



CORRELATION OF MAP UNITS

Qls	Qal	Holocene	Pleistocene (?)	QUATERNARY
Unconformity				
Tud				
Tgm				
Tuc				
Totc				
Tub				
Tgna				
Tua				
mb.		Eocene		TERTIARY
Tgp				
Tguu				
Tggl				
Tgr				
Tgr				
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Tgr				
Unconformity		Paleocene		
Kmvu		Upper Cretaceous		CRETACEOUS

DESCRIPTION OF MAP UNITS
Landslide deposits (HOLOCENE)—Detached masses and slumped ground, mostly lying at the foot of steep cliffs. Most slides are derived from the lower part of the Parachute Creek Member or upper part of the Garden Gulch Member of the Green River Formation. Slide masses lying northeast of the East Fork of Spring Creek include much oxidized material; it is presumed that this landsliding resulted from clinkering or oxidation of oil-shale beds in the Parachute Creek Member.
Alluvium (HOLOCENE AND PLEISTOCENE)—Locally derived material confined to stream valleys; also includes some slope wash along valley walls; includes alluvial fans at mouths of branch streams. Most drainages contain at least some alluvial deposits, but only the thickest, most persistent, or most extensive deposits are shown.
UNITA FORMATION (Eocene)—Mostly clastic sediments of a propagating deltaic complex that ultimately filled the Eocene lake in which the sediments of the Green River Formation were deposited. Generally southward-thinning wedges composed chiefly of sandstone and siltstone that interfinger with marlstones of the Green River Formation.
Tongue B—Drawn to brownish-gray sandstone and siltstone; minor marlstone. Sandstone is very fine to coarse grained, locally conglomeratic; massive or evenbedded, to crossbedded. Abundant channel units. Locally concretionary. Includes a locally persistent bed of light-gray marlstone containing a very thin bed (less than 0.5 ft (0.2 m) m) of rich oil shale. Basal contact gradational to sharply scoured. Top eroded. Maximum remaining thickness about 220 ft (66 m).
Tongue C—Mostly light gray to brown sandstone and siltstone; some gray silty marlstone. Sandstone is very fine to medium grained; locally coarse grained to conglomeratic. Resistant beds form cliffs along some valley walls. Basal contact gradational to sharply scoured. Thickness ranges from about 60 to 200 ft (18-60 m).
Tongue D—Drawn to brownish gray sandstone and siltstone; minor variably silty marlstone. Contains abundant channel sandstone and siltstone units. Sandstone is very fine to medium grained, crossbedded or evenbedded, locally conglomeratic, locally concretionary. Permeable sandstone slum blocks common. Resistant beds form cliffs along some valley walls. Locally discontinuous in the southeastern part of the quadrangle; tongues out on outcrop near the head of Indian Springs Draw in the south-central part of quadrangle. Basal contact gradational to sharply scoured. Maximum thickness is about 270 ft (80 m).
Tongue A—Mostly brown to gray sandstone and siltstone; lesser marly siltstone and silty marlstone. Contains channel sandstone units. Present only in the extreme northeastern corner of quadrangle, although unexposed isolated lenses are present farther south in drainages of the North Fork and Middle Fork of Greenwood Creek, where they are included with the main body of the Parachute Creek Member of the Green River Formation. May be represented elsewhere by a brown-weathering silty zone in the main body of the Parachute Creek. Maximum thickness is about 120 ft (36 m).
GREEN RIVER FORMATION (Eocene)—Sediments deposited in a variety of lacustrine environments.
Marlstone tongue at Mare Canyon—Mostly light-gray variably silty marlstone; lesser marly siltstone. Contains two thin oil shale beds, usually less than 0.5 ft (0.15 m) thick. The upper bed locally contains an estimated 20-25 gal per ton of oil, and may be as much as 1.5 ft (0.45 m) thick. The unit presumably merges with the Parachute Creek Member south of quadrangle where tongue C of the Unitita Formation pinches out. Thickness ranges from about 30 to 70 ft (9-21 m).
Marlstone tongue at Trail Canyon—Light-gray, variably silty marlstone; lesser marly siltstone. In the southeastern part of quadrangle, unit contains three thin, very low grade (4 gal per ton or less) beds of oil shale. North of Middle Barcus Creek, the unit is barren of oil shale. Merges with the Parachute Creek Member in upper Indian Springs Draw in the south-central part of the quadrangle and locally in parts of Trail and Mare Canyons in the southeastern part of quadrangle. Thickness ranges from about 60 to 170 ft (18-50 m).

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