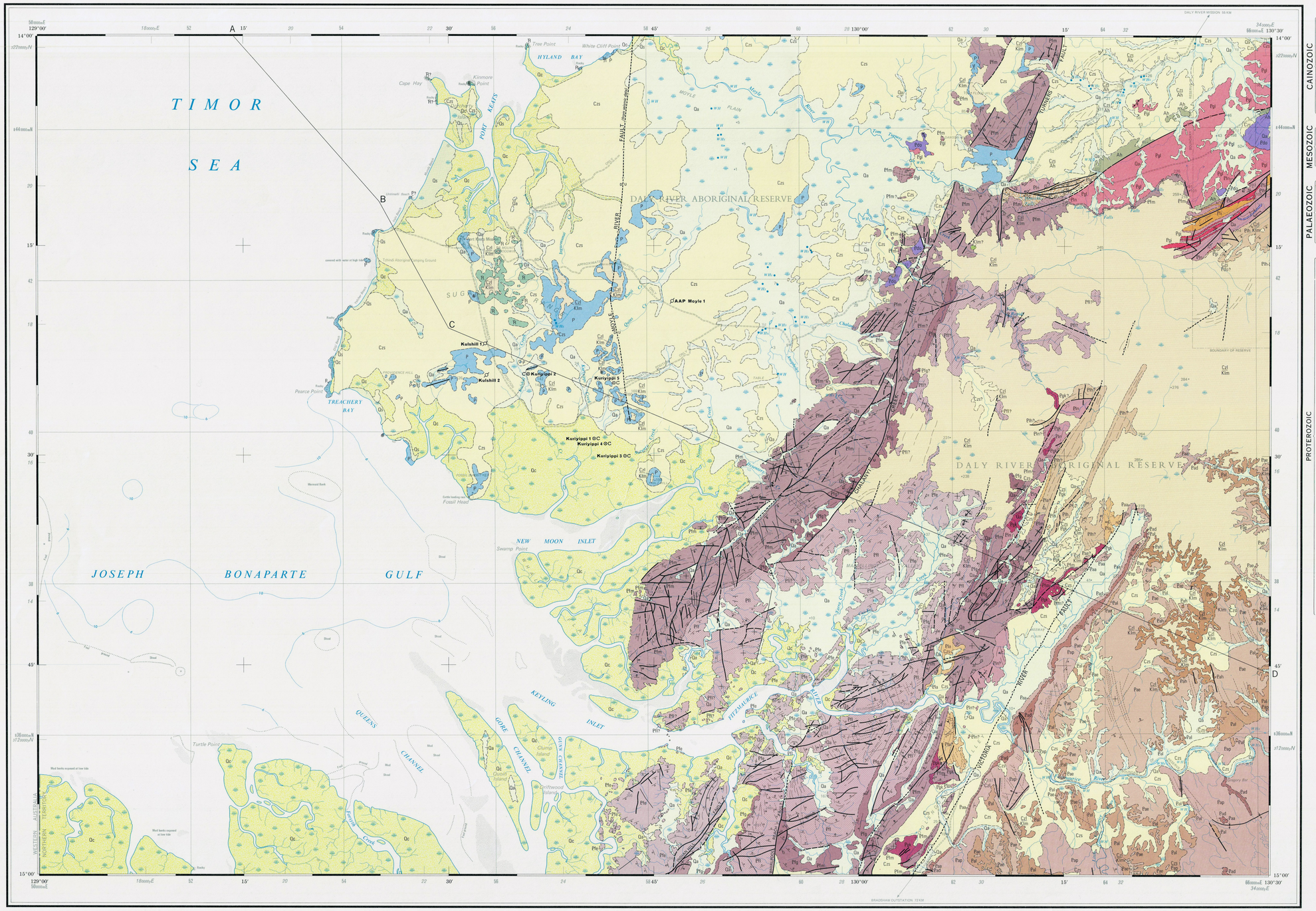
PORT KEATS
NORTHERN TERRITORY



Reference

Era	Period	Unit	Symbol	Description
CAINOZOIC	QUATERNARY		Qa	Alluvium
			Qc	Coastal deposits: mud, silt, evaporites
			Qs	Coastal sand dunes
			Czs	Sand, soil, colluvium; black soil
			Czl	Laterite
MESOZOIC	CRETACEOUS	Mullaman Beds	Klm	Friable sandstone, siltstone, conglomerate, mostly lateritized
	TRIASSIC	Port Keats Group	Tr	Micaceous sandy siltstone, shale, sandstone
PALAEOZOIC	PERMIAN	Port Keats Group	P	Siltstone, silty sandstone, minor limestone, basal conglomerate, diamictite
	LOWER CARBONIFEROUS	Port Keats Group	C	Shale, sandstone, siltstone, minor limestone (section only)
	DEVONIAN	Port Keats Group	D	Shale, sandstone, limestone (section only)
PROTEROZOIC	ADELAIDEAN OR CARPENTARIAN	Auvergne Group: Shoal Reach Formation	Pah	Brown and greyish green siltstone, minor dolomite and sandstone
		Spencer Sandstone	Paw	Sandstone, silty sandstone, minor dolomitic sandstone
		Lloyd Creek Formation	Pal	Dolomite oolitic and stromatolitic; siltstone, sandy and silty dolomite
		Pinkerton Sandstone	Pap	Massive sandstone, siltstone, minor shale
		Saddle Creek Formation	Pad	Basal cross-bedded sandstone; upper siltstone; minor shale
		Angalarri Siltstone	Paa	Greyish green siltstone, minor shale, dolomitic siltstone and limestone
		Jasper Gorge Sandstone	Paj	Sandstone
		Fitzmaurice Group: Legune Formation	Pfe	Interbedded sandstone, siltstone and shale: siltstone and shale increase to north
		Lalngang Sandstone	Pfl	Sandstone with minor siltstone, grit, conglomerate; siltstone bed in the south
		Goobaieri Formation	Pfg	Grey shale, grey and greenish grey siltstone and fine sandstone; interbeds of fine white sandstone
		Moyle River Formation	Pfm	Fine to medium sandstone; Siltstone; Conglomerate
	CARPENTARIAN	Koolendong Granite	Pgk	Coarse granite, adamellite, granodiorite; even-grained and porphyritic
		Litchfield Complex	Pgl	Granite, adamellite, granodiorite, tonalite; coarse, mostly even-grained, xenolithic
	CARPENTARIAN OR LOWER PROTEROZOIC	Ti–Tree Granophyre	Pgt	Sills of medium-grained granophyre
			Pdo	Sills of dolerite, quartz diorite, gabbro: mostly amphibolitized
	LOWER PROTEROZOIC	Finniss River Group: Henschke Breccia	Ph	Coarse ferruginous sedimentary breccia and conglomerate with sandstone fragments, minor sandstone
		Chilling Sandstone	Pth	White quartz sandstone; minor tuff
		Meeway Volcanics	Pta	Porphyritic acid lavas : tuffs
		Berinka Volcanics	Pti	Acid lavas, minor sandstone interbeds; intrusive acid rocks
		Noltenius Formation	Ptn	Greywacke, siltstone, sandstone, grit, conglomerate
ARCHAEAN		Hermit Creek Metamorphics	Ah	Quartz-mica schist and phyllite

- Geological boundary
- Anticline (showing plunge)
- Syncline (showing plunge)
- Monocline
- Fault showing relative horizontal movement; D, U indicate relative movement down, up
- Fault showing low-angle thrust (I— indicates upper plate)
- Where location of boundaries, folds and faults is approximate, line is broken; where inferred, queried; where concealed, boundaries and folds are dotted, faults are shown by short dashes
- Shear zone
- Prevailing strike and dip of strata
- Horizontal strata
- Vertical strata
- Dip < 5° (air-photo interpretation)
- Dip 5° – 15° (air-photo interpretation)
- Dip 15° – 45° (air-photo interpretation)
- Dip > 45° (air-photo interpretation)
- Lineament (air-photo interpretation)
- Trend lines (air-photo interpretation)
- Joint pattern (air-photo interpretation)
- Vertical joints
- Prevailing strike and dip of foliation
- Strike and dip of cleavage
- Prevailing strike and dip of cleavage
- Vertical cleavage
- Macrofossil locality
- Quartz vein
- Petroleum exploration well-dry, abandoned
- Coal bore
- Waterhole
- Waterhole on stream
- Marsh
- Falls
- Rock ledge
- Foreshore flat
- Vehicle track
- Landing ground
- Building
- Yard
- Astronomical station
- Elevation in metres — approximate

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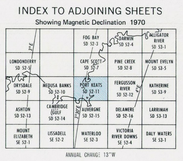
INDEX TO ADJOINING SHEETS
Showing Magnetic Declination 1970



Scale 1:250,000

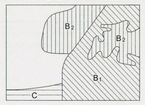
5 0 5 10 15 20 25 KILOMETRES

5 0 5 10 MILES

GREY NUMBERED LINES ARE 20,000 METRE INTERVALS OF THE AUSTRALIAN MAP GRID, ZONE 52
GREY TICKS WITH ITALIC NUMBERS INDICATE THE 20,000 YARD GRID, ZONE 4 (AUSTRALIA SERIES)
TRANSVERSE MERCATOR PROJECTION

Section
Cainozoic sediments omitted
Scale : $\frac{V}{H} = 2$

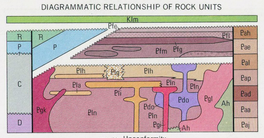
RELIABILITY DIAGRAM

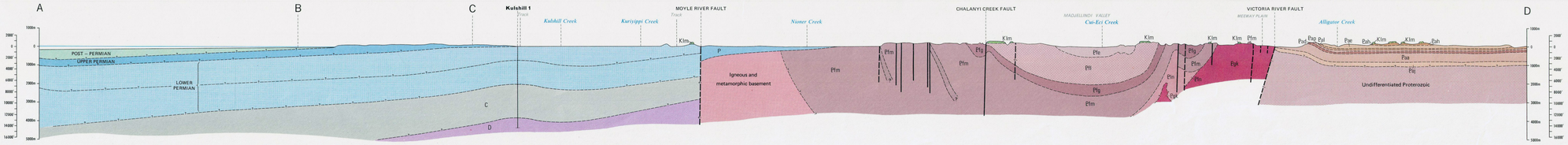


Geology
- B_1 Detailed reconnaissance, numerous traverses, and air-photo interpretation
- B_2 General reconnaissance, few traverses mainly air-photo interpretation
- C Air-photo interpretation

Geology 1965 by J.J. Veevers, J. Roberts, M. Dickins
1967 I.R. Pontifex, C.M. Morgan, I.P. Sweet
1968 I.R. Pontifex, C.M. Morgan, I.P. Sweet J. Mendum
Compiled 1968 by C.M. Morgan, I.P. Sweet
1969 I.D. Johnston
Cartography by Geological Branch B.M.R.
Drawn by Mercury–Walch Pty. Ltd., Hobart, Australia
Printed by Mercury–Walch Pty. Ltd., Hobart, Australia

DIAGRAMMATIC RELATIONSHIP OF ROCK UNITS





FIRST EDITION 1971

PORT KEATS
SHEET SD 52-11

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