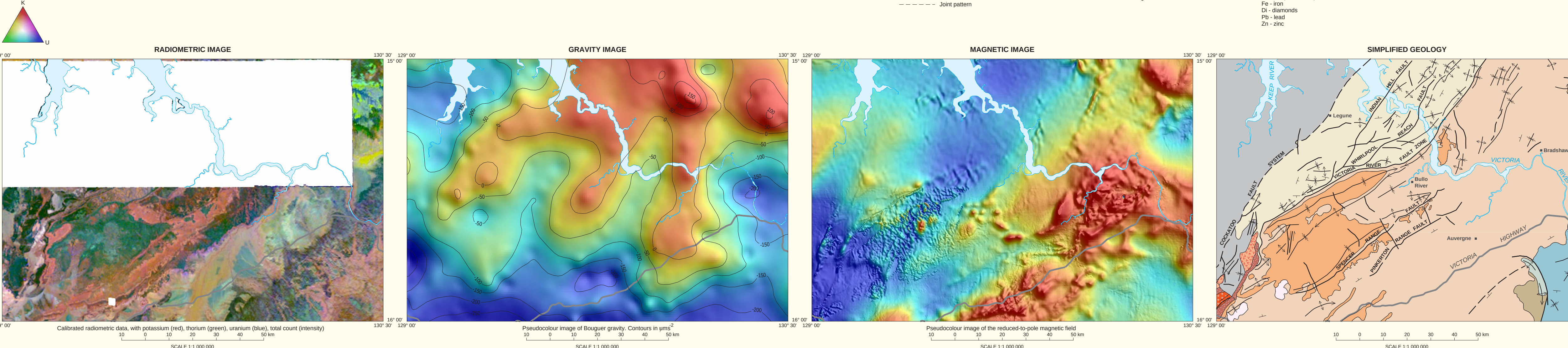
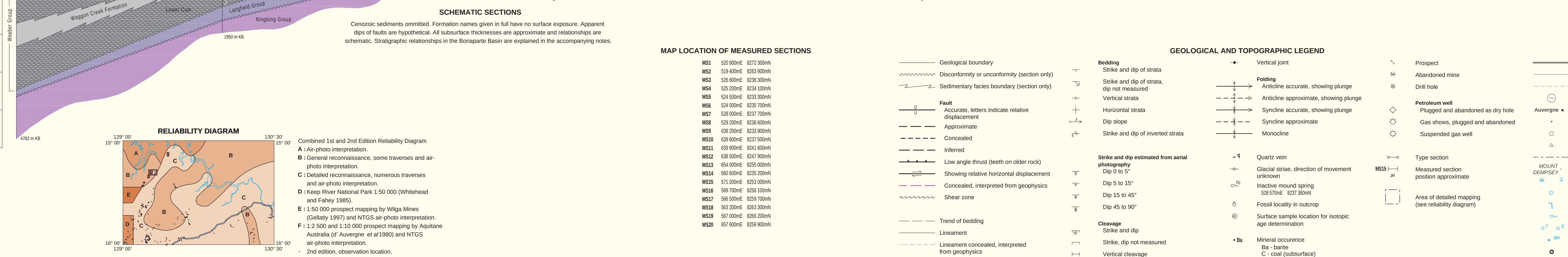
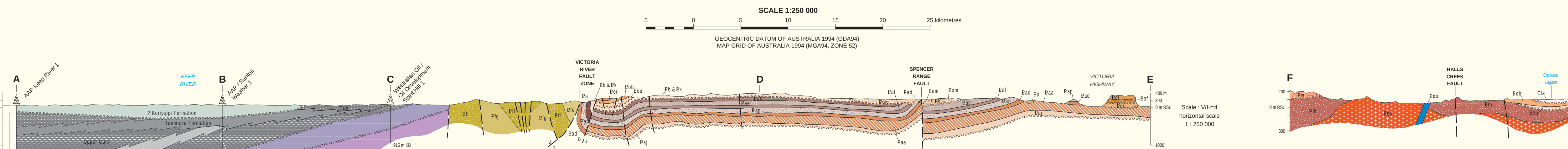
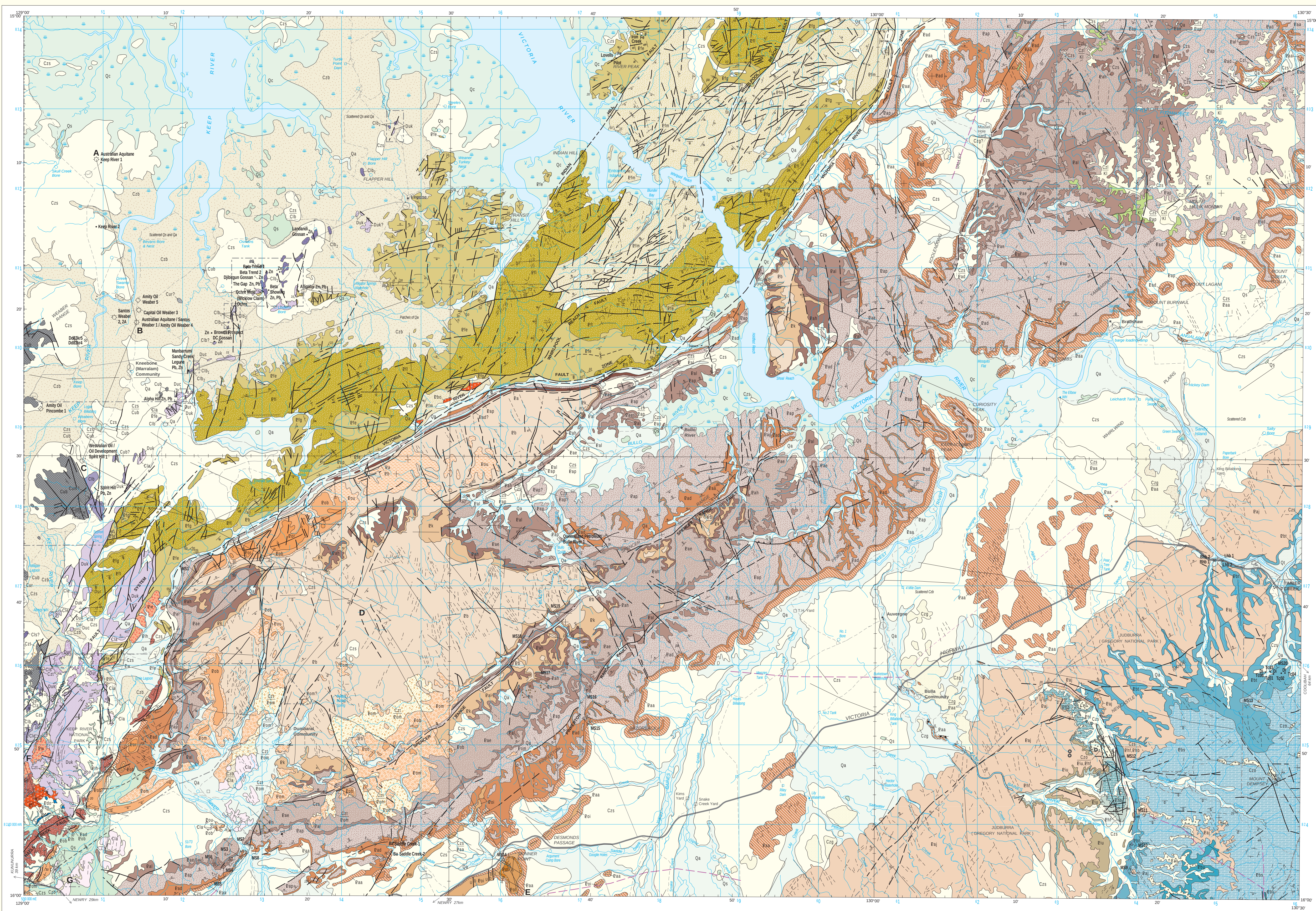
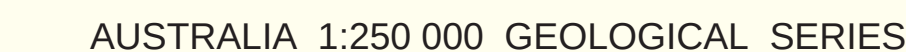


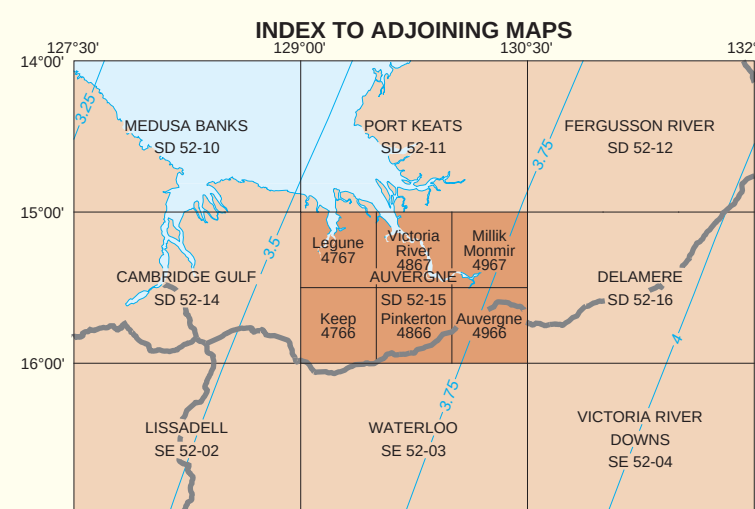
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SHEET SD 52-15



Geological Period	Geological Epoch	Geological Sub-epoch	Geological Group	Geological Formation	Geological Unit	Geological Lithology				Geological Notes
						Q1	Q2	Q3	Q4	
PALEOZOIC	CARBONIFEROUS	VISÉAN	WEAVER GROUP	Point Spring Sandstone	Q1	Sandstone, siltstone, claystone, minor conglomerate	C1	Tuffs, scoria		
				Banker Creek Member	Q2	Sandstone, conglomerate, siltstone	C1	Sand, silt, collyrium		
				Burwell Formation	Q3	Sandstone, siltstone, shale, calcareous sandstone, quartzic limestone	C1	Black and grey silt		
				Milford Formation	Q4	Shale, siltstone, minor sandstone	C1	Sand, gravel, pebbles and cobble conglomerates, calcareous		
				Zimmerman Sandstone	Q1	Sandstone, siltstone, and lithic sandstone, minor siltstone and shale	C1	Lavae, tuffaceous silt, pumice, sand		
				Sequims Limestone	Q2	Dolomite and calcareous sandstone, minor limestone	C1	Stromatolite		
				Enns Sandstone	Q3	Calcareous quartz sandstone, siltstone, shale, quartzic dolomite	C1			
				Burt Range Formation	Q4	Calcareous sandstone, dolomitic, leached carbonate rocks	C1			
				Unassigned Cockade Group	Q1	Quartzic limestone, siltstone, silty dolomite, upper quartzic dolomite	C1			
				PALEOZOIC	CARBONIFEROUS	VISÉAN	WEAVER GROUP	Kellys River Sandstone	Q1	Quartz sandstone
Ragged Range Conglomerate	Q2	Sandstone, polymictic conglomerate	C1							
Antenn Plateau Volcanics	Q3	Massive porphyritic and trachytic basalt	C1							
Big Knob beds	Q4	Quartzite and lithic sandstone, polymictic conglomerate	C1							
Elme Lagoon Member	Q1	Quartz sandstone, conglomerate	C1							
Bessy Knob Member	Q2	Quartz sandstone, conglomerate	C1							
Bucket Spring Member	Q3	Siltstone, sandstone	C1							
Jarvis Sandstone	Q4	Ferruginous sandstone	C1							
Moonlight Valley Tuff	Q1	Damocrite, dolomite	C1							
PALEOZOIC	CARBONIFEROUS	VISÉAN	WEAVER GROUP					Blackdick Creek Sandstone	Q2	Quartz sandstone
				Forster Phyllite	Q3	Damocrite, abundant dolomite clasts	C1			
				Skinner Sandstone	Q4	Basal damocrite, dolomitic sandstone, conglomerate	C1			
				Bullo River Sandstone	Q1	Quartz sandstone, conglomerate	C1			
				Black Point Sandstone Member	Q2	Felsophytic and quartzite sandstone, minor conglomerate	C1			
				Shoal Reach Formation	Q3	Andersberg Group	C1			
				Spencer Sandstone	Q4	Andersberg Group	C1			
				Lloyd Creek Formation	Q1	Silty and quartzic dolomite, dolomite, sandstone, minor siltstone and shale	C1			
				Pickerton Sandstone	Q2	Quartz sandstone, silty sandstone, dolomitic sandstone	C1			
				Saddle Creek Formation	Q3	Oolitic and micaceous dolomite, quartzic and silty dolomite, sandstone, dolomitic siltstone	C1			
PALEOZOIC	CARBONIFEROUS	VISÉAN	WEAVER GROUP	Angled Siltstone	Q4	Silty cemented quartz sandstone, minor siltstone and mudstone	C1			
				Jasper Gorge Sandstone	Q1	Basal sandstone, upper siltstone, minor oolitic dolomite and dolomite	C1			
				Balluta Group	Q2	Siltstone, shale, minor dolomite and sandstone	C1			
				Watte Group	Q3	Silty cemented sandstone, siltstone, basal conglomerate	C1			
				Balluta Group	Q4	Balluta Group	C1			
				Watte Group	Q1	Watte Group	C1			
				Balluta Group	Q2	Balluta Group	C1			
				Watte Group	Q3	Watte Group	C1			
				Balluta Group	Q4	Balluta Group	C1			
				PALEOZOIC	CARBONIFEROUS	VISÉAN	WEAVER GROUP	Legune Formation	Q4	Siltstone, minor dolomite
Largang Sandstone	Q1	Siltstone, minor dolomite	C1							
Cooboon Formation	Q2	Siltstone, minor dolomite	C1							
Moyle River Formation	Q3	Siltstone, minor dolomite	C1							
Balluta Group	Q4	Balluta Group	C1							
Watte Group	Q1	Watte Group	C1							
Balluta Group	Q2	Balluta Group	C1							
Watte Group	Q3	Watte Group	C1							
Balluta Group	Q4	Balluta Group	C1							
PALEOZOIC	CARBONIFEROUS	VISÉAN	WEAVER GROUP					Fraines Formation	Q1	Siltstone, minor dolomite
				Camphel Springs Dolomite	Q2	Siltstone, minor dolomite	C1			
				Phoebe Hill	Q3	Siltstone, minor dolomite	C1			
				Unnamed Dikes	Q4	Siltstone, minor dolomite	C1			
				Shoal River Granite	Q1	Siltstone, minor dolomite	C1			
				Whitewater Volcanics	Q2	Siltstone, minor dolomite	C1			
				Halls Creek Group	Q3	Siltstone, minor dolomite	C1			
				Halls Creek Group	Q4	Siltstone, minor dolomite	C1			
				Halls Creek Group	Q1	Siltstone, minor dolomite	C1			
				Halls Creek Group	Q2	Siltstone, minor dolomite	C1			

NOTES : Stratigraphic column does not show lateral equivalence of formations or all unconformable relationships.
Superposition of Cenozoic units not shown.



MAGNETIC DECLINATION
Blue lines show magnetic declination for epoch 1990 IGRF model. Annual change is 10.8" per year eastward. Map information is current for 1990.

Geology:	1966:	JJ Verwey, J Roberts, JA Kaiblich, BMR (now Geoscience Australia)
	1967:	IR Forester, CM Morgan, JP Sweet, AG Reid, BMR (now Geoscience Australia)
	1998:	JN Burgess, PR Bees, NTGS
	2000:	JN Dunster, IR Bees, A Cullinson, NTGS
Designed:	1999-2000:	JN Dunster
Compiled:	2000:	RC Pottle, NTGS
Digital Cartography:	2000:	RC Pottle, NTGS
Version Details Mapping:		
	1997:	MMFES Exploration P 1, Ashton B and Lee 1, 1980; Aquitaine Australia Minerals Pty Ltd - MMFES Exploration P1 Joint Venture, 1979 mineral inventory in the Northern Territory Territories, 1989-1990; Northern Territory Department of Mines and Energy, 1997; Open File Company Report RC1600-002.
	1997:	Whiteland Minerals Pty Ltd, Geological Survey of the Kopp River National Park, Northern Territory Department of Mines and Energy, Northern Territory Geological Survey, Report 1, Gelatly DC, 1997; Cuesta Ridge, NT, L18,92, annual report for the period 1st September 1996 to 31st December 1996; Northern Territory Department of Mines and Energy, Open File Company Report RC1997-034.
	1965, 1972:	Centiles Inc Pty Ltd, 1972, 1973, Australian NT (1st edition), 1:250,000 geological map.

The Northern Territory Government does not warrant this map as definitive, nor free from error and does not accept liability for the loss caused by, or arising from reliance upon information provided herein. The information presented on this map is current to the 11th March 2014. Future modifications may be made as new information becomes available.

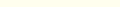
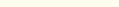
Produced by, and plot on demand created by, the Northern Territory Geological Survey, Department of Mines and Energy, Darwin, Australia. Issued under the authority of the Minister for Mines and Energy, the Honourable DAVID TOLLNER, MLA.

Base map compiled by NTGS from 1:250 000 scale topographic data and LANDSAT 7 satellite imagery supplied by the National Mapping Division, Geoscience Australia, Department of Industry, Canberra.

This map is accompanied by a text publication: Durstler JN, Beier PR, Burgess JM and Cuzovinos A, 2000. *Auwegne, Northern Territory (Second Edition). 1:250 000 geological map series explanatory notes*, SD 52-15. Northern Territory Geological Survey, Darwin.

It is recommended that this map be referred to as: Durstler JN, Beier PR, Burgess JM and Cuzovinos A 2000. *Auwegne, Northern Territory (Revised Second Edition). 1:250 000 geological map series*, SD 52-15. Northern Territory Geological Survey, Darwin.

DIGITAL DATA: Map data can be obtained from NTGS as hardcopy prints and digital files in MapInfo and MicroStation formats. Information on formats, release conditions, and costs are available from Minerals and Energy InfoCentre, 3rd Floor Centpoint Building, Darwin. Phone (08) 8999 6443, visit the NTGS website at www.minerals.nt.gov.au/ntgis, or email to geoscience.info@nt.gov.au.

 Northern Territory Government

Government of Nunavut

Department of Mines and Energy
NORTHERN TERRITORY GEOLOGICAL SURVEY

Ian Scrimgeour, Executive Director

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