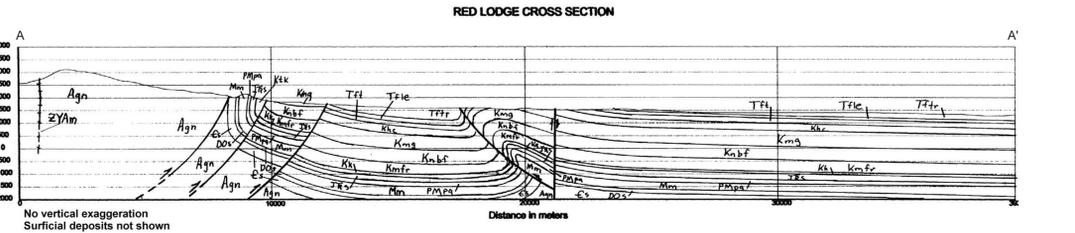


- MAP UNITS**
- Artificial fill, large dams, freeway interchanges
 - Alluvium of modern channels and flood plains
 - Pediment gravel deposits
 - Caliche
 - Alluvial fan deposit
 - Talus deposit
 - Landslide deposit
 - Glacial deposits, undivided
 - Alluvium of alluvial terrace deposit
 - Alluvium of youngest alluvial terrace level
 - Alluvium of second youngest alluvial terrace level
 - Alluvium of third youngest alluvial terrace level
 - Alluvium of fourth youngest alluvial terrace level
 - Alluvium of fifth youngest alluvial terrace level, oddset
 - Intrusive rocks, undivided
 - Basalt, intrusive
 - Dacite porphyry
 - Diorite
 - Andesite
 - Volcanic rocks, undivided
 - Unley Conglomerate member of Fort Union Formation
 - Tongue River Member of Fort Union Formation
 - Lobo Member of Fort Union Formation
 - Tullock Member of Fort Union Formation
 - Intrusive rocks, undivided
 - Hall Creek Formation
 - Lance Formation
 - Syenite
 - Diorite
 - Silverlock Mountain Intr., Informal, Member of Livingston Gp.
 - Bearpaw Shale
 - Judith River Formation
 - Chagrin Shale
 - Eagle Formation
 - Telegraph Creek Formation
 - Montana Group, undivided
 - Telegraph Creek and Nebraska Formations, undivided
 - Frontier Formation
 - Mowry Shale
 - Thermopsis and Fall River Formations, undivided
 - Thermopsis, Fall River, and Kootenai Formations, undivided
 - Kootenai Formation
 - Kootenai and Morrison Formations, undivided
 - Morrison Formation
 - Ellis Group, undivided
 - Sedimentary rocks, undivided
 - Chugwater Formation
 - Phosphoria, Quadrant, and Arnsden Formations
 - Medison Group, undivided
 - Sedimentary rocks, undivided
 - Sedimentary rocks, undivided
 - Bighorn Dolomite
 - Sedimentary rocks, undivided
 - Paleozoic rocks, undivided
 - Mafic intrusive rocks
 - Hornblende quartz diorite (Achean)
 - Granitic rocks
 - Lower mixed and middle zones - Stillwater Complex
 - Lower anorthosite zone - Stillwater Complex
 - North and lower gabbro zones - Stillwater Complex
 - Bronzite zone - Stillwater Complex
 - Pandolite zone - Stillwater Complex
 - Gneissic rocks
 - Melanitic and metagabbro
 - Ultramafic rock
 - Biotite schist
 - Amphibolite and hornblende gneiss
 - Schist and Hornfels
 - Metamorphic rocks, undivided

RED LODGE, MONTANA-WYOMING
 45109-A1-TM-100
 1989

Base from U.S. Geological Survey
 Red Lodge 30'x60' topographic quadrangle
 Map date: 1991
 Projection: UTM zone 12: 1927 NAD

SCALE 1:100 000
 1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
 CONTOUR INTERVAL 20 METERS



Montana Bureau of Mines and Geology
 Open File No. 423

**Preliminary Geologic Map of the
 Red Lodge 30' x 60' Quadrangle
 South-Central Montana**

David A. Lopez
 2001

Revised	Date
Map	9/01
Map and text	12/02
Map	10/04

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