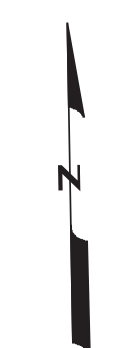
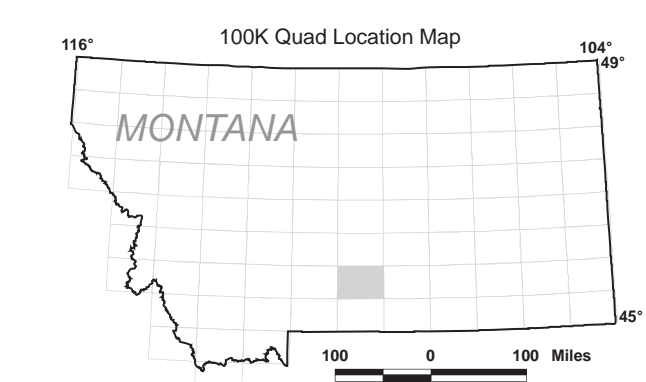


- MAP UNITS**
- Qal Alluvium of modern channels and flood plains
 - Qc Colluvium
 - Qaf Alluvial fan deposit
 - Qls Landslide deposit
 - Qcg Pediment gravel deposits
 - Qgm Glacial moraine
 - Qat Alluvium of alluvial terrace deposit
 - Qat1 Alluvium of youngest alluvial terrace level
 - Qat2 Alluvium of second youngest alluvial terrace level
 - Qat3 Alluvium of third youngest alluvial terrace level
 - Qat4 Alluvium of fourth youngest alluvial terrace level
 - Qat5 Alluvium of fifth youngest alluvial terrace level, oldest
 - Tal Alluvium of alluvial terrace deposit
 - Ttr Tongue River Member of Fort Union Formation
 - Tls Lobe Member of Fort Union Formation
 - Tt Tuback Member of Fort Union Formation
 - Khc Hill Creek Formation
 - Kc Doolite
 - Ksr Siderock Mountain Formation, informal, of Livingston Group
 - Ks Beesraw Shale
 - Kj Judith River Formation
 - Kcl Chaggett Shale
 - Ka Eagle Formation
 - Kt Telegraph Creek Formation
 - Ki Nidrean Formation
 - Ksf Nidrean Formation through Belle Fourche Formation, undivided
 - Kf Frontier Formation
 - Kmf Mooney Formation through Fall River Formation, undivided
 - Kv Kovenan Formation
 - Jm Morrison Formation
 - Jc Elbe Group, undivided
 - Tc Chugwater Formation
 - PMaA Phosphoria, Quadriant Formations, Arden Formations
 - Mm Madison Group, undivided
 - DDs Sedimentary rocks, undivided
 - Ca Sedimentary rocks, undivided



Partial support has been provided by the STATEMAP component of the National Cooperative Geologic Mapping Program of the U.S. Geological Survey under Contract Number 99-HQ-AG-0130.
 GIS production: Ken Sandus and Paul Thule, MBMG
 Map layout: Susan Smith, MBMG



Quad index

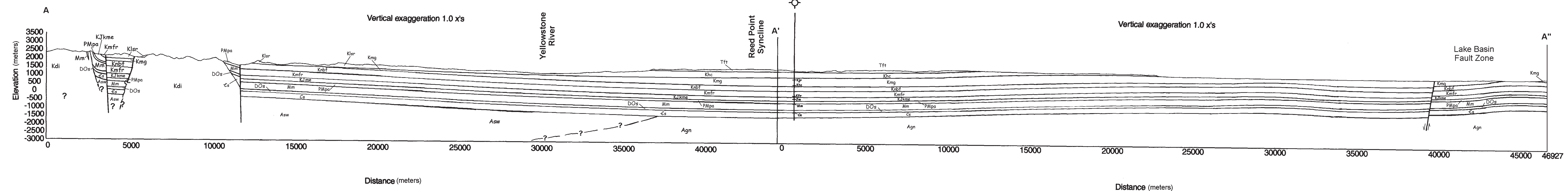
RINGLING	HARLOWTON	ROUNDUP
LIVINGSTON	BIG TIMBER	BILLINGS
GARDNER	RED LODGE	BRIDGER

Base from U.S. Geological Survey
 Big Timber 30'x60' topographic quadrangle
 Map date: 1979
 Projection: UTM zone 12, 1927 NAD



Profile from A - A'

Profile from A' - A''



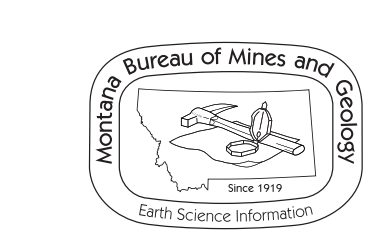
Montana Bureau of Mines and Geology
 Open File 405

**Geologic Map of the
 Big Timber 30' x 60' Quadrangle,
 South-Central Montana**

David A. Lopez

2000

Revised	Date
Map	9/01
Map and text	12/02



Maps may be obtained from
 Publications Office
 Montana Bureau of Mines and Geology
 1300 West Park Street, Butte, Montana 59711-8997
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