

CORRELATION OF MAP UNITS

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

DESCRIPTION OF MAP UNITS

SURFICIAL DEPOSITS (HOLOCENE)

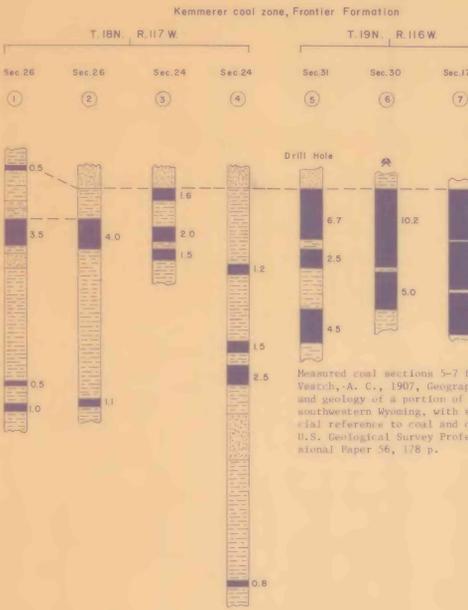
- Qal** Alluvium
- Qc** Colluvium
- Qls** Landslide deposits and mudflows
- Qg** GRAVEL (HOLOCENE AND PLEISTOCENE)—Cobble-gravel to silt-size particles in lag concentrates overlying parts of Hilliard Shale and Adaville Formation; derived predominantly from Hans Fork Conglomerate Member of Evanston Formation
- Tgr** GREEN RIVER FORMATION (EOCENE)—White-weathering marlstone, calcareous siltstone, and claystone. 200+ ft thick
- Tw** WASATCH FORMATION (EOCENE)—Eg, 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
- Kav** ADAVILLE FORMATION (UPPER CRETACEOUS)—Predominantly gray-brown-weathering carbonaceous shale and mudstone that contains beds of yellowish-brown to reddish-brown sandstone and siltstone; contains workable coal beds in lower part; basal part of formation consists of light-gray to white fine- to coarse-grained sandstone (Lazeart Sandstone Member). 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
- Kfu** FRONTIER FORMATION (UPPER CRETACEOUS)
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

- COAL BED**—Dashed where approximately located; dotted where concealed. Thickness of coal, in feet, measured at triangle. Circled number indicates measured coal section, ticks at ends of line of section
- CONTACT**—Approximately located
- FAULT**—Dashed where approximately located. U, upthrown side; D, downthrown side
- ANTICLINE**—Showing crestline. Dashed where approximately located; dotted where concealed
- SYNCLINE**—Showing troughline. Dashed where approximately located
- STRIKE AND DIP OF BEDS**
- ABANDONED COAL MINE**
- UNDERGROUND MINE WORKINGS**
- COMPANY DRILL HOLE**

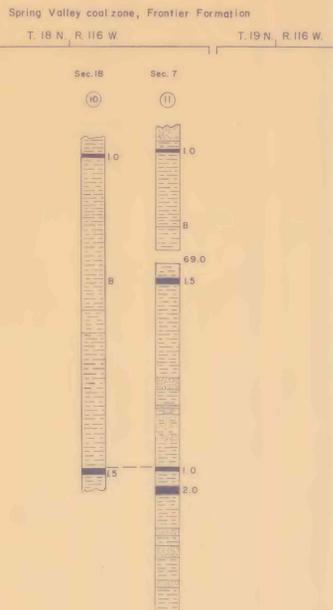
Geology mapped in 1976.
Coal beds mapped and measured by R. A. Lunceford

1 foot = 0.3048 meter

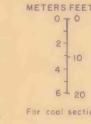
This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature.



Measured coal sections 5-7 from Veach, A. C., 1907, Geography and geology of a portion of southwestern Wyoming, with special reference to coal and oil; U.S. Geological Survey Professional Paper 56, 178 p.



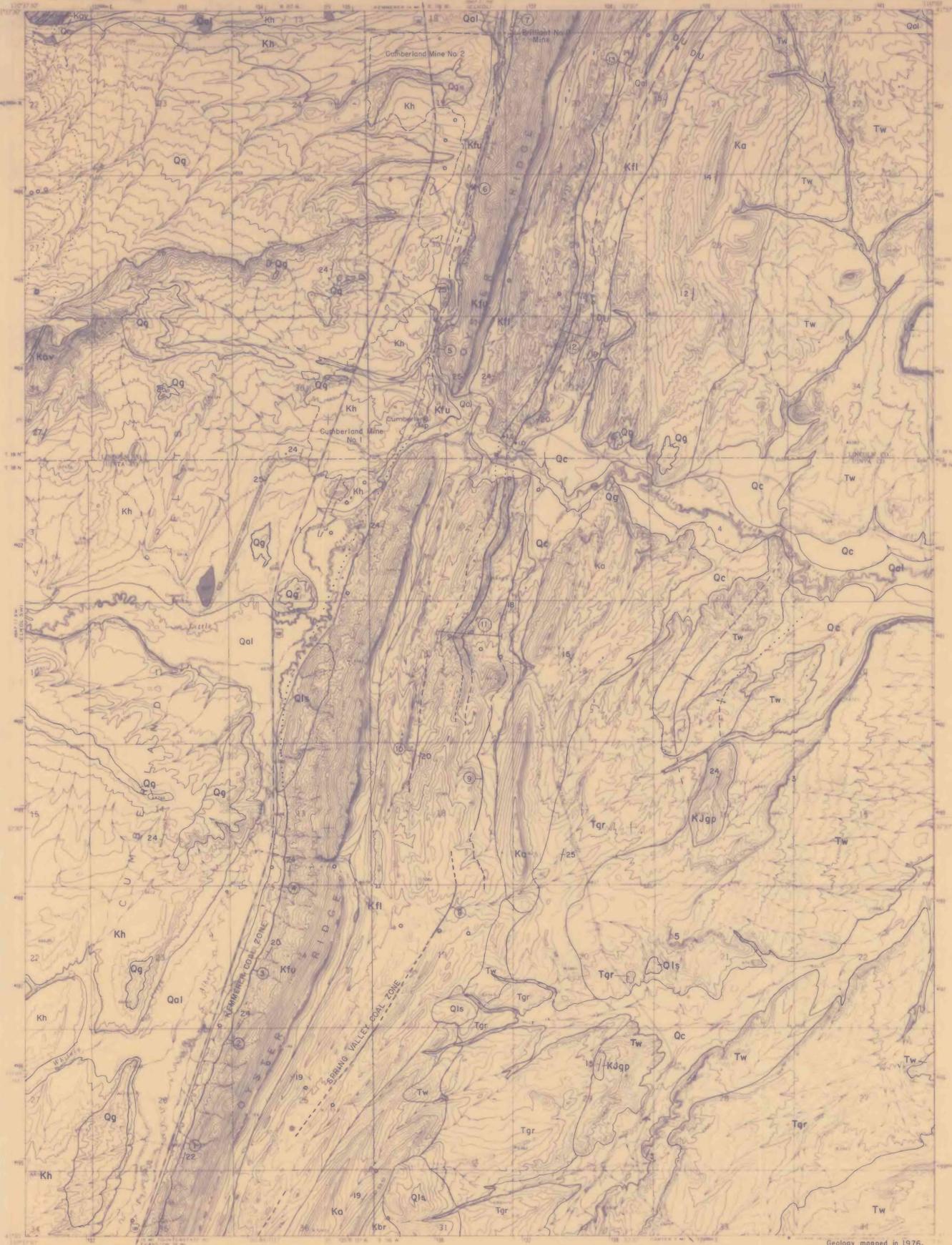
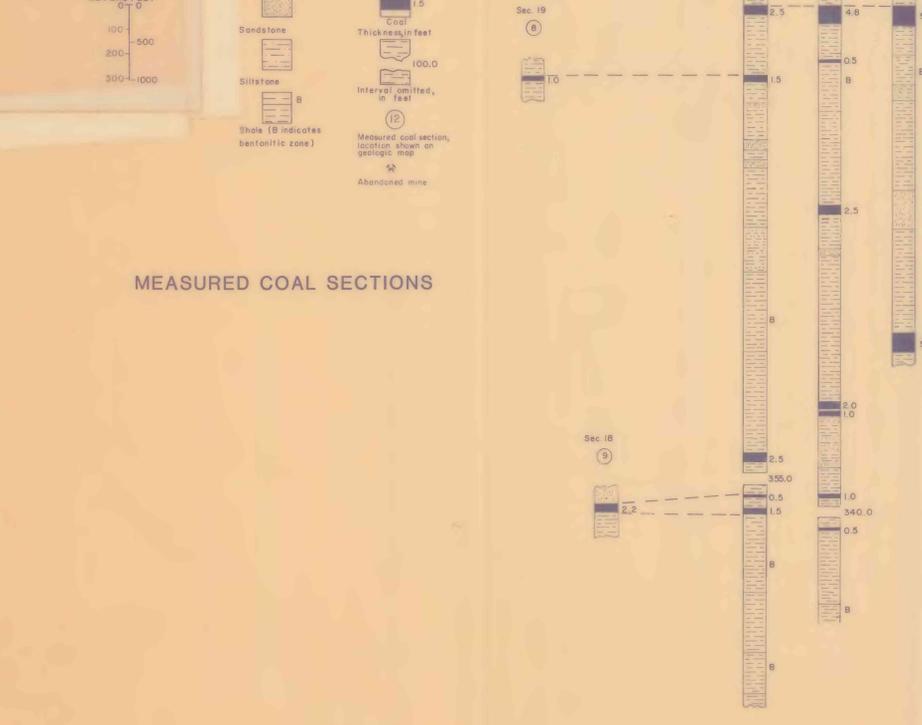
PARTIAL GENERALIZED STRATIGRAPHIC SECTION



EXPLANATION

- Sandstone
- Siltstone
- Shale (B indicates bentonitic zone)
- Coal
- Interval omitted, in feet
- Measured coal section, location shown on geologic map
- Abandoned mine

MEASURED COAL SECTIONS



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PRELIMINARY GEOLOGIC MAP AND COAL SECTIONS OF THE CUMBERLAND GAP QUADRANGLE, LINCOLN AND UINTA COUNTIES, WYOMING

MARVIN L. SCHROEDER AND ROBERT A. LUNCEFORD
1979

CUMBERLAND GAP WYO
1976
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