

Geological Period	Formation/Member	Code	Description	
CAINOZOIC	QUATERNARY	Qa	Sand, silt, clay; minor gravel: alluvial and lacustrine	
		Qb	Clay, silt: flood plains	
		Qc	Sand, silt; minor gravel: mixed alluvial and aeolian	
		Qz	Sand, fine to medium; minor silt: aeolian	
		Czh	Pebble and cobble gravel: fluvial	
		Czk	Calcrete; minor chalcedony: pedogenic	
		Czl	Laterite, pisolitic or massive: pedogenic	
	EARLY ? JURASSIC TO EARLY CRETACEOUS	JK	Undivided. Section only	
	EARLY CRETACEOUS	Kb	Fine to medium sandstone; minor conglomerate: shallow water marine	
	MESOZOIC	LATE JURASSIC TO EARLY CRETACEOUS ?	JKb	Sandstone, fine to coarse, conglomerate; minor mudstone: cross-bedded: fluvial
		JKo	Sandstone, fine to coarse; minor mudstone; partly rippled, cross-bedded; some clay pellets, pebbles; basal conglomerate: deltaic	
		JKr	Sandy mudstone with scattered granules, pebbles; bioturbated, massive; upper part mainly fine silty sandstone; glauconitic and partly phosphatic: marine	
LATE JURASSIC		Ja	Sandstone, fine to medium, mudstone; minor granule conglomerate; cross-bedded, rippled, bioturbated in part: shallow marine	
EARLY ? TO LATE JURASSIC		Jl	Sandstone; minor siltstone, conglomerate, lignitic beds. Not shown on map face	
		Jlj	Sandstone, medium to coarse, cross-bedded, cross-laminated; minor mudstone, clay pellet conglomerate: aeolian	
		Jlm	Sandstone, medium to coarse, cross-bedded; conglomerate lenses; minor siltstone; sandstone, very fine to medium, rippled: fluvial	
EARLY TO MIDDLE TRIASSIC		Ra	Sandstone, very fine to fine, cross-bedded, rippled, laminated to thin-bedded; minor clay pellet conglomerate, mudstone: deltaic	
EARLY TRIASSIC		Rb	Mudstone, sandy mudstone; minor very fine sandstone: rippled, burrowed, laminated to thin-bedded, pyritic, glauconitic; phosphatic bone beds near base: shallow restricted marine	
		Rm	Sandstone, fine; minor mudstone; thin-bedded, cross-bedded, rippled, bioturbated; basal pebble conglomerate: continental	
PALAEOZOIC TO MESOZOIC	P ₂ M	Breccia: dolomite fragments in fine dolomite matrix; minor quartz, anhydrite: salt dome caprock. Not shown on map face		
LATE PERMIAN	Hardman Formation	Ph	Sandstone, mudstone	
	Cherrabun Member	Phc	Sandstone, fine to medium, cross-bedded in part; interbedded mudstone: marine	
	Hicks Range Sandstone Member	Phh	Sandstone, fine to medium, mudstone; partly cross-bedded, bioturbated, rippled, thin-bedded, pebbly: lagoonal-fluvial	
	Kirkby Range Member	Phk	Sandstone, fine, calcareous mudstone; partly cross-bedded, rippled; granule conglomerate lenses; fossiliferous: marine	
	EARLY TO LATE PERMIAN	Lightjack Formation	Pj	Sandstone, fine and medium; partly cross-bedded, rippled; coal in upper part; fossiliferous: marine
			Pi	Sandstone, mudstone
	EARLY PERMIAN	Noonkanbah Formation	Pn	Mudstone, calcareous, pyritic; interbeds of limestone, sandstone, granule conglomerate; fossiliferous: marine
		Poole Sandstone	Pp	Sandstone, mudstone
		Tuckfield Member	Ppt	Sandstone, fine, thin-bedded, flaser-bedded, cross-bedded; interbedded mudstone; clay pellet conglomerate lenses: lagoonal?
		Nura Nura Member	Ppn	Sandstone, fine to medium, mudstone; partly cross-bedded, rippled; fine sandstone, well sorted, cross-bedded, at base: marine
LATE CARBONIFEROUS TO EARLY PERMIAN		Millajiddee Member	Pcm	Sandstone, medium; minor fine sandstone, mudstone; rippled, cross-bedded: marine
	Wye Worry Member	Pcw	Sandstone, fine to medium, mudstone; calcareous; rare faceted and striated dropstones: glacial	
	Carolyn Formation	Pc	Sandstone, fine to coarse, poorly bedded, cross-bedded, scour and fill structures	
	Winifred Formation	Pw	Shale, carbonaceous, pyritic; minor siltstone, fine sandstone	
MIDDLE ? DEVONIAN TO CARBONIFEROUS ?	Betty Formation	Pb	Sandstone, very fine to coarse; minor conglomerate; Precambrian rock clasts may be glacial dropstones	
		Pg	Sandstone, mudstone; minor conglomerate	
	Anderson Formation	Ca	Sandstone, siltstone, shale; minor limestone, dolomite, anhydrite	
LATE DEVONIAN	Fairfield Group	DC	Undivided	
	Gumhole Formation	Dg	Limestone, siltstone, shale, sandstone	
	Luluigui Formation	Ll	Siltstone, shale, limestone, fine sandstone	
	Cianmeyer Siltstone	Dc	Siltstone, shale; minor limestone	
	Babrongan Beds	Db	Shale, siltstone; partly calcareous; minor limestone and dolomite	
MIDDLE ? TO LATE DEVONIAN	D	Dolomite, dolomitic limestone, shale, fine sandstone: reef complex deposits		
MIDDLE DEVONIAN ?	Tandagoo Red Beds	Dr	Sandstone, shale; calcareous	
LATE ORDOVICIAN ? TO EARLY DEVONIAN	Carribuddy Formation	Sc	Siltstone, claystone, sandstone, dolomite, halite, anhydrite, minor limestone; Halite; minor dolomite, anhydrite, dolomite breccia: salt dome	
EARLY TO MIDDLE ORDOVICIAN		O	Undivided	
MIDDLE ORDOVICIAN	Roebuck Dolomite	Or	Dolomite; minor calcilutite	
	Nita Formation	On	Limestone; minor dolomite, shale	
	Goldwyer Formation	Og	Shale, limestone, dolomite, siltstone	
EARLY TO MIDDLE ORDOVICIAN	Willara Formation	Ow	Limestone; minor dolomite, shale, sandstone	
EARLY ORDOVICIAN	Nambeet Formation	Ot	Shale; minor limestone, sandstone	
PRECAMBRIAN		pC	Igneous, metamorphic, and sedimentary rocks	

Not shown on map face