

Explanation

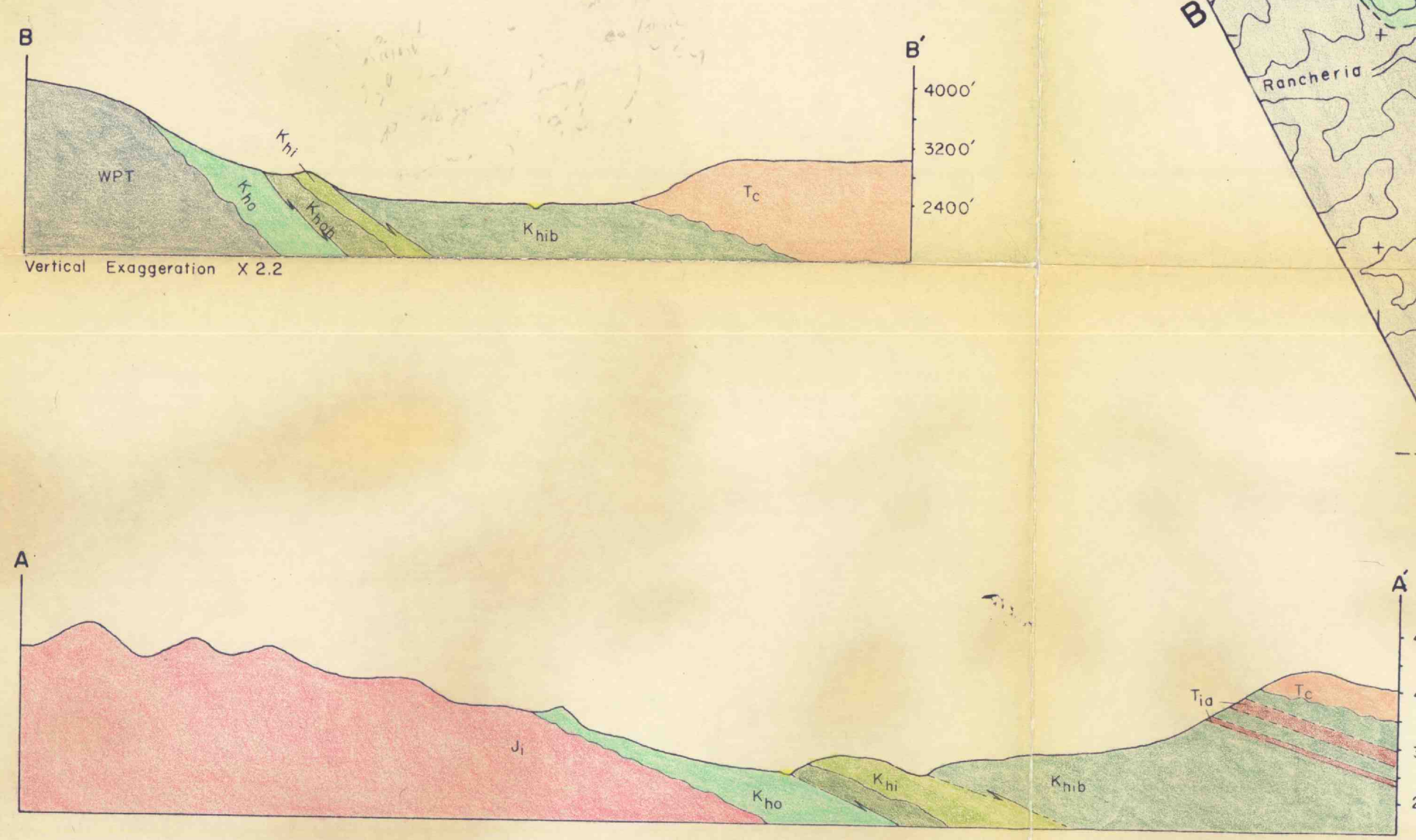
Quaternary	Holocene	Q <sub>a</sub>	Alluvium	Q <sub>ls</sub>	Landslide debris
		Unconformity			
Tertiary	Oligocene	T <sub>r</sub>	Roxy Formation Dominantly andesitic flows with interbedded tuffs and volcanic breccia.	T <sub>io</sub>	Intrusive rocks Dikes and sills of porphyritic andesite with some basalt and dacite.
		Unconformity			
	Eocene	T <sub>c</sub>	Coolest Formation Waterlain volcanic conglomerate and breccia with tuffs, welded tuff and interbedded flows.		
Cretaceous	Unconformity				
		K <sub>hib</sub> K <sub>hi</sub>	Hilt Formation K <sub>hib</sub> - Bailey Hill Mudstone Member, dark gray with wacke interbeds and channels. K <sub>hi</sub> - Lower arenaceous member, dark olive gray, arkosic wackes and arenites with conglomerate interbeds and lenses.		
	Unconformity				
		K <sub>u</sub>	Hilt & Hornbrook Formations Undivided.		
	Late Cretaceous	K <sub>hoh</sub> K <sub>ho</sub>	Hornbrook Formation K <sub>hoh</sub> - Henley Mudstone Member, dark gray, silty, with arkosic wacke interbeds. K <sub>ho</sub> - Lower arenaceous member, dark olive gray, arkosic wackes and arenites with conglomerate interbeds and lenses.		
			Unconformity		
Pre-Cretaceous		WPT CM EM	Paleozoic and Mesozoic basement complex Undivided metamorphics of Klamath Mountains province WPT - Western Paleozoic & Triassic subprovince CM - Central Metamorphic subprovince EM - Eastern Paleozoic subprovince		
	Ji	Mt. Ashland batholith Mainly quartz diorite, some granite.			
Pre-Cretaceous	ub	Ultrabasic intrusive Serpentinized.			

--- Contact, dashed where approximately located, dotted where inferred.

--- Fault, dashed where approximately located, dotted where inferred, U on upthrown side.

9° Strike and dip of sedimentary rock.

76° Strike and dip of schistosity.



Geologic Map  
of the  
**Cottonwood Cr. Valley & Vicinity, Oregon-California**  
by  
Monty Arthur Elliott  
Scale 1:42,000  
0 1/2 1 2 3 Miles  
Contour Interval 400 Ft.  
Datum is Mean Sea Level  
1970