

008

7. GENERAL GEOLOGY:

Briefly, Precambrian sediments are overlain (? unconformably) by fine sediments of the Lower Cambrian Donah Formation which in turn is conformably overlain by the Crimson Creek Formation. The Cambrian sequences in general dip steeply to the N.E. and are intruded in the northern part of the licence areas by the stanniferous Meredith Granite. Minor folding and faulting is widespread but is as yet not well understood.

The latest understanding of the stratigraphic column present in the Mt. Lindsay area is shown in Table 2 below:-

Age	Formation	Unit	Thickness	Remarks
Cambrian	Crimson Creek	Tuffs	+1,000m	Lithic crystal tuffs with minor mudstones and carbonate-rich beds. Zone of metamorphism near Meredith Granite contains disseminated sulphides in part.
		Siltstones	200-300m	Siltstones, grey-brown-purple mudstones and lithic tuffs carbonate-rich in part.
		Upper Chert	5-10m	Massive red-pink cherts - good exposure in creeks, scree on ridges.
		Siltstones	50-100m	Grey siltstones brown-purple mudstones and tuffs.
		Lower Chert	5-20m	Red-brown oolitic ferruginous cherts and soft unconsolidated brown-purple tuffs. Good exposure along ridges - little outcrop in creeks.
	Donah Formation Success Creek Group) after	Brown Siltstones	5-10m?	Brown laminated well bedded siltstones - missing or not exposed in some areas.
		Siltstones	20-200m	Laminated well bedded grey-green siltstones, with thin black oolitic cherts in Top 10-20m.
		Shales	100-200m	Grey black shales contorted and sheared with minor interbedded siltstones.
		Siltstones	300m	Grey siltstones with interbedded shales and quartzites - with minor tuffs and carbonate beds. Small scale folding intense in places.