

CORRELATION OF MAP UNITS

Qa	Holocene and/or Pleistocene	QUATERNARY
Qtg	Pleistocene or upper Tertiary	
Tgw	Ecene	TERTIARY
Tgt		
Tglu		
Twn		

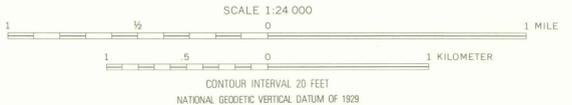
DESCRIPTION OF MAP UNITS

Qa	ALLUVIUM (HOLOCENE AND/OR PLEISTOCENE)—Unconsolidated gravel, silt, and clay. 0-50 feet (0-15 m) thick
Qtg	TERRACE GRAVELS (PLEISTOCENE OR UPPER TERTIARY)—Poorly consolidated small boulders, cobbles, and pebbles of red, tan, and white quartzite, gray limestone, hornblende gneiss, and varicolored chert in a soft gray-brown argillaceous sandstone matrix. Appears to be a relict stream-channel deposit. 0-10 feet (0-3 m) thick
Tgw	GREEN RIVER FORMATION (EOCENE): Wilkins Peak Member—Gray, gray-green and gray-brown silty to sandy mudstone, and thin interbedded tan and gray algal limestone, gray calcareous siltstone, and gray very fine grained sandstone in the upper part; brown flaky oil shale, and thin interbedded gray silty mudstone, tan and gray tuff, gray dolomitic siltstone, gray calcareous sandstone, gray-brown dolomite, brown ostracodal limestone, and gray algal limestone in the lower part; weathers to overall light gray color. Only the lower part is present in the Chicken Creek SW quadrangle
Tgt	Tipton Shale Member—Brown flaky oil shale, and interbedded brown and gray carbonaceous shale, tan silty tuff, tan tuffaceous siltstone, and gray very fine-grained to fine-grained sandstone; weathers to overall drab brown color. Intertongues extensively in the lower part with the Niland Tongue of the Wasatch Formation. 125-200 feet (40-60 m) thick
Tglu	Luman Tongue—Mostly brown flaky oil shale, and interbedded gray siltstone, gray very fine grained sandstone, gray mudstone, gray and brown carbonaceous shale and coal; abundant mollusks throughout; weathers to overall drab brown color. Intertongues in the upper part with the Niland Tongue and in the lower part with the main body of the Wasatch Formation. 450-525 feet (140-160 m) thick
Twn	WASATCH FORMATION (EOCENE): Niland Tongue—Gray mudstone and interbedded gray and brown carbonaceous shale, gray and brown siltstone, gray-brown dolomite and gray very fine grained partly mollusk-bearing sandstone. 225-325 feet (70-100 m) thick
Twm	Main body—Gray very fine grained partly crossbedded partly mollusk-bearing sandstone, and interbedded gray and brown carbonaceous shale, coal, gray and brown shale, gray and variegated mudstone, and gray siltstone. Only the upper part is exposed in the Chicken Creek SW quadrangle. 1575-2200 feet (480-670 m) thick (subsurface)

The term "oil shale" as used in this publication refers to heterogeneous rocks regardless of lithology or amount of oil yielded by Fischer assay.

- BOUNDARY OF STUDY AREA
- - - CONTACT—Dashed where approximately located
- - - STRATIGRAPHIC MARKER BED—Not correlative everywhere in the Chicken Creek SW quadrangle
- FAULT—Showing direction of dip and estimated displacement, in feet. Dashed where inferred; dotted where concealed. U, upthrown side; D, downthrown side
- FAULT TRACE ON STRUCTURE-CONTOURED HORIZON—Approximately located because datum surface has been destroyed by erosion
- COAL BED—Approximately located in some places. Thickness of coal, in feet, measured at triangle
- SYNCLINE—Showing troughline and direction of plunge
- ANTICLINE—Showing crestline and direction of plunge
- STRIKE AND DIP OF BEDS
- 7000—STRUCTURE CONTOURS—Drawn on top of the Tipton Shale Member of the Green River Formation (Tgt). Projected where datum is eroded and contours extend above ground surface. Contour interval 100 feet. Datum is mean sea level
- DRY HOLE OR ABANDONED GAS WELL—Showing operator and lease names
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- 2678—ABANDONED COAL MINE
- LINE OF MEASURED STRATIGRAPHIC SECTION
- VC-3—HOLE DRILLED FOR COAL
- VC-5—HOLE CORED FOR COAL

Base from U.S. Geological Survey, 1968
10,000-foot grid based on Wyoming coordinate system, west central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12



Geology modified from U.S. Geological Survey Geologic Quadrangle Map GQ-1443, 1978
Geology mapped by Henry W. Roehler, 1973, assisted by Jay Valcarlos

GEOLOGIC MAP OF THE CHICKEN CREEK SW QUADRANGLE, SWEETWATER COUNTY, WYOMING, AND MOFFAT COUNTY, COLORADO