Montana Bureau of Mines and Geology Open File No. 554

Geologic Map of the Plains 30' x 60' Quadrangle, Western Montana

Mapped by Jeffrey D. Lonn, Larry N. Smith, and Robin M. McCulloch

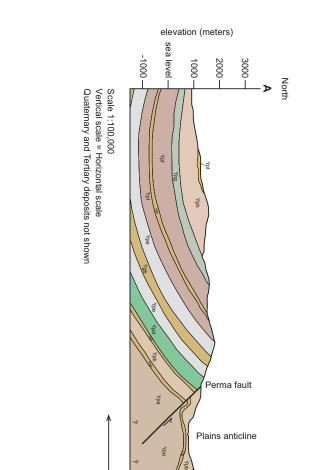
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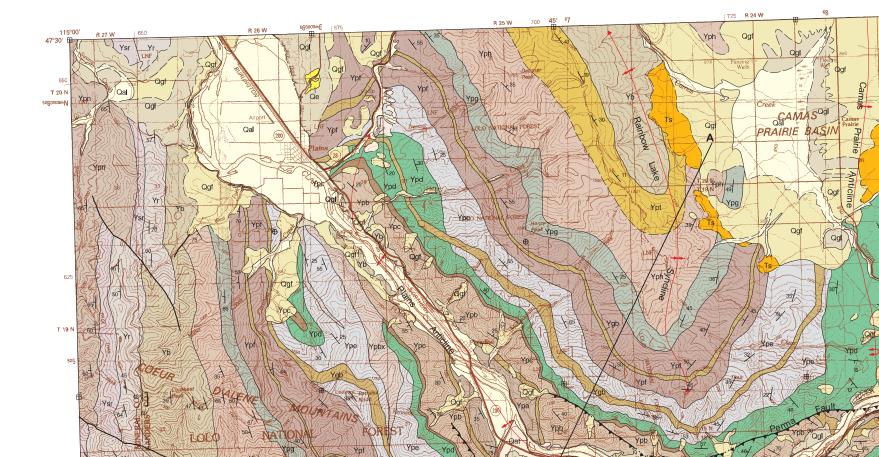
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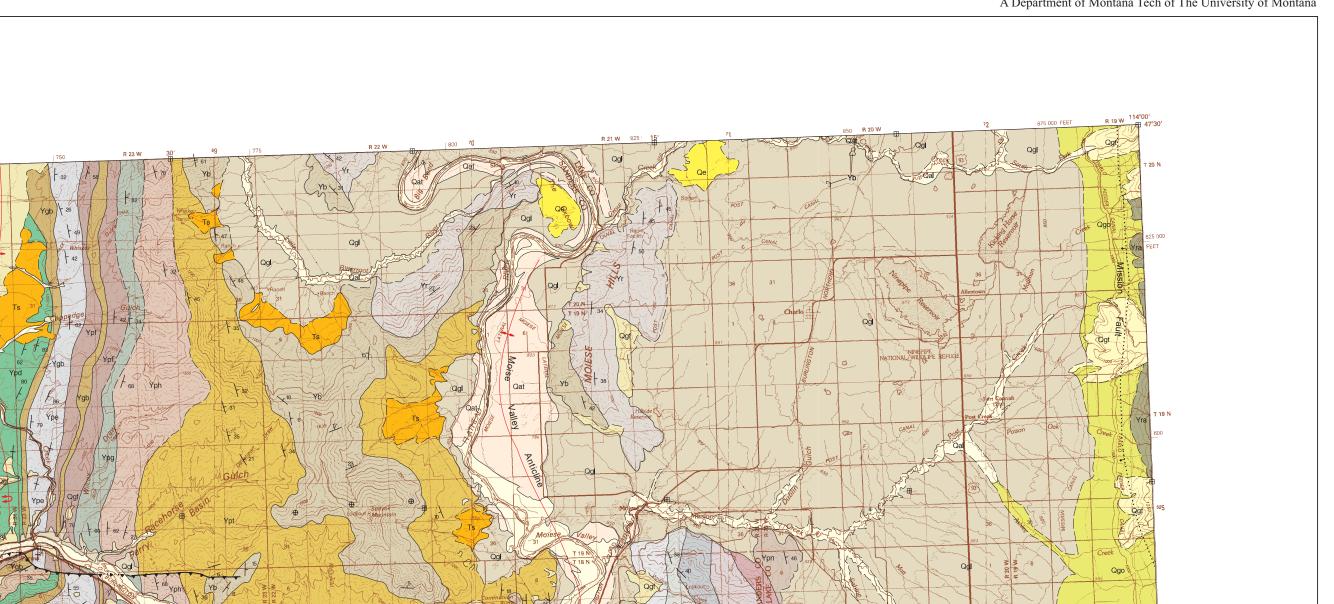
For the text files with the map information, click here.

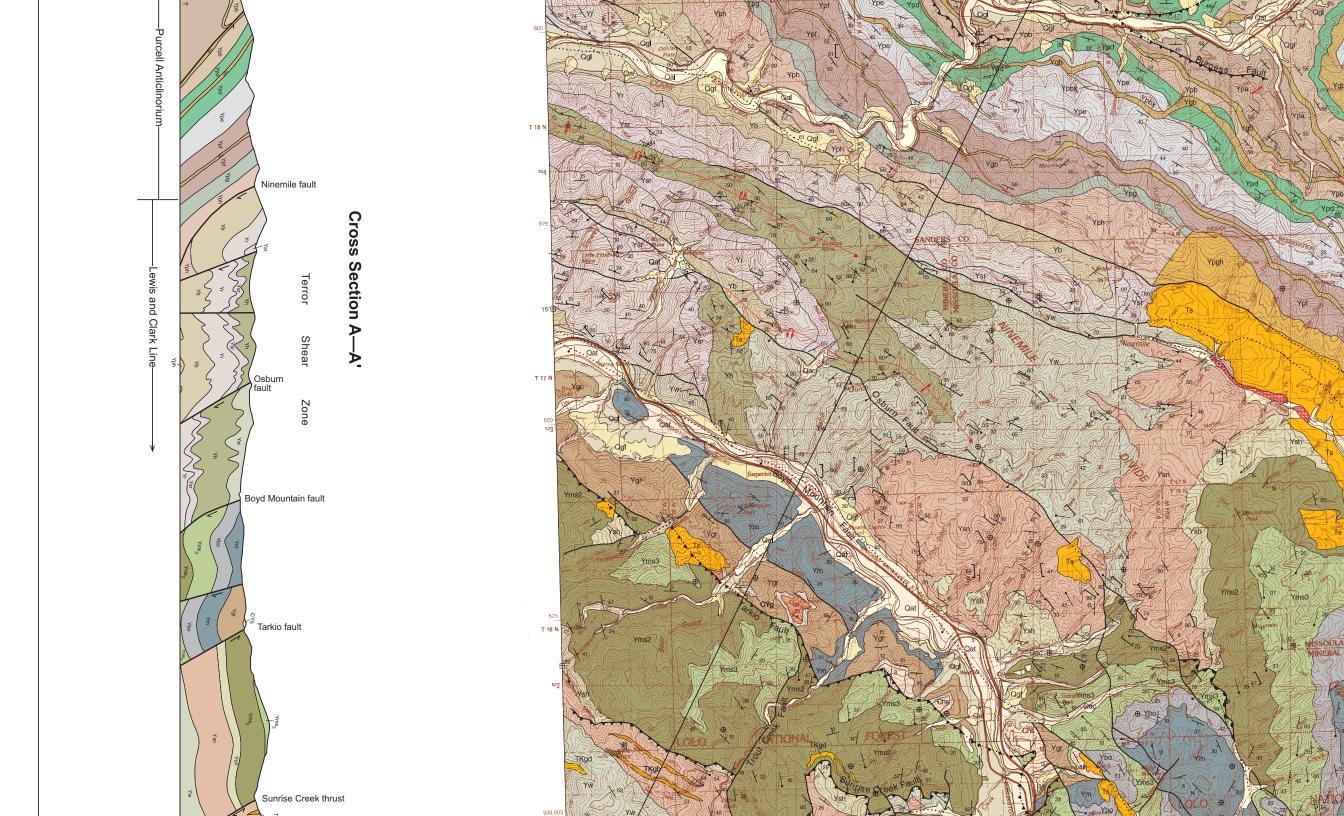
Note— This map was originally published at a scale of 1;100,000 but the page sizes have been modified to fit the average printer capabilities (8½ x 14; legal size paper). There is a an eighth inch overlap on these pages. A full sized colored print of this map can be ordered from the MBMG Publication Sales Office, 1300 West Park Street, Butte, MT, 59701-8997.

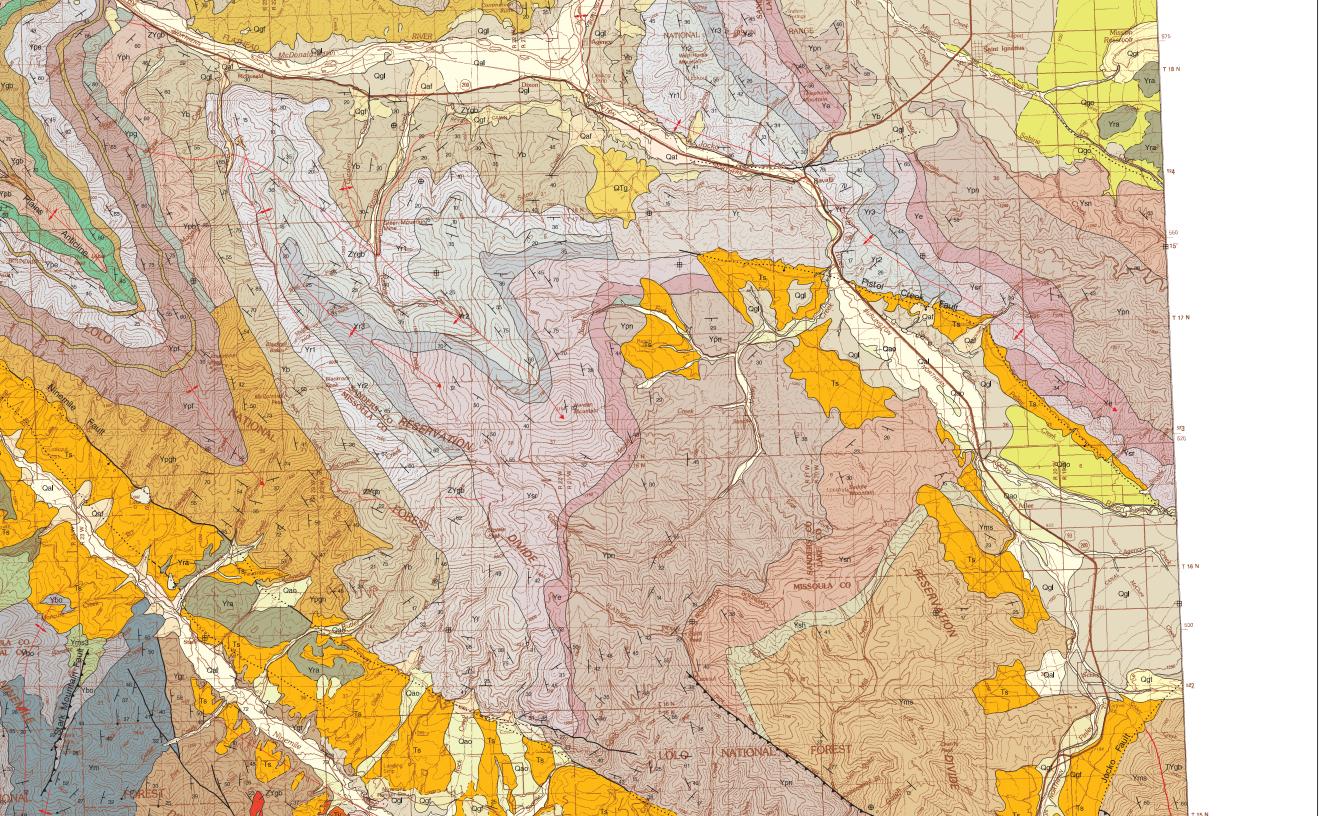
Phone: 406-496-4167 Email: pubsales@mbmg.mtech.edu

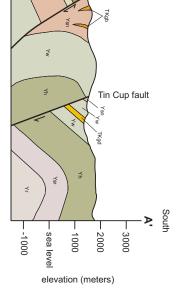










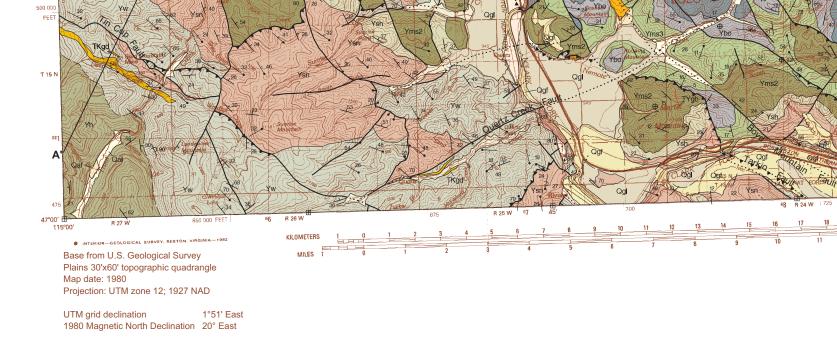


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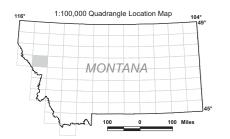
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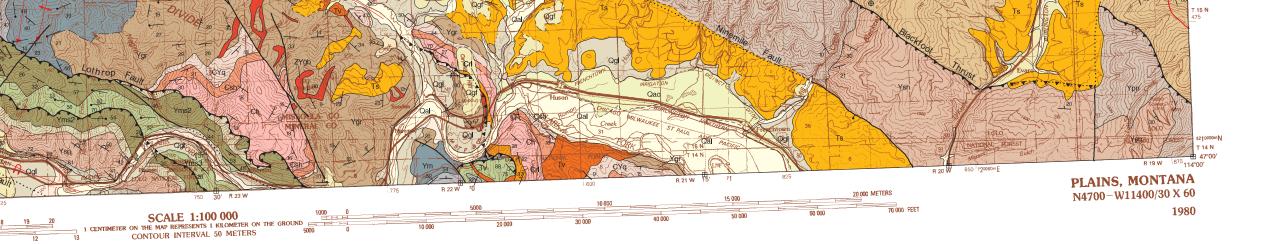
Quadrangle index

_				
116	6° 11	5° 11	4° 1	13° ¬48°00'
	THOMPSON FALLS	POLSON	SWAN PEAK	48°00
	WALLACE	PLAINS	SEELEY LAKE	47°00'
	HEAD- QUARTERS	MISSOULA WEST	MISSOULA EAST	74, 00



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 06HQAG0029.

GIS production: Ken Sandau and Paul Thale, MBMG. Map layout: Susan Smith, MBMG.



MAP UNITS

Qal	Alluvium of modern channels and flood plains
Qao	Alluvium, older, undivided
Qat	Alluvium of alluvial terrace

Qaf Alluvial fan deposit

Qac Alluvium and colluvium, undivided

Qe Eolian deposit

Qgf Glacial flood deposits

Qgl Glacial lake deposit

Qgo Glacial outwash deposit

Qgt Glacial till

Qls Landslide deposit

QTg Quaternary and Tertiary? gravels

Tv Volcanic rocks, undivided

Ts Sediment or sedimentary rocks, undivided

TKgb Gabbroic and dioritic dikes and sills

Granodiorite and quartz diorite

TYgb Gabbro and diorite

CYg Pilcher and Flathead Formations

Chs Hasmark and Silverhill Formations, undivided

Ch Hasmark Dolomite

Crl Red Lion Formation

Csh Silver Hill Formation

ZYgb Gabbro and diorite

Ygr Garnet Range Formation

Ym McNamara Formation

Ybo Bonner Formation

Yms Mount Shields Formation

Yms3 Mount Shields Formation, third member, informal

Yms2 Mount Shields Formation , second member, informal

Ysh Shepard Formation

Ysn Snowslip Formation

Ypn Piegan Group

Yw Wallace Formation

Yh Helena Formation

e Empire Formation

Yra Ravalli Group

St. Regis Formation

Yr Revett Formation

Yr3 Revett Formation, member 3

Yr2 Revett Formation, member 2

Yr1 Revett Formation, member 1

Yb Burke Formation

Ypt Prichard Formation, transitional member, informal

Ypgh Prichard Formation, members g and h

Yph Prichard Formation, member h

pg Prichard Formation, member g

Prichard Formation, member f

Ypbx Prichard Formation, breccia unit

Ygb Gabbro and diorite

Ype Prichard Formation, member e

pd Prichard Formation, member d

Prichard Formation, member c

pb Prichard Formation, member b

Prichard Formation, argillite member, informal

me Mine dump





Maps may be obtained from
Publications Office
Montana Bureau of Mines and Geology
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For a more detailed description of the map units and symbols, please refer to the text accompanying this map.