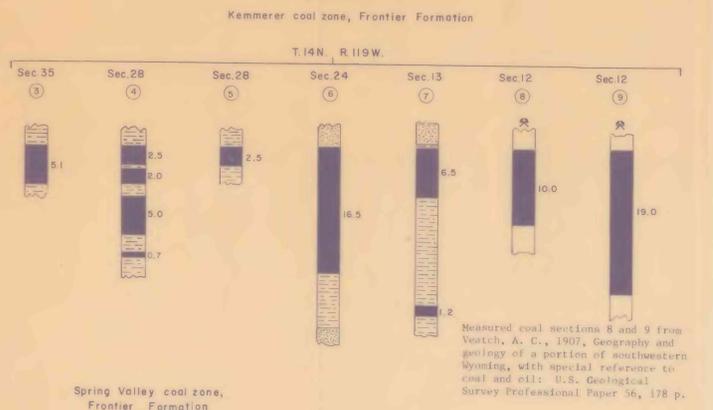


UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY
SULPHUR CREEK RESERVOIR QUADRANGLE WYOMING-UINTA CO. 7.5 MINUTE SERIES (TOPOGRAPHIC)



EXPLANATION

METERS FEET
0 0
1 1
2 2
3 3
4 4

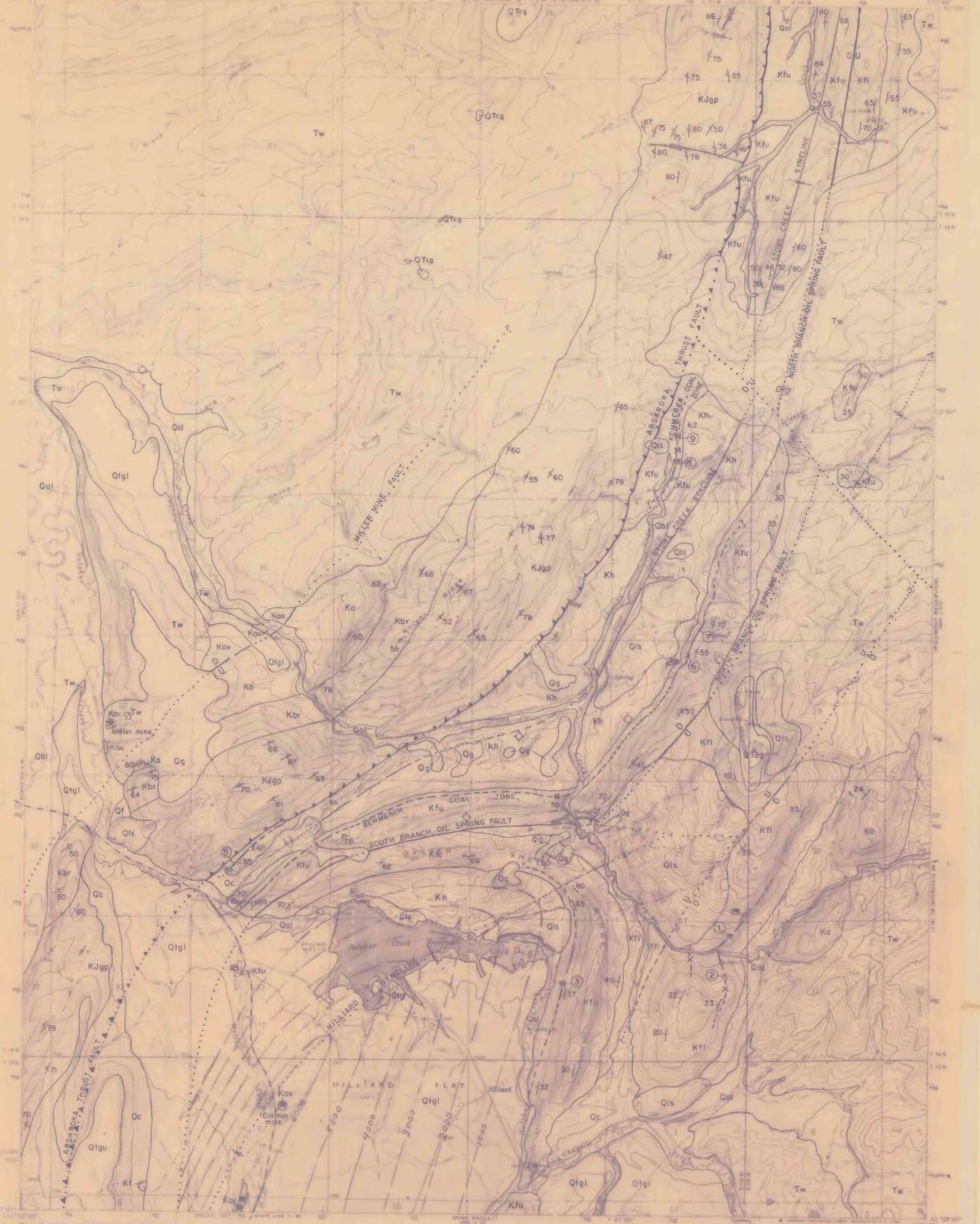
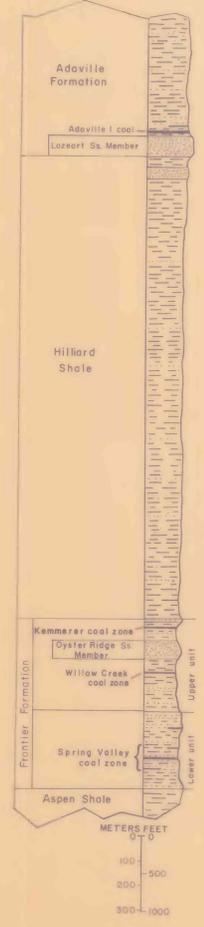
Sandstone
Siltstone
Shale

Coal
Thickness, in feet
Abandoned mine

Measured coal section, location shown on geologic map

MEASURED COAL SECTIONS

GENERALIZED STRATIGRAPHIC SECTION



CORRELATION OF MAP UNITS

Qc	Qal	Qf	Qls	Qgl	Qgu	Qg	Holocene	QUATERNARY
QTcg	Tw	Kav	Kh	Kfu	Kfi	Ka	Pleistocene and Pliocene(?)	
Kf	Kbr	KJgp					Eocene	TERTIARY
							Upper Cretaceous	CRETACEOUS
							Lower Cretaceous	
							Upper Jurassic	JURASSIC

- SURFICIAL DEPOSITS (HOLOCENE)**
- Qc Colluvium
 - Qal Alluvium
 - Qf Alluvial-fan deposits
 - Qls Landslide deposits
 - Qgl Lower terrace gravel deposits
 - Qgu Upper terrace gravel deposits
 - Qg Gravel deposits, undifferentiated
 - QTcg COBBLE GRAVEL (PLEISTOCENE AND PLOCENE)--Terrace gravel deposits about 700-800 ft above major stream drainages
- DESCRIPTION OF MAP UNITS**
- 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
 - Kav ADAVILLE FORMATION (UPPER CRETACEOUS)--Predominantly gray-brown weathering carbonaceous shale and mudstone. Contains beds of yellowish-brown to reddish-brown sandstone and siltstone and workable coal beds in lower part. Light-gray to white fine- to coarse-grained sandstone at base (Lozeart 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
 - Kf FRONTIER FORMATION (UPPER CRETACEOUS), UNDIVIDED
 - Kfu Upper unit--Upper part consists of gray shale and thin beds of gray sandstone, underlain by a prominent hogback of white- to light-gray-weathering, oyster-bearing sandstone (Oyster Ridge Sandstone Member); sequence underlain by a thick shale that contains Willow Creek coal zone in Kemmerer area to the north. About 1,200-1,400 ft thick
 - Kfi 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 1,000-1,250 ft thick
 - Ka ASPEN SHALE (LOWER CRETACEOUS)--Light- to dark-gray siltstone and shale, quartzitic sandstone, and porcellanite; forms prominent silver-gray hogbacks. About 900-1,000 ft thick east of Absaroka thrust and about 1,600-1,700 ft thick west of Absaroka thrust
 - 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 500-600 ft thick east of Absaroka thrust and about 1,400-1,500 ft thick west of Absaroka thrust
 - KJgp GANNETT GROUP (LOWER CRETACEOUS), STUMP SANDSTONE (UPPER JURASSIC), AND PREUSS RED BEDS (UPPER JURASSIC)--Total thickness about 1,200 ft thick east of Absaroka thrust and about 4,000 ft thick west of Absaroka thrust
- LEGEND**
- ② COAL BED--Dashed where approximately located; queried where doubtful. Circled number refers to measured coal section
 - CONTACT--Approximately located; dashed where projected above ground level
 - FAULT--Dashed where approximately located; dotted where concealed, queried where doubtful; U, upthrown side; D, downthrown side. Arrows show relative movement
 - THRUST FAULT--Sawtooth on upper plate; dotted where concealed
 - SYNCLINE--Showing troughline; dashed where approximately located; dotted where concealed
 - OVERTURNED SYNCLINE--Showing troughline; dotted where concealed
 - STRIKE AND DIP OF BEDS
 - Inclined
 - Overturned
 - Vertical
 - 2000- STRUCTURE CONTOURS--Dashed where control is less accurate and where projected over land surface. Drawn on top of Kemmerer coal zone. Contour interval 1,000 ft
 - ✖ COAL MINE--Inactive or abandoned
 - ✕ COAL PROSPECT
 - ABANDONED OIL-AND-GAS TEST HOLE

Mapped, edited, and published by the Geological Survey
Covered by US 28 and US 6405

Topography: photogrammetric methods from aerial photographs taken 1961. Final checked 1965

Projection: projection: 1927 North American datum, UTM-17N, and based on WGS84 coordinate system, with zone 17N

Scale: 1:50,000

Area covered by dashed lines refers to controlled jurisdiction

PRELIMINARY

GEOLOGIC MAP AND COAL RESOURCES OF THE SULPHUR CREEK RESERVOIR QUADRANGLE, UINTA COUNTY, WYOMING

By
Marvin L. Schroeder
1979

SULPHUR CREEK RESERVOIR, WYO.
141075-1045/7.5
1965
AND 2000 IN NE-SECTION 1045

ROAD CLASSIFICATION
Major road Light duty
Designated dirt

Scale: 1 inch = 1 mile

1 foot = 0.3048 meter

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