COLUMNAR SECTIONS

GENERALIZED SECTION OF THE SEDIMENTARY AND VOLCANIC ROCKS OF THE NORTHERN PORTION OF THE MOUNT STUART QUADRANGLE.

Scale: 1 inch = 1000 feet.

System.	Series.	Formation Name.	Symbol.	Columnar Section.	Thickness in Feet.	Character of Rocks.
TERTIARY	PLIOCENE?	Rhyolite.	Tr		100–800	Compact lava and tuff, with scattered crystals of quartz; weathers white and rusty yellow.
		UNCONFORMITY.				
	EOCENE	Roslyn formation.	Trl		3500±	Massive yellow sandstone, with clay and bony shale. Roslyn seam of coal in upper portion of formation, with other less valuable seams.
		Teanaway basalt.	Ttb		300–4000	Lava flows, with interbedded tuffs. Lava black and dark gray, compact or vesicular, sometimes weathering brown or red.
		UNCONFORMITY.				
		Swauk formation.	Ts		3500–5000	Well-stratified conglomerate, arkose and quartzose sandstones and shale, light and dark gray in color. In eastern part of area, sandstone more purely quartzose, and white and yellow in color. Cut by numerous dikes of diabase.
		UNCONFORMITY.				
PRE-TERTIARY		Granodiorite, peridotite, slate, and other rocks.				Descriptions in table of intrusive and pre-Tertiary rocks.

GENERALIZED SECTION OF THE SEDIMENTARY AND VOLCANIC ROCKS OF THE SOUTHERN PORTION OF THE MOUNT STUART QUADRANGLE.

Scale: 1 inch = 1000 feet.

System.	Series.	Formation Name.	Symbol.	Columnar Section.	Thickness in Feet.	Character of Rocks.
TERTIARY	MIOCENE	Ellensburg formation.	Teb		1000–1500	Light-colored sandstone, shale, and conglomerate, usually very friable, with many pumice fragments and pebbles, and exhibiting stream bedding.
		Yakima basalt.	Ty		1000–2000	Black lava, weathering gray or brown, compact or scoriaceous, with typical columnar partings common. Tuffs present, but not important.
		Taneum andesite.	Tta		200–300	Loose-textured lava, with tuff and tuff-breccia, pink, green, gray, and brown in color.
		UNCONFORMITY.				
	EOCENE	Manastash formation.	Tm		1000+	Massive, light-colored sandstone and pebbly conglomerate, with shale and seams of bone.
		UNCONFORMITY.				
PRE-TERTIARY		Easton schist.	et			Described in table of intrusive and pre-Tertiary rocks.

GENERALIZED TABLE OF THE INTRUSIVE AND PRE-TERTIARY ROCKS OF THE MOUNT STUART QUADRANGLE, ARRANGED ACCORDING TO AGE.

Period.	Formation Name.	Symbol.	Lithologic Symbol.	Character of Rocks.
TERTIARY MIOCENE	Diabase.	Td		Brown, medium-grained diabase in intrusive bodies, with associated dikes.
	Andesite-porphyry.	Tap		Massive, gray, porphyritic rock, forming intrusive mass at Clealum Point.
EOCENE	Gabbro.	Tg		Light-gray massive gabbro, with greenish to purplish tint. Intrusive bodies in pre-Tertiary rocks and sheet in Swauk formation at Camas Land.
POST-CARBONIFEROUS	Mount Stuart granodiorite.	msg		Massive, gray, granular rock of granitic appearance, varying in grain and in proportion of darker minerals. Porphyritic near contacts and in smaller masses.
	Peridotite and serpentine.	pr		Massive and schistose, according to degree of alteration to serpentine. Colors range from black to nearly white, with yellow, red, and green common. Massive peridotite, compact, with waxy luster, and somewhat porphyritic.
CARBONIFEROUS? AND OLDER	Peshastin formation.	ps		Black slate, with bands of chert, thin beds of grit, and lenses of limestone.
	Hawkins formation.	hk		Breccia, tuff, and amygdaloid, of purplish or greenish color, usually of diabasic composition, although much altered. In some areas intricately associated with Peshastin formation.
	Easton schist.	et		Quartz-mica-schist, silvery green, crumpled, and gashed with quartz veins. Amphibolites and epidote-schists less prominent.

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