CHART I.—EXPOSED ROCK UNITS IN THE CENTRALIA—CHEHALIS DISTRICT

		Formation and member	Thickness (feet)	Character of rocks
QUATERNARY	Pleistocene and Recent	Alluvium and landslide debris	0–30	Gravel, sand, and silt along stream courses; low-level terraces and fan material; swamp deposits locally
			0–50	Debris composed of Quaternary and Tertiary rocks
	Pleistocene	Vashon drift	0–300	Outwash deposits of sand and gravel, and till; composed chiefly of metamorphic and igneous rocks of foreign origin. Deltaic deposits of sand and gravel locally. Deposits containing abundant locally derived basalt and andesite in a few places
		Terrace deposits	0–50	Gravel and sand with interbedded silt and clay
		Logan Hill formation	0–200	Glaciofluvial deposits consisting of gravel, sand, and silt, with some till. Gravel is composed chiefly of locally derived porphyritic volcanic rocks; unit weathered and iron stained in upper 30 to 60 ft
		Unconformity		
TERTIARY	Pliocene ?	Nonmarine sedimentary rocks	0–1000	Thin-bedded to massive tuffaceous, arkosic, and carbonaceous sandstone and siltstone, chiefly of lacustrine and fluvial origin. Basaltic sandstone and conglomerate near contact with underlying basalt. Upper part of section less consolidated, consisting chiefly of lake deposits of clay, silt, sand lenses, and abundant fragments and logs of fossil wood
	Miocene	Columbia River(?) basalt	0–100	Black aphanitic to finely porphyritic basalt, vesicular in part, jointed
		Unconformity		
		Astoria(?) formation	0–700+	Massive and crossbedded carbonaceous, arkosic sandstone with thin interbeds of siltstone; locally thick basaltic and andesitic conglomerate beds and pebbly sandstone. Fossil wood and leaves commonly present. A few fossiliferous marine interbeds
	Oligocene	Unconformity		
		Lincoln formation of Weaver — Tuffaceous siltstone member	0–2000	Massive gray tuffaceous marine siltstone and fine-grained tuffaceous sandstone; few persistent calcareous beds and tuff beds. Basal part interfingers with basaltic sandstone member in western part of area
	?	Lincoln formation of Weaver — Basaltic sandstone member (—?)		Massive dark-greenish-gray fossiliferous basaltic sandstone with a few tuffaceous siltstone beds and basaltic conglomerate beds. Persistent pumiceous lapilli tuff beds near base. Calcareous nodules and beds locally present
	Eocene	Skookumchuck formation	0–3500	Massive to thin-bedded arkosic sandstone and siltstone containing interbedded carbonaceous material; coal beds near top and base of formation. Sandstone locally fossiliferous, grading laterally into marine siltstone. Basaltic sandstone and conglomerate beds locally present in lower part of formation. Includes fissile tuffaceous siltstone which crops out in west-central part of area
		Local unconformity		
		Northcraft formation	0–1500+	Andesite and basalt flows, pyroclastic rocks, basaltic conglomerate and sandstone. Rock sequence thickens from west to east
		Mcintosh formation	4000–4500+	Dark-gray foraminiferal tuffaceous siltstone and claystone. Contains interbeds of massive pebbly arkosic and basaltic sandstone in upper and lower parts. Calcareous nodules and thin tuff beds present locally in the siltstone. Pyroclastic rocks and lava flows in lower part of sequence in western part of area
		Base not exposed		

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