

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BAILEY LAKE QUADRANGLE
WYOMING
7.5 MINUTE SERIES (TOPOGRAPHIC)



CORRELATION OF MAP UNITS

Qal	Qc	Qls	Qf	Qpt	Qco	Qig	Holocene	QUATERNARY
			Ted				Miocene	TERTIARY
			Kbb				Upper Cretaceous	
			Ko					
			Kbr				Lower Cretaceous	CRETACEOUS
			Kgu					
			Kgl				Upper Jurassic	
			Jsp				Middle Jurassic	JURASSIC
			Jt					JURASSIC(?) AND TRIASSIC(?)
			Jrn					
			Ra				Upper and Lower Triassic	
			Ru					TRIASSIC
			Rb					
			Rv					
			Rd					
			Ppu					PERMIAN
			Ppm					
			PPMw				Upper and Lower Mississippian	PERMIAN, PENNSYLVANIAN, AND MISSISSIPPIAN
			Mm				Upper and Middle Devonian	MISSISSIPPIAN
			Dd					DEVONIAN
			Ob				Upper Ordovician	ORDOVICIAN

DESCRIPTION OF MAP UNITS

Qal	Alluvium, includes alluvial fan deposits
Qc	Colluvium
Qls	Landslide deposits, includes mudflows
Qf	Talus
Qpt	Proctalus
Qco	Conglomerate
Qtg	Terrace deposits
Qed	CAMP DAVIS FORMATION (MIOCENE)--Poorly consolidated red conglomerate interbedded with dark-reddish-brown silty and sandy mudstone; entire interval poorly exposed; present only in the northeastern part of map area. 100+ ft thick
Kbb	BLIND BULL FORMATION (UPPER CRETACEOUS)--Predominantly gray shale and interbedded fine-grained calcareous friable sandstone; contains some thin beds of coal. 5,000+ ft thick in adjacent areas
Ka	ASPEN FORMATION (LOWER CRETACEOUS)--Gray and greenish-gray salt-and-pepper sandstone and siltstone; interbedded varicolored porcellanite. 5,000+ ft thick west of Darby thrust fault; 1,200-1,300 ft thick east of Darby thrust fault
Kbr	BEAR RIVER FORMATION (LOWER CRETACEOUS)--Upper part: predominantly dark-gray to olive-green shale and mudstone interbedded with black carbonaceous shale and a few calcareous salt-and-pepper fine-grained lenticular sandstone beds. Lower part: interbedded yellow-gray to gray-green mudstone, siltstone, and fine-grained argillaceous sandstone, with a well-cemented cliff-forming yellowish-gray fine-grained sandstone in upper part. 900-1,000 ft thick west of Darby thrust fault; 1,750 ft thick east of Darby thrust fault
Kg	GANNETT GROUP UNDIVIDED (LOWER CRETACEOUS)
Kgu	Upper unit--Includes the Draney Limestone, Bechler Formation, and Peterson Limestone; hard grayish-blue white-weathering sublithographic limestone, interbedded with calcareous shale. 250-300 ft thick
Kgl	Lower unit--Red siltstone, light-gray sandstone, and gray crossbedded quartzite, underlain by dark-colored resistant beds of conglomerate. 250-300 ft thick
Jsp	STUMP AND PREUSS SANDSTONES (UPPER AND MIDDLE JURASSIC)--Stump Sandstone: greenish- to brownish-gray crossbedded fine- to medium-grained calcareous glauconitic sandstone. Preuss Sandstone: red shaly sandstone and siltstone. Total thickness 200-300 ft
Jt	TWIN CREEK LIMESTONE (MIDDLE JURASSIC)--Predominantly light-gray fine-grained shaly limestone that characteristically weathers to light-gray splintery finger-sized fragments; sandy colitic medium-bedded cliff-forming limestone beds occur throughout formation; Gypsum Spring Member (basal part of formation) consists of red siltstone, shale, and limestone breccia. 850-900 ft thick east of Darby thrust fault; as much as 1,400 ft thick west of Darby thrust fault, but may be tectonically thickened in this area
Jrn	NUCKET SANDSTONE (JURASSIC? AND TRIASSIC?)-Light-tan to reddish-brown quartzite and quartzitic sandstone. 600-700 ft thick
Ru	ANKAREH SHALE (UPPER AND LOWER TRIASSIC), THAYNES FORMATION AND WOODSIDE FORMATION (LOWER TRIASSIC) UNDIVIDED--Total thickness about 1,700 ft
Ra	ANKAREH SHALE--Red to purplish-red calcareous siltstone and minor amounts of red shale, fine-grained sandstone, and varicolored red, green, and light-gray nodular argillaceous limestone. 900-1,000 ft thick
Rb	Thaynes Formation--Interbedded light-purplish-gray to brownish-gray medium- to thick-bedded limestone and greenish- to yellowish-gray-weathering fine-grained sandstone and siltstone. About 350 ft thick
Rv	Woodside Formation--Red-brown to bright-red laminated very fine grained sandstone and siltstone; poorly exposed; commonly forms thick red soil. 450-500 ft thick
Rd	DIMWOODY FORMATION (LOWER TRIASSIC)--Light-brown siltstone and fine-grained sandstone containing thin beds of bluish-gray limestone. 500-600 ft thick
Ppu	PHOSPHORIA FORMATION AND ASSOCIATED ROCKS (PERMIAN) Upper part--As mapped, includes Retort Phosphatic Shale Member of Phosphoria Formation, lower tongue of Shoshone Sandstone, Rex Chert Member of Phosphoria Formation, and Pranson Tongue of Park City Formation. 150-200 ft thick
Ppm	Meade Peak Phosphatic Shale Member of Phosphoria Formation--Non-resistant thin-bedded dark unit of phosphorite, mudstone, and carbonate rock. 50 ft thick
PPMw	WELLS FORMATION AND ASSOCIATED ROCKS (PERMIAN, PENNSYLVANIAN AND MISSISSIPPIAN)--Light-gray quartzitic sandstone and minor interbedded sandy limestone in upper part; forms prominent outcrops and coarse talus; Lower Permian Grandeur Tongue of the Park City Formation mapped with upper few feet. Gray dense limestone and red fissile shale underlain by iron-stained quartzitic sandstone in lower part; in part correlative to the Amsden Formation. Total thickness 1,500-1,600 ft
Mm	MADISON GROUP UNDIVIDED (UPPER AND LOWER MISSISSIPPIAN)--Light- to dark-gray fine- to coarse-grained massive to thin-bedded bioclastic limestone. Upper part equivalent to Mission Canyon Limestone; lower part equivalent to Lodgepole Limestone. 1,000-1,100 ft thick
Dd	DARBY FORMATION (UPPER AND MIDDLE DEVONIAN)--Upper part: nonresistant yellowish-brown thin-bedded dolomitic siltstone. Lower part: interbedded brownish-gray to dark-brown fine- to medium-grained dolomite and limestone. About 700 ft thick
Ob	HIGHORN DOLOMITE (UPPER ORDOVICIAN)--White to light-gray fine- to medium-grained massive slightly calcareous dolomite. About 500 ft thick

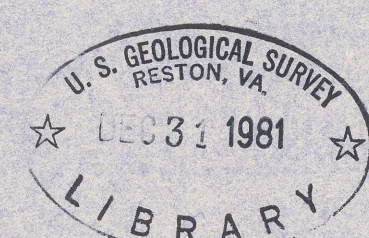
31	COAL BED--Dashed where approximately located. Thickness of coal, in feet, measured at triangle
U	CONTACT--Approximately located
D	FAULT--Dashed where approximately located; dotted where concealed. Arrows show relative movement. U, upthrown side; D, downthrown side
-----	SLUMP FAULT--Dotted where concealed
-----	THRUST FAULT--Sawtooth on upper plate; dotted where concealed
-----	FOLDS--Showing troughlines and crestlines. Dashed where approximately located; dotted where concealed
+	Anticline
+	Syncline
30	STRIKE AND DIP OF BEDS
40	Inclined
80	Overturned
+	Vertical
---	PHOSPHATE TRENCH

1 foot = 0.3048 meter

This report has not been edited for conformity with U.S. Geological Survey editorial standards.

GEOLOGIC MAP OF THE BAILEY LAKE QUADRANGLE, LINCOLN AND TETON COUNTIES, WYOMING

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