

TABLE I — INTERPRETATION OF ELKHORN MOUNTAINS VOLCANICS STRATIGRAPHIC RELATIONS

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Elkhorn Mountains, Montana Klepper, Weeks, and Ruppel (1957)		THIS REPORT				Deer Lodge Valley Montana ¹		
		Basin Quadrangle Montana				EAST FLANK		North end
		East half	Thunderbolt Mountain	Cliff Mountain	Elliston mining district and northwest quarter ²	Peterson creek and vicinity	Cottonwood creek and Zosell mining district ²	
Late Cretaceous (mainly or entirely Judith River age)				Basalt flows and flow breccia		Basalt flows and flow breccia	Overlying rocks unknown probably basalt	
	Upper member (Kv ₃) dominantly andesitic sedimentary rocks.	Tuff and volcanic sandstone.		?		?		
	Middle member (Kv ₂) dominantly quartz latite welded tuff.	Upper quartz latite welded tuff.	Upper quartz latite welded tuff.	Upper quartz latite welded tuff.		Upper quartz latite welded tuff.		
		Lower quartz latite welded tuff.	Tuff, lapilli tuff, tuff breccia, volcanic con- glomerate and sandstone.	Tuff breccia. Tuff and lapilli tuff. Tuff and tuff breccia, in part welded.	Andesitic tuff, lapilli tuff and tuff breccia, largely welded.	Welded tuff and tuff breccia.		Welded tuff breccia, welded tuff and tuff.
			Flow breccia. Welded tuff.	Flow and pyroclastic breccia.		Flow breccia.		
Lower member (Kv ₁) dominantly andesitic massive crystal tuff, tuff breccia, and breccia, with thin bed- ded tuff and welded tuff units locally.			Tuff, lapilli tuff, tuff breccia.		Tuffaceous sandstone and tuff.		Tuffaceous sandstone and siltstone, tuff breccia, andesitic flows.	
	<i>(Older volcanic rocks, if any existed, destroyed by emplacement of batho- lithic rocks).</i>	<i>(Older volcanic rocks, if any existed, destroyed by emplacement of batho- lithic rocks).</i>	<i>(Base not exposed).</i>	<i>(Unconformable on Kaatenai formation, lower part of Colorado formation).</i>	<i>(Probably overlies middle, siliceous, part of Colorado formation, but relations uncertain).</i>	<i>(Base not exposed).</i>	<i>(Base unknown)</i>	

¹ Based mainly on reconnaissance by the writer, 1956.

² Lithologic data in part from F.S. Robertson (1953, 1956).