

AUSTRALIA 1:100 000 BASEMENT GEOLOGY COMPILATION

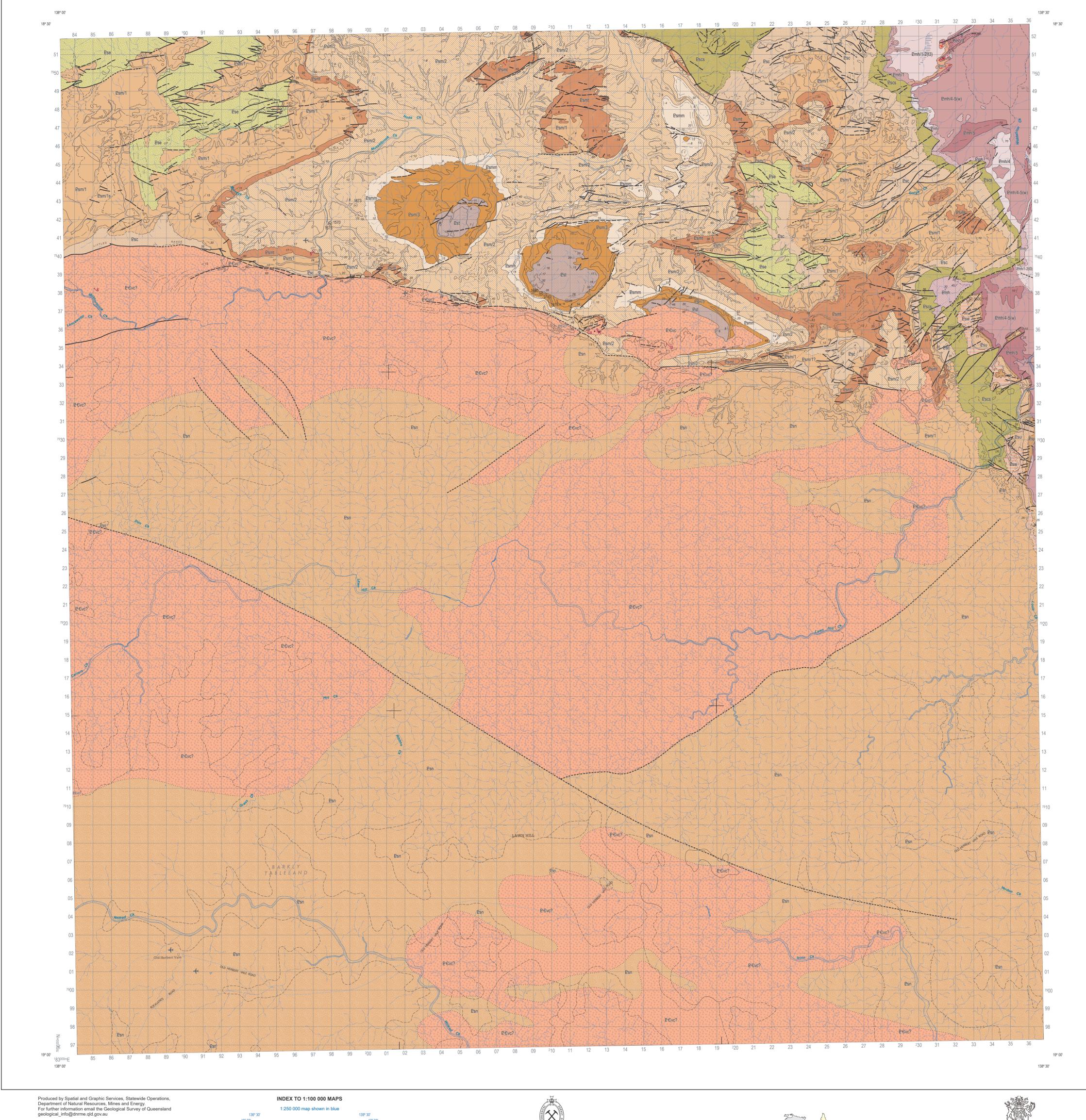
Cu—Copper, Fe—Iron, Ph—Phosphate Rock (Phosphorite)

MINING SYMBOLS

- Prospect
- Prospect, abandoned ☆ Mine, abandoned

Mineral occurrence

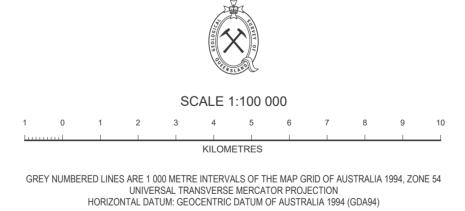




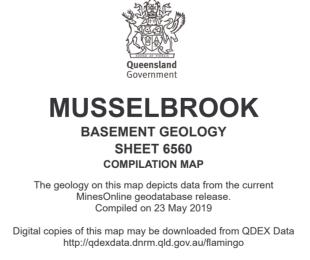
http://creativecommons.org/licenses/by/4.0/deed.en

© State of Queensland (Department of Natural Resources, Mines and Energy) 2019. This product incorporates topographic data which are:
© State of Queensland (Department of Natural Resources, Mines and Energy) 2019.

While every care is taken to ensure the accuracy of these data, the Department of Natural Resources, Mines and Energy makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.







SHEET 6560

AGE	GROUP	SUBGROUP	FORMATION	MEMBER	SYMBOL	LITHOLOGY SUMMARY
NEOPROTEROZOIC - EARLY CAMBRIAN	Kalkarindji Volcanic Group		Colless Volcanics		PEVC1	Amygdaloidal basalt, trachyte, arenite
MESOPROTEROZOIC	South Nicholson Group				Esn	Siltstone, shale, sandstone
	South Nicholson Group	Accident Subgroup	Tidna Sandstone		Pst	Thin-bedded, very fine to fine-grained sandstone passing upwards into thick-bedded, medium-grained, well-sorted, cross-bedded sandstone
	South Nicholson Group	Accident Subgroup	Mullera Formation		Psm	Siltstone, shale, sandstone and ironstone
	South Nicholson Group	Accident Subgroup	Mullera Formation		Psm/3	Thin-bedded, micaceous and siliceous siltstone, shale and fine-grained sandstone
	South Nicholson Group	Accident Subgroup	Mullera Formation	Middle Creek Sandstone Member	Psmm	Cross-bedded, fine to medium-grained, quartz-rich sandstone and mudstone
	South Nicholson Group	Accident Subgroup	Mullera Formation		Psm/2	Thin-bedded, micaceous and siliceous siltstone and shale
	South Nicholson Group	Accident Subgroup	Mullera Formation	Train Range Ironstone Member	Psmt	Hematitic and limonitic sandstone; hematitic, sideritic and chamosite-rich oolites at depth; siltstone and shale interbeds
	South Nicholson Group	Accident Subgroup	Mullera Formation		Psm/1s	Fine to medium-grained sandstone
	South Nicholson Group	Accident Subgroup	Mullera Formation		Psm/1	Thin-bedded, micaceous and siliceous siltstone, shale, fine-grained sandstone, oolitic ironstone and ferruginous sandstone
	South Nicholson Group	Accident Subgroup	Elizabeth Sandstone		Pse	Thick-bedded, trough cross-bedded, coarse to very coarse-grained and granule-rich, quartzose sandstone
	South Nicholson Group	Accident Subgroup	Constance Sandstone		Psc	Very fine to coarse-grained and granule-rich to pebbly, lithic to quartzose (mostly sublithic) sandstone, mostly trough cross-bedded; conglomerate; siltstone and shale associated with very fine-grained sandstone intervals
	South Nicholson Group	Accident Subgroup	Constance Sandstone	Schultz Sandstone Member	Pscs	Fine to coarse-grained, well-sorted, thick-beddded, cross-bedded quartzose and sublithic sandstone; minor hematitic siltstone and very fine to fine-grained sandstone
	South Nicholson Group	Wild Cow Subgroup	Burangoo Sandstone		Psu	Thick-bedded, medium to coarse-grained, sublithic to quartzose sandstone, with scattered grains and layers of granules and pebble; strongly trough cross-bedded and also planar cross-beds, planar beds and hummocky cross-stratification
	South Nicholson Group	Wild Cow Subgroup	Pandanus Formation		Esp	Greyish green to greyish red, thin-bedded and laminated, micaceous siltstone, shale and fine-grained sandstone
	South Nicholson Group	Wild Cow Subgroup	Wallis Formation		Psw	Laminated and thin-bedded shale and siltstone and thinly interbedded sandstone
				Hedleys Sandstone	Psh	Cross-bedded, medium to coarse-grained quartzose sandstone with scattered granule and pebble bands; pebble to cobble conglomerate lenses at base with well-rounded quartz and quartzite and subangular to subrounded chert and silicified limestone clasts
PALEOPROTEROZOIC - MESOPROTEROZOIC	McNamara Group	Wide Supersequence			Pmh/4-5(w)	Grey to brown, siltstone and shale, tuffaceous siltstone and sandstone, feldspathic, micaceous sandstone and siltstone interbeds, minor dolomite
	McNamara Group		Lawn Hill Formation		Pmh	Siltstone, shale, tuff, minor sandstone and dolomite
	McNamara Group		Lawn Hill Formation		Pmh/6	Brown and green shale and flaggy, thin-bedded siltstone and fine-grained sandstone
	McNamara Group		Lawn Hill Formation	Widdallion Sandstone Member	Pmh/5	Reddish-brown, flaggy to blocky, fine to medium-grained ferruginous micaceous, feldspathic sandstone; brown to purple siltstone interbeds
	McNamara Group		Lawn Hill Formation		Pmh/4	Grey, fissile to flaggy siltstone and shale; tuffaceous siltstone and sandstone; flaggy tuff beds; minor dolomite
	McNamara Group		Lawn Hill Formation	Bulmung Sandstone Member	Pmh/3	Flaggy to blocky, micaceous, lithic sandstone and conglomeratic sandstone, shale clasts common near base
	McNamara Group		Lawn Hill Formation		Pmh/2	Grey to light green, fissile to flaggy tuff and tuffaceous siltstone, thinly interbedded micaceous siltstone, shale and claystone
	McNamara Group		Lawn Hill Formation		Pmh/1	Grey to black carbonaceous shale containing light grey silty carbonate concretions and flaggy siltstone interbeds; minor tuff
	McNamara Group	Lawn Supersequence			Pmh/3-4(I)	Grey to black carbonaceous shale and siltstone, greenish grey tuff and tuffaceous siltstone, micaceous lithic sandstone and conglomeratic sandstone
	McNamara Group	Term Supersequence-3			Pmh/1-2(t3)	White and grey thick-bedded sandstone and lithic sandstone interbedded with siltstone
	McNamara Group		Termite Range Formation		Pmt/2	Thin to medium-bedded, light brown clayey siltstone and ferruginous, fine to medium-grained sandstone

Note: (i) Informal lithological subdivisions within a unit are preceded by a forward slash (/). (ii) The displayed superposition of units does not necessarily reflect relative ages or spatial relationships. (iii) The extent of cover units (although unlabelled) are shown on this map. Reference should be made to the companion Surface Geology compilation map for details of these units. (iv) Uncoloured units indicate no data is currently available.

GEOLOGICAL SYMBOLS

GEOLOGICAL SYMBOLS								
——	Fault concealed	Geological boundary approximate	Lineament	+	Vertical strata	*	Photo-interpreted strike and dip of strata 15-45 Degrees	
Escarpment	——?——· Fault inferred	? Geological boundary inferred	── * ── Syncline approximate		Photo-interpreted strike and dip of strata <5 Degrees	*	Photo-interpreted strike and dip of strata >45 Degrees	
Fault accurate	? Fault inferred/concealed	····· Geological boundary concealed	Trend line	_	Photo-interpreted strike and dip of strata 5-15 Degrees		20g.000	
———— Fault approximate	Geological boundary accurate	·····?····· Geological boundary inferred/concealed	Strike and dip of strata			\otimes	Isotopic age in millions of years	

TOF	POGRAPHICAL	AND CULT	TURAL SY	MBOLS

 Local; Private or restricted road	 Waterbody; Canal line		Minor non-perennial watercourse		Intermittent lake
 Vehicular track	Major perennial watercourse		Homestead	* * * * * * * * * * * * * * * * * * *	Swamp
 Bikeway; Walkway	 Major non-perennial watercourse	+	Landing ground		Land subject to inundation