



Geology from Andrews and others (1947),  
Rogers and others (1948), and M. E.  
Cooley, 1976

**EXPLANATION**

**CORRELATION OF MAP UNITS**

Q1	Q1c	Q11	Q12a	Q12b	Q12	Q13	Q14	Q15	Q1s	Qp	} QUATERNARY
Qk	Qay	Qs	Qao	Qab	Qc	Qd	Qe	Qf	Qg	Qh	
											} TERTIARY TO ORDOVICIAN

**DESCRIPTION OF MAP UNITS**

Q1 Flood-plain alluvium along Nowood and Bighorn Rivers and Tensleep, Paint Rock, Medicine Lodge, Canyon, Little Canyon, Spring, and Otter Creeks. Principal unit of the alluvial aquifer.

- Qk Alluvium in undissected low areas along tributaries, including internally drained depressions near Zeisman dome and Spring Creek.
- Qs Main alluvial deposits along tributaries, undifferentiated.
- Qay Younger generally undissected alluvial-fan deposits, including flood-plain alluvium along tributaries of Nowood and Bighorn Rivers and Tensleep, Paint Rock, Medicine Lodge, Canyon, Little Canyon Creek, Spring, and Otter Creeks.
- Qis Slump and landslide deposits.
- Qc Flood-plain alluvium in abandoned valley near Big Trails. Includes some alluvial-fan deposits.
- Qao Older dissected alluvial-fan deposits. Includes some flood-plain alluvium, undissected alluvial-fan deposits along small tributaries, and small exposures of sedimentary rocks.
- Qab Boulder-fan deposits between Paint Rock and Medicine Lodge Creeks northeast of Hyattville. Unit is part of alluvial aquifer.
- Qp Pediment deposits. Includes slope-wash, some terrace, alluvial-fan, and colluvial deposits and some exposures of the sedimentary rocks.

- TERRACE DEPOSITS**
- Q11 Terrace Q11 deposits. Top of deposits 30 to 45 feet above Nowood River.
  - Q12a Terrace Q12a deposits. Top of deposits 45 to 55 feet above Nowood and Bighorn Rivers.
  - Q12b Terrace Q12b deposits. Top of deposits 60 to 100 feet above Nowood and Bighorn Rivers. Top of deposits mainly 60 to 100 feet above Nowood River downstream of Paint Rock Creek, 60 to 90 feet between Paint Rock and Tensleep Creeks, and about 60 feet upstream of Tensleep Creek.
  - Q12 Terrace Q12 deposits, undifferentiated.
  - Q13 Terrace Q13 deposits. Top of deposits 120 to 150 feet above Nowood River.
  - Q14 Terrace Q14 deposits. Top of deposits 200 to 300 feet above Nowood and Bighorn Rivers, 220 to 240 feet above Paint Rock Creek, and 180 to 200 feet above Tensleep Creek.
  - Q15 Terrace Q15 deposits. Top of deposits 280 to 330 feet above Nowood River and 300 to 330 feet above Tensleep Creek.

- TOr Consolidated sedimentary rocks of early Tertiary to Ordovician age, consists in descending order of Fort Union Formation of early Tertiary age; Lance Formation, Meeteetse Formation, Mesaverde Formation, Cody Shale, Frontier Formation, Mowry Shale, Thermopolis Shale, and Cloverly Formation of Cretaceous age; Morrison, Sundance, and Gypsum Spring Formations of Jurassic age; Chugwater Formation of Triassic age; Goose Egg and Park City Formations of Permian age; Tensleep Sandstone of Permian and Pennsylvanian age; Ansdan Formation of Pennsylvanian age; Madison Limestone of Mississippian and Devonian age; and Bighorn Dolomite of Ordovician age.
- Contact, dashed where approximately located.
- Approximate location of axial plane of an anticline, showing direction of plunge.
- Approximate location of axial plane of a syncline, showing direction of plunge.
- Approximate location of axial plane of monocline.
- Fault. D, downthrown side; U, upthrown side.
- Direction of strike and dip of inclined beds.

Plate 1.--Geologic map showing distribution of the water-yielding and nonwater-yielding alluvial deposits in the Nowood River drainage area, Wyoming