely settled areas.	Times Roman FT 6	1.4mm Tx = .14 Tx = .35 1.6mm Tx = .16 Tx = .4	The Willows The Willows
Closely settled areas.		1.2mm Tx = .12 Tx = .3	The Willows
Named buildings and landmark objects.	Univers Medium Condensed FT 62	1.4mm Tx = .14 Tx = .35	Dookie Agricultural College
Descriptive notes, e.g., tower, ruins, etc.	Univers Medium Condensed Italic FT 63	1.4mm Tx = .14 Tx = .35	*Sawmill* *Ruins*
LINEAR FEATURES			
Descriptive notes, e.g., pipelines (other than water), vermin proof fence, etc.	Univers Medium Condensed Italic FT 63	1.4mm Tx = .14 Tx = .35	*Pipelines*
AREA AND OTHER FEATURES			
Named golf courses, mining areas, race courses and similar features.	Univers Medium Condensed FT 62	1.4mm Tx = .14 Tx = .35	Federal Golf Course
Descriptive notes: Cemetery, golf course, mining area, quarry, racecourse, etc.	Univers Medium Condensed Italic FT 63	1.4mm Tx =.14 Tx = .35	*Cemetery* *Spoil area*

CULTURAL FEATURES

Feature	Type Description	Size 1:100 000 1:250 000	Example
AREA AND OTHER FEATURES (Continued)			
Named factories, oil refineries, power stations, saw mills and similar features.	Univers Medium Condensed **FT 62**	1.4mm Tx = .14 Tx = .35	Cooloowye Power Station
		1.6mm Tx = 1.6 Tx = .4	Guthega Power Station
Descriptive notes, e.g., Dry dock, oil well, oil pipeline, sewage disposal bed, filtration bed, etc.	Univers Medium Condensed Italic **FT 63**	1.4mm Tx = .14 Tx = .35	*Sewerage treatment works*
Aboriginal reserves, national parks, state forests and similar features.	Univers Medium **FT 64**	1.4mm Tx = .14 Tx = .35	NORTH WEST ABORIGINAL
		1.9mm Tx = .19 Tx = .48	NORTH WEST ABORIC
		2.4mm Tx = .24 Tx = .6	NORTH WEST AB
		2.9mm Tx = .29 Tx = .73	NORTH WEST
		3.4mm Tx = .34 Tx = .85	NORTH WES
BOUNDARIES			
State names along boundaries.	Univers Medium **FT 64**	2.5mm Tx = .25 Tx = .63	V I C T O R I A
Minor administrative boundary and prohibited area boundary descriptions.	Univers Medium Italic **FT 65**	1.4mm Tx = .14 Tx = .35	*Approximate boundary of aboriginal reserve* *Boundary of prohibited area*
CONTROL DATA			
Heights of trigonometrical stations or spot elevations.	Univers Medium **FT 64**	1.4mm Tx = .14 Tx = .35	792

RELIEF FEATURES

Feature	Type Description	Size 1:100 000 1:250 000	Example
CONTOURS			
Contour values.	Univers Medium Italic **FT 65**	1.4mm Tx = .14 Tx = .35	160
RELATED FEATURES			
Mountain ranges.	Univers Medium Italic **FT 65**	1.4mm Tx = .14 Tx = .35	BLUE RANGE
		1.9mm Tx = .19 Tx = .48	BLUE RANGE
		2.4mm Tx = .24 Tx = .6	BLUE RANGE
		2.8mm Tx = .28 Tx = .7	BLUE RANGE
		3.4mm Tx = .34 Tx = .85	BLUE RANGE
Crests, knobs, hills, peaks, mountains and similar features.		1.4mm Tx = .14 Tx = .35	Yellow Peak
			MOUNT BLACK
		1.9mm Tx = .19 Tx = .48	MOUNT BLACK
Gaps, hollows, valleys and similar features.		1.4mm Tx = .14 Tx = .35	Yellow Gap
			YELLOW GAP
		1.9mm Tx = .19 Tx = .48	YELLOW GAP
Deserts, plains, plateaus and similar features.		1.4mm Tx = .14 Tx = .35	Mundi Plain
		1.9mm Tx = .19 Tx = .48	Mundi Plain
			MUNDI PLAIN
		2.4mm Tx = .24 Tx = .6	MUNDI PLAIN
		2.8mm Tx =.28 Tx = .7	MUNDI PLAIN
		3.4mm Tx = .34 Tx = .85	MUNDI PLAIN
		3.9mm Tx = .39 Tx = .98	MUNDI PLAIN
		4.2mm Tx =.42 Tx = 1.1	MUNDI PLA
Descriptive notes.	Univers Medium Condensed Italic **FT 63**	1.4mm Tx = .14 Tx = .35	Low sandhills
		1.9mm Tx = .19 Tx = .48	Low sandhills

HYDROGRAPHIC FEATURES

Feature	Type Description	Size 1:100 000 1:250 000	Example
FORESHORE AND OFFSHORE FEATURES			
Oceans, seas, gulfs, straits and other similar hydrographic features.	Univers Medium Italic **FT 65**	2.4mm Tx = .24 Tx = .6	*INDIAN OCEAN*
		2.9mm Tx = .29 Tx = .73	*INDIAN OCEA*
		3.4mm Tx = .34 Tx = .85	*INDIAN OCI*
		3.9mm Tx = .39 Tx = .98	*INDIAN O*
		4.2mm Tx = .42 Tx = 1.05	*INDIAN C*
		4.8mm Tx = .48 Tx = 1.2	*INDIAN*
		5.8mm Tx = .58 Tx = 1.45	*INDIAN*
Ports, harbours, bays, inlets and similar features.	Univers Medium Condensed Italic **FT 63**	1.6mm Tx = .16 Tx = .4	*Port Phillip*
		1.9mm Tx = .19 Tx = .48	*Port Phillip*
			PORT PHILLIP
		2.4mm Tx = .24 Tx = .6	*PORT PHILLIP*
		2.9mm Tx = .29 Tx = .73	*PORT PHILLIP*
Capes, promontories, peninsulas, points, headlands, beaches and similar features.	Univers Medium Italic **FT 65**	1.4mm Tx = .14 Tx = .35	*Cape York*
		1.9mm Tx = .19 Tx = .48	*Cape York*
			CAPE YORK
		2.4mm Tx = .24 Tx = .6	*CAPE YORK*
		2.9mm Tx = .29 Tx = .73	*CAPE YORK*
		3.4mm Tx = .34 Tx = .85	*CAPE YORK*
Islands.	Univers Medium **FT 64**	1.4mm Tx = .14 Tx = .35	Green Island
		1.9mm Tx = .19 Tx = .48	Green Island
			GREEN ISLAND
		2.4mm Tx = .24mm Tx = .6	GREEN ISLAND
		2.9mm Tx = .29 Tx = .73	GREEN ISLAND
		3.4mm Tx = .34 Tx = .85	GREEN ISLAN

HYDROGRAPHIC FEATURES

Feature	Type Description	Size 1:100 000 1:250 000	Example
FORESHORE AND OFFSHORE FEATURES (Continued)			
Named rocks,.reefs, shoals and similar features.	Univers Medium Condensed **FT 62**	1.4mm Tx = .14 Tx = .35	South West Reef
		1.9mm Tx = .19 Tx = .48	South West Reef
Descriptive notes, e.g., rocks, reefs, etc.	Univers Medium Condensed Italic **FT 63**	1.4mm Tx = .14 Tx = .35	*Rocks*
		1.9mm Tx = .19 Tx = .48	*Reefs*
INLAND WATER FEATURES			
Named lakes, large dams, or reservoirs, ponds, waterholes, swamps, and similar features.	Univers Medium Condensed Italic **FT 63**	1.6mm Tx = .16 Tx = .4	*Lake Amby*
		1.9mm Tx = .19 Tx = .48	*Lake Amby*
			LAKE AMBY
		2.4mm Tx = .24 Tx = .6	*LAKE AMBY*
		2.9mm Tx = .29 Tx = .73	*LAKE AMBY*
Named Rivers and Creeks. Type size to be selected in accordance with the importance of the feature.		1.6mm Tx = .16 Tx = .4	*Murphy Creek*
		1.9mm Tx = .19 Tx = .48	*Wallace Creek*
			WALLACE CREEK
		2.4mm Tx = .24 Tx = .6	*MACQUARIE RIVER*
		2.9mm Tx = .29 Tx = .6	*MURRAY RIVER*
Named claypans, falls, rapids, springs and similar features.		1.6mm Tx = .16 Tx = .4	*Morea Claypan*
		1.9mm Tx = .19 Tx = .35	*Morea Claypan*
			MOREA CLAYPAN
Named bores, wells, tanks, small dams, service reservoirs and similar man made features.	Univers Medium Italic **FT 65**	1.4mm Tx = .14 Tx = .35	*Mulga Bore*
Descriptive notes, e.g., claypans, drains, falls, pipelines, etc.	Univers Medium Condensed Italic **FT 63**	1.4mm Tx = .14 Tx = .35	*Pipeline*
		1.9mm Tx = .19 Tx = .48	*Numerous dry lakes*

VEGETATION FEATURES

Feature	Type Description	Size 1:100 000 1:250 000	Example
NATURAL AND CULTIVATED VEGETATION			
Descriptive notes.	Univers Medium Condensed Italic **FT 63**	1.4mm Tx = .14 Tx = .35	*Low saltbush*
		1.9mm Tx = .19 Tx = .4	*Low saltbush*

