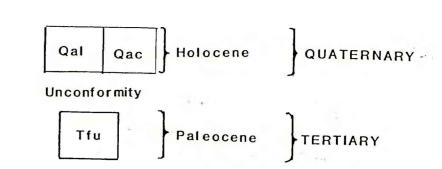


## CORRELATION OF MAP UNITS



## **DESCRIPTION OF MAP UNITS**

- Alluvium (Holocene)--Light-brown and gray, well-stratified and well-sorted clay, silt, sand, and gravel. Thickness ranges from as much as 4 m (13 ft) under the flood plain of Nelson Creek to less than 2 m (6 ft) under flood plains of tributary 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 gravity processes and slope wash. Color and texture of colluvium reflect the parent material upslope. May interfinger with alluvium; includes alluvial fans and thin veneer of windblown clay, silt, and sand. As much as 10 m (33 ft) thick, but generally less than 5 m (16 ft). Soil profiles range from well-developed to poorly developed
- Tfu Tongue River Member (Collier and Knechtel, 1939)
  of Fort Union Formation (Paleocene)--Yellowishto light-brown shale and sandstone containing
  numerous lignite beds. Base not exposed; maximum
  exposed thickness is estimated to be more than 100
  m (330 ft)
- Water
- Contact--Dashed where approximately located
- Abandoned coal mine
- Scarp--Hachures on down side

## REFERENCE

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

JOHNSON COULEE	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	CIRCLE  BW  88-629	QUICK RESERVOIR 88-618	MOUNT ANTELOPE 88-616	OLSON COULEE BOUTH 88-621	DEER CREEK CHURCH 88-628	JOHNSON RESERVOIR 88-609
BERRY 8CHOOL 88-632	WATKINS	SHEEP MOUNTAIN NW 88-622	BEARSHACK CREEK 88-634	DIAMOND  Q BUTTE  NW 88-607	UNION  BCHOOL  88-617	LINDSAY	woodrow 88-625
HEITZ SCHOOL 88-608	WATKINE SE:	BIQ BHEEP MTN 93-529	DECKER DAM 88-633	NORTH COULEE 88-619	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 JOHNSON COULEE EAST QUADRANGLE, MCCONE COUNTY, MONTANA

By

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1994