PREPARED IN COOPERATION WITH
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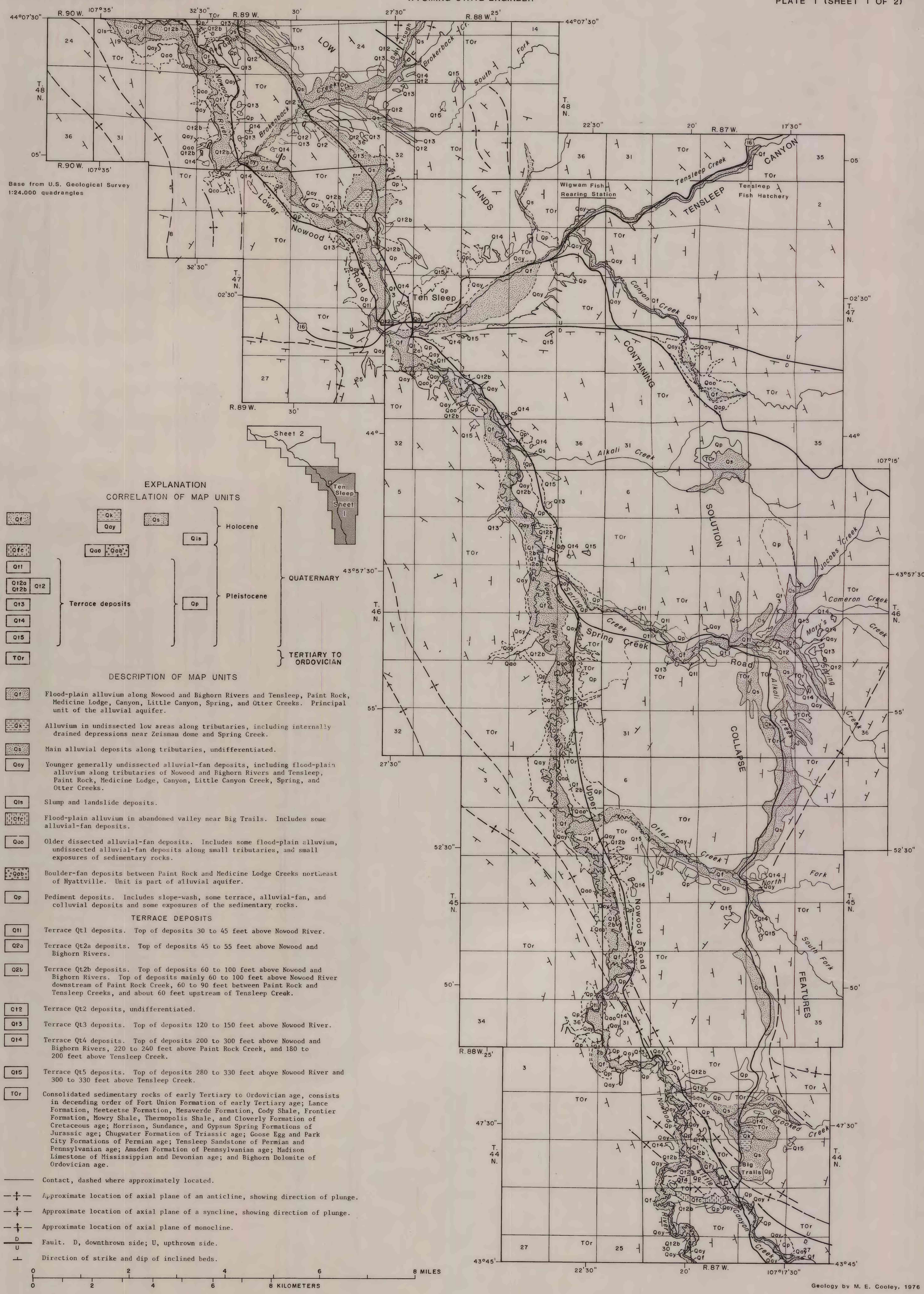

EXPLANATION

CORRELATION OF MAP UNITS

Qf	Qk, Qay	Qs	Holocene
Qfc	Qao, Qab	Qls	Holocene
Qt1, Qt2a, Qt2b, Qt2, Qt3, Qt4, Qt5	Terrace deposits	Qp	Pleistocene
			QUATERNARY
TOr			TERTIARY TO ORDOVICIAN

DESCRIPTION OF MAP UNITS

Qf 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.

Qls Slump and landslide deposits.

Qfc 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

Qt1 Terrace Qt1 deposits. Top of deposits 30 to 45 feet above Nowood River.

Qt2a Terrace Qt2a deposits. Top of deposits 45 to 55 feet above Nowood and Bighorn Rivers.

Qt2b Terrace Qt2b 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.

Qt2 Terrace Qt2 deposits, undifferentiated.

Qt3 Terrace Qt3 deposits. Top of deposits 120 to 150 feet above Nowood River.

Qt4 Terrace Qt4 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.

Qt5 Terrace Qt5 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 decending 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; Amsden 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.

0 2 4 6 8 MILES
0 2 4 6 8 KILOMETERS

Geology by M. E. Cooley, 1976

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