



Metals		
Sb <i>Antimony</i>	Cu <i>Copper</i>	Ni <i>Nickel</i>
As <i>Arsenic</i>	Au <i>Gold</i>	Pt <i>Pyrite</i>
Bx <i>Barite</i>	Fe <i>Iron</i>	Ag <i>Silver</i>
Ba <i>Bauxite</i>	Pb <i>Lead</i>	Sn <i>Tin</i>
Bi <i>Bismuth</i>	Mn <i>Manganese</i>	W <i>Tungsten</i>
Cr <i>Chromite</i>	Hg <i>Mercury</i>	Zn <i>Zinc</i>
Co <i>Cobalt</i>	Mo <i>Molybdenum</i>	

Industrial Minerals and Rocks					
A	Asbestos	Gs	Gemstones	Ma	Marble
Ci	Bentonite	Im	Ilmenite	Pe	Perlite
Dt	Diatomite	Ck	Kaolin clay	R	Rutile
Do	Dolomite	Ls	Limestone	Si	Silica
Fs	Feldspar	Ms	Magnesite	Wo	Wollastonite
Cv	Crucible sand	Ms	Muscovite	Wo	Wollastonite

Energy Minerals

Size of Deposits
The classification below is based on that established by Parkinson (1988) in the Atlas of Australian Resources. It has been amended to allow for the well developed infrastructure of the Republic of South Africa.

Commodity	Size of Deposit (tonnes of contained commodity)			
	Small	Medium	Large	Very Large
Bentonite	<100 000	100 000 - 1 000 000	>1 000 000	>10 000 000
Clay	<10 000	10 000 - 100 000	>100 000	>1 000 000
Copper	<50 000	50 000 - 1 000 000	>1 000 000	>10 000 000
Dolomite	<2 000 000	2 000 000 - 10 000 000	>10 000 000	>100 000 000
Grafit (thermal)	<10 000	10 000 - 100 000	>100 000	>1 000 000
Grafitite	<10 000	10 000 - 200 000	>200 000	>1 000 000
Iron	<5 000 000	5 000 000 - 10 000 000	>10 000 000	>100 000 000
Iron ore	<10 000	10 000 - 100 000	>100 000	>1 000 000
Lead	<100 000	100 000 - 1 000 000	>1 000 000	>10 000 000
Limestone	<2 000 000	2 000 000 - 10 000 000	>10 000 000	>100 000 000
Oil	<50 000	50 000 - 1 000 000	>1 000 000	>10 000 000
Molybdenum	<5 000	5 000 - 200 000	>200 000	>1 000 000
Salt (hal. sal. in mt. oil)	<10 000 000	10 000 000 - 100 000 000	>100 000 000	>1 000 000 000
Silica sand	<1 000 000	1 000 000 - 2 500 000	>2 500 000	>10 000 000
Silicon	<500 000	500 000 - 1 000 000	>1 000 000	>10 000 000
TiFe	<500 000	500 000 - 1 000 000	>1 000 000	>10 000 000
Zinc	<1 000 000	1 000 000 - 2 500 000	>2 500 000	>10 000 000

Amended from Parkinson, G. (Ed). 1988. *Atlas of Australian Resources*, vol. 5 (AUSLIG : Canberra).

Note: Areas of likely potential for further deposits are bounded by full lines; areas of possible potential for further deposits are bounded by long-dashed lines; alienated areas are bounded by short-dashed lines.

Codes for Zones of Mineral Potential

Each zone of mineral potential is identified by a code, which describes the principal commodity, the economic importance of the deposits in the zone, and its location. The code is a series of letters and numbers, arranged in a standard order, to provide the following information:

- Commodity:** The first two letters indicate the principal commodity, using Cb for black coal deposits, Au for gold, HM for heavy minerals (iminerite, rutile and zircon), IM for industrial minerals (dolomite, graphite, kaolin, clays, limestone, magnetite, perlite, silica and foundry sand), ME for metals (copper, lead, mercury and zinc), and OS for oil shale.
- Economic importance:** The economic importance of the various types of gold and metalliferous deposits is shown by the letters A, B, C, D and 2, which are based on the typical size of the deposits in the class. Thus an A class zone is expected to contain large deposits of mineable grade, suitable for large mines, average B class deposits are smaller than A size, and areas D class zones contain small deposits, which may be suitable for small mines where they contain high-grade ore. Deposits that have been alienated are shown by the letter Z.

For zones of coal deposits, these letters do not indicate relative economic significance, but identify the coal measure sequence, e.g. type CbA zones are expected to contain deposits of Wallaroo coal, CbB of Ipswich Coal Measures coal, etc. There is no letter for this purpose in the code identifying zones with potential for deposits of industrial minerals, which are only identified by the letters IM.

3. Location: This is a number which gives a guide to the location of the zone, starting in the north of the area for gold and metalliferous deposits. As an example, zone AuA1 is a zone with potential to contain gold deposits, of type A genesis (in this case of volcanogenic origin) which is considered to have the potential to provide large ore bodies, and is the northernmost of the AuA non-zones.

Probability of Further Deposits

The probability of further deposits existing in a zone of mineral potential is judged to fall within one of four classes:

- Likely**, indicating there is a strong probability that the zone contains more deposits; (zone boundary shown with a solid line)
- Possible**, indicating there is some chance that the zone contains further deposits; (zone boundary shown with a long-dashed line and abbreviated to the letter P in the report);
- Unlikely**, indicating that the zone contains little or no further mineral potential; (zone boundary shown with a short-dashed line and abbreviated to the letter U in the report);
- Unknown**, indicating that the zone contains no further mineral potential; (zone boundary shown with a dotted line and abbreviated to the letter X in the report).

One area of likely, possible or unlikely potential is shown in the map, and the assessment of potential is not in any way related to the size of a deposit which may exist within a zone, but is an indication of the chance that an unknown deposit, or a deposit of a type not assessed, may exist. Likewise the position of the boundary of the zone is not related to the assessment of the probability of potential.

Accuracy of Zone Boundaries

The accuracy of the location of each zone boundary is described in the text of the accompanying report. Two levels of information were used. For level A, the position of the boundary is based on adequate knowledge, so that the boundary position is considered 'definite'. At this level the zone boundary was based on information from detailed geological mapping or modern regional geological mapping, and confirmed by the airmagnetic pattern. For level B, the information and concepts used to draw the zone boundary are of lesser certainty, and the position of the boundary is classed as 'probable'. In these cases the boundary is often based on information from 'first-pass' regional geological mapping, carried out in the early 1970s, which is less accurate than the recent mapping.

MAP 5: WARWICK-TWEED HEADS