

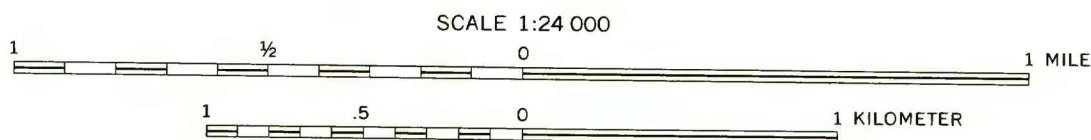
105 22 30

47 07 30



Base from U. S. Geological Survey

Geology mapped in 1980 and 1981

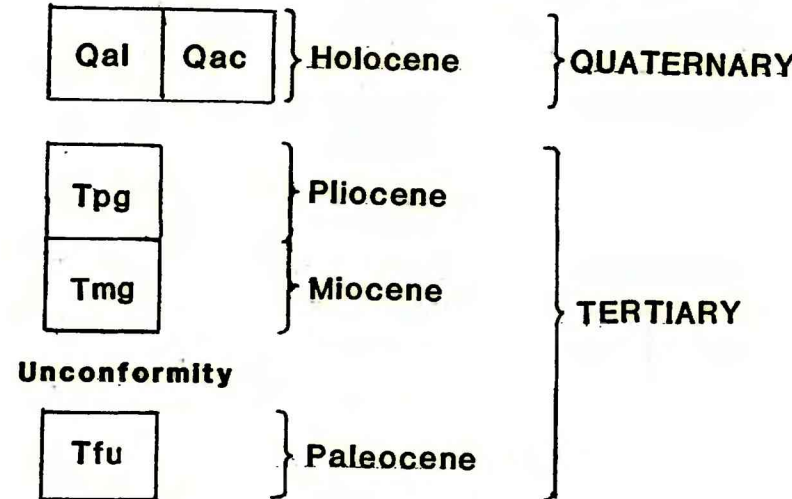


GEOLOGIC MAP OF THE DIAMOND G BUTTE QUADRANGLE, DAWSON, MCCONE, AND PRAIRIE COUNTIES, MONTANA

By

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CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

- Qal Alluvium (Holocene)**--Light-brown and gray, well-stratified and well-sorted clay, silt, sand, and gravel. As much as 6 m (20 ft) thick under the flood plains of East Fork, Middle Fork, and West Forks of Bad Route Creek to less than 3 m (10 ft) under flood plains of smaller streams. Unit limited to areas characterized by meander or braided patterns on aerial photographs. Surface of unit may be subject to occasional flooding
- Qac Alluvium and colluvium (Holocene)**--Light-brown and gray, poorly sorted and well-stratified clay, silt, sand, and gravel deposited by slope wash and gravity processes. As much as 10 m (33 ft) thick, but generally less than 5 m (16 ft). The color and texture of the colluvium reflect the parent material upslope. May interfinger with alluvium; includes alluvial fans and much windblown clay, silt, and sand. Soil profiles range from well-developed to poorly developed
- Tpg Sand and gravel, undivided (Pliocene)**--Light-brown to light-gray, well-stratified and well-sorted sand and gravel. Thickness is as much as 10 m (33 ft), but generally less than 3 m (10 ft). Unit generally limited to altitudes below 928 m (3,040 ft) and 854 m (2,800 ft). May contain some Pleistocene sand and gravel
- Tmg Sand and gravel, undivided (Miocene)**--Light-brown to light-gray, well-stratified to poorly stratified, and well-sorted to poorly sorted sand and gravel. Unit caps Diamond G Butte in south-central part of quadrangle where it is as much as 24 m (80 ft) thick. Base of unit is at an altitude of 954 m (3,130 ft). May include some Pliocene sand and gravel
- Tfu Tongue River Member (Collier and Knechtel, 1939) of Fort Union Formation (Paleocene)**--Yellowish- and light-brown shale and sandstone containing numerous lignite beds. Estimated thickness is more than 183 m (600 ft)

- w Water
- Contact--Dashed where approximately located
- X Gravel pit

REFERENCE

Collier, A.J., and Knechtel, M.N., 1939, The coal resources of McCone County, Montana: U.S. Geological Survey Bulletin 905, 80 p.

106°								108°							
JOHNSON COULEE EAST 88-610	BROCKWAY NE 88-631	YOUNGQUIST MINE 88-627	CIRCLE 88-630	WOODWORTH HILL 88-626	OLSON COULEE NORTH 88-620	JOHNSON RESERVOIR NW 88-613	JOHNSON RESERVOIR NE 88-611								
BEAUTY CREEK 88-636	BROCKWAY 88-623	CIRCLE SW 88-629	QUICK RESERVOIR 88-618	MOUNT ANTELOPE 88-616	OLSON COULEE SOUTH 88-621	DEER CREEK CHURCH 88-628	JOHNSON RESERVOIR 88-609								
BERRY SCHOOL 88-632	WATKINS 88-621	BIG SHEEP MOUNTAIN NW 88-622	BEARSHACK CREEK 88-634	DIAMOND G BUTTE NW 88-607	UNION SCHOOL 88-617	LINDSAY 88-614	WOODROW 88-625								
HEITZ SCHOOL 88-608	WATKINS SE 88-624	BIG SHEEP MTN 88-628	BECKER DAM 88-633	NORTH COULEE 88-619	DIAMOND G BUTTE 88-635	LINDSAY SW 88-615	UPPER CRACKER BOX SCHOOL 88-612								
47°30'								47°30'							

INDEX TO QUADRANGLES IN THE CIRCLE 30' x 60' QUADRANGLE. MAPPED
QUADRANGLE SHOWN BY STRIPES; NUMBERS ARE OPEN-FILE NUMBERS

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