UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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PRELIMINARY GEOLOGIC MAP AND COAL SECTIONS OF THE WEST HALF OF THE BRIDGER QUADRANGLE, UINTA COUNTY, WYOMING

By

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CORRELATION OF MAP UNITS

Qal	Qc	Qls	Holocene	QUATERNARY
	Qg		Holocene and Pleistocene	
	Tgr / Tw		Eocene	TERTIARY
	Kh		Upper Cretaceous	CRETACEOUS
	Kfu			
	Kfl			
	Ka		Lower Cretaceous	
	Kbr			
	KJgp		Upper Jurassic	JURASSIC

DESCRIPTION OF MAP UNITS

SURFICIAL DEPOSITS (HOLOCENE)

Qal — Alluvium

Qc — Colluvium

Qls — **Landslide deposits** and mudflows

Qg — GRAVEL (HOLOCENE AND PLEISTOCENE)--Cobble-gravel to silt-size particles in lag concentrates overlying parts of Hilliard Shale; derived predominantly from Hams Fork Conglomerate Member of Evanston Formation

Tgr — GREEN RIVER FORMATION (EOCENE)--White-weathering marlstone, calcareous siltstone, and claystone. Present only in one small outcrop in northeastern corner of mapped area; 200+ ft thick

Tw — WASATCH FORMATION (EOCENE)--Red, maroon, yellow, and gray mudstone and yellow, brown, and gray fine- to coarse-grained sandstone. Sequence contains some stream-channel conglomerate beds containing boulders, cobbles, and pebbles of quartzite, chert, and limestone. As much as 2,000 ft thick

Kh — HILLIARD SHALE (UPPER CRETACEOUS)--Dark-gray to dark-brown marine shale, siltstone, and sandy shale; contains a few conspicuous light-gray to light-tan, fine-grained, resistant sandstone beds in upper part. About 6,000 ft thick

FRONTIER FORMATION (UPPER CRETACEOUS)

Kfu — Upper unit--Shale and thin beds of gray sandstone that contain Kemmerer coal zone; underlain by Oyster Ridge Sandstone Member, a prominent hogback of white- to light-gray-weathering, oyster-bearing sandstone; underlain by thick shale. About 1,200 ft thick

Kfl — Lower unit--Dark-gray shale, tan siltstone, and brown sandstone; sandstone beds less resistant than those in upper unit; contains Spring Valley coal zone in lower part. About 1,000 ft thick

Ka — ASPEN SHALE (LOWER CRETACEOUS)--Light- to dark-gray siltstone and shale, quartzitic sandstone, and porcellanite; forms prominent silver-gray hogbacks. About 700-800 ft thick

Kbr — BEAR RIVER FORMATION (LOWER CRETACEOUS)--Black to dark-gray fissile shale, and olive- to tan-weathering, fine-grained sandstone; contains a few thin fossiliferous limestone beds. About 1,400 ft thick

KJgp — GANNETT GROUP (LOWER CRETACEOUS), STUMP SANDSTONE AND PREUSS RED BEDS (UPPER JURASSIC)--Total thickness 1,200 ft

Gannett Group--Upper part contains interbedded red sandy mudstone and thin beds of gray to reddish- to purplish-gray limestone; lower part contains brick-red shale and mudstone and tan to red sandstone and conglomerate

Stump Sandstone--Greenish- to brownish-gray crossbedded fine-grained sandstone and limestone

Preuss Red Beds--Purplish-red to red silty mudstone and thin beds of red, tan, and gray sandstone

(2) — COAL BED--Dashed where approximately located. Circled number refers to measured coal section

CONTACT--Approximately located

U / D — FAULT--Dashed where approximately located. U, upthrown side; D, downthrown side. Arrows show relative movement

ANTICLINE--Showing crestline; dashed where approximately located

SYNCLINE--Showing troughline; dashed where approximately located

17 — STRIKE AND DIP OF BEDS

1 foot = 0.3048 meter

Kemmerer coal zone, Frontier Formation

T. 17 N. R. 117 W.
Sec. 24 Sec. 23 Sec. 11 Sec. 2 Sec. 2

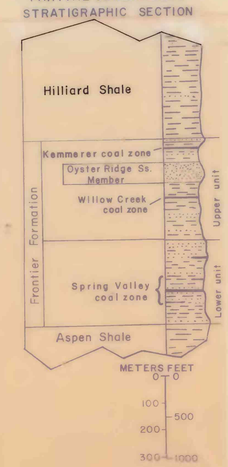
T. 18 N. R. 117 W.
Sec. 35

Spring Valley coal zone, Frontier Formation

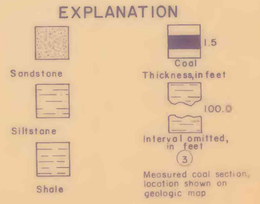
T. 17 N. R. 117 W.
Sec. 34 Sec. 26 Sec. 11 Sec. 2

T. 18 N. R. 117 W.
Sec. 36

PARTIAL GENERALIZED STRATIGRAPHIC SECTION



EXPLANATION



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

MEASURED COAL SECTIONS