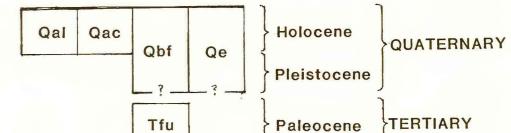


CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

- Alluvium (Holocene)--Light-brown and gray, wellstratified and well-sorted clay, silt, sand, and gravel. As much as 3 m (10 ft) thick under the flood plain of Beauty Creek to less than a few meters under flood plains of tributaries. Unit limited to areas characterized by meander or braided patterns on aerial photographs. Subject to occasional flooding
- Qac Alluvium and colluvium (Holocene)--Lightbrown and gray, poorly sorted and well-stratified clay, silt, sand, and gravel deposited by gravity and slope wash. 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 welldeveloped to poorly developed
- Baked and fused bedrock (clinker) (Holocene to Pleistocene)--Red to orange baked shale, sandstone, and siltstone of the Fort Union Formation that was heat-metamorphosed by combustion of lignite. Hard, dense, metamorphosed sediments are known as porcellanite; locally, sediments fused and melted to form black, vesicular, glassy, scoriaceous rock called buchite, which forms linings of chimneys and veins in porcellanite. As much as 8 m (26 ft) thick, but generally less than 4 m (13 ft)
- Qe Eolium (Holocene to Pleistocene)--Light-brown to light-gray clay, silt, sand, granules, and pebbles. Pebbles were carried up into eolium by bioturbation. Present mainly as a thin veneer as much as 2 m (6 ft) thick
- Tfu Tongue River Member (Collier and Knechtel, 1939) of Fort Union Formation (Paleocene)-Yellowish- to light-brown shale and sandstone containing numerous lignite beds. Estimated thickness is at least 125 m (400 ft)
- w Water
- Contact—Dashed where approximately located

REFERENCE CITED

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

COULEE EAST 88-610	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	BROCKWAY 88-623	CIRCLE 5W 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 93-521	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	BIQ SHEEP MTN 93-529	BECKER DAM 88-633	NORTH COULEE	DIAMOND G BUTTE 88-635	LINDSAY SW 88-615	UPPER CRACKER BOX SCHOOL 88-612

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

GEOLOGIC MAP OF THE BEAUTY CREEK QUADRANGLE, McCONE COUNTY, MONTANA

1994

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