

Montana Bureau of Mines and Geology
Open File No. 478

Geologic and Structure Contour Map of the
Sidney 30' x 60' Quadrangle,
Eastern Montana and adjacent North Dakota

Compiled and mapped by
Susan M. Vuke, Edith M. Wilde, and Larry N. Smith

2003

To view a full scale version of this map, [click here](#).

For the text files with the map information, [click here](#).

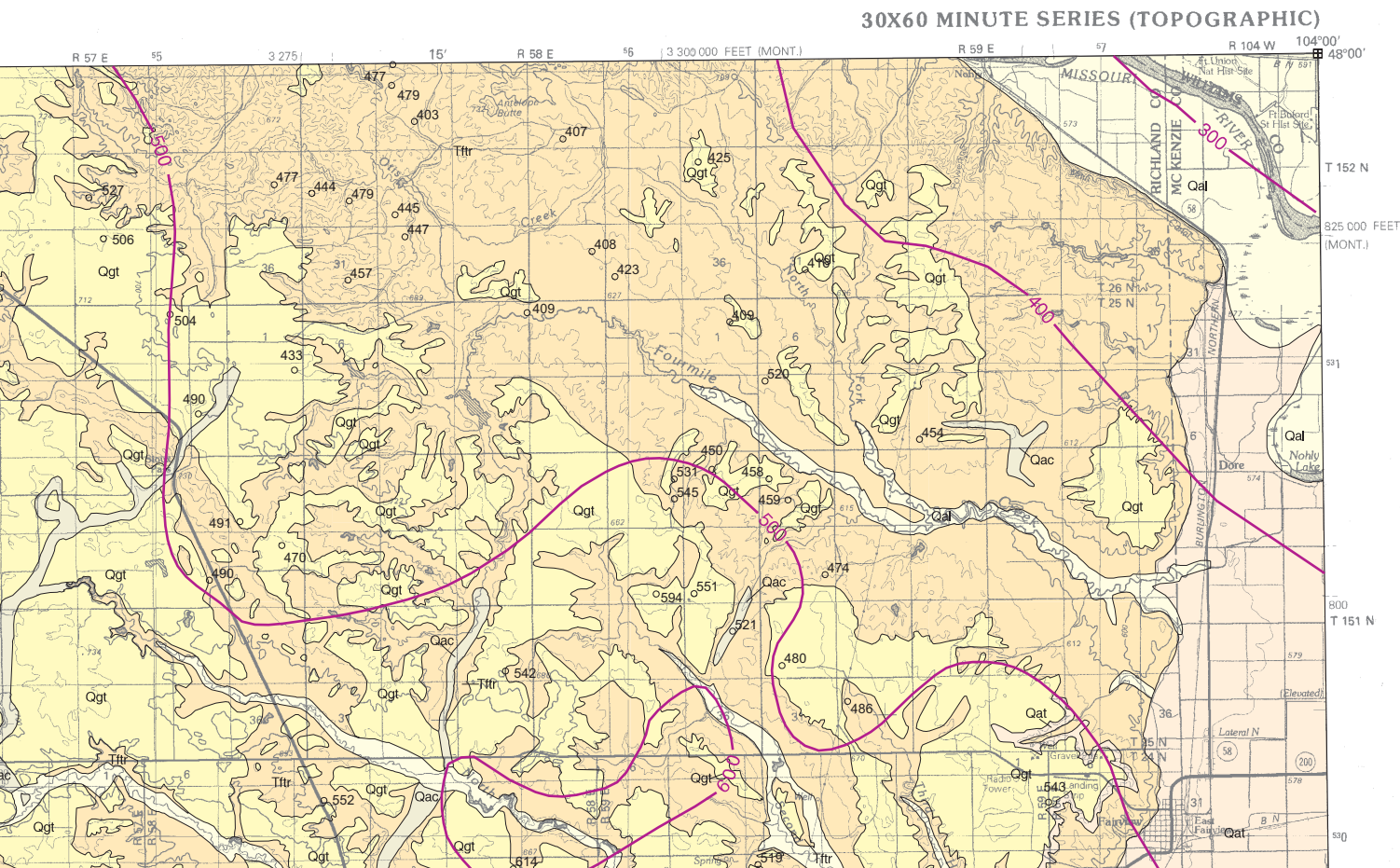
[Digital data link](#)

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.**

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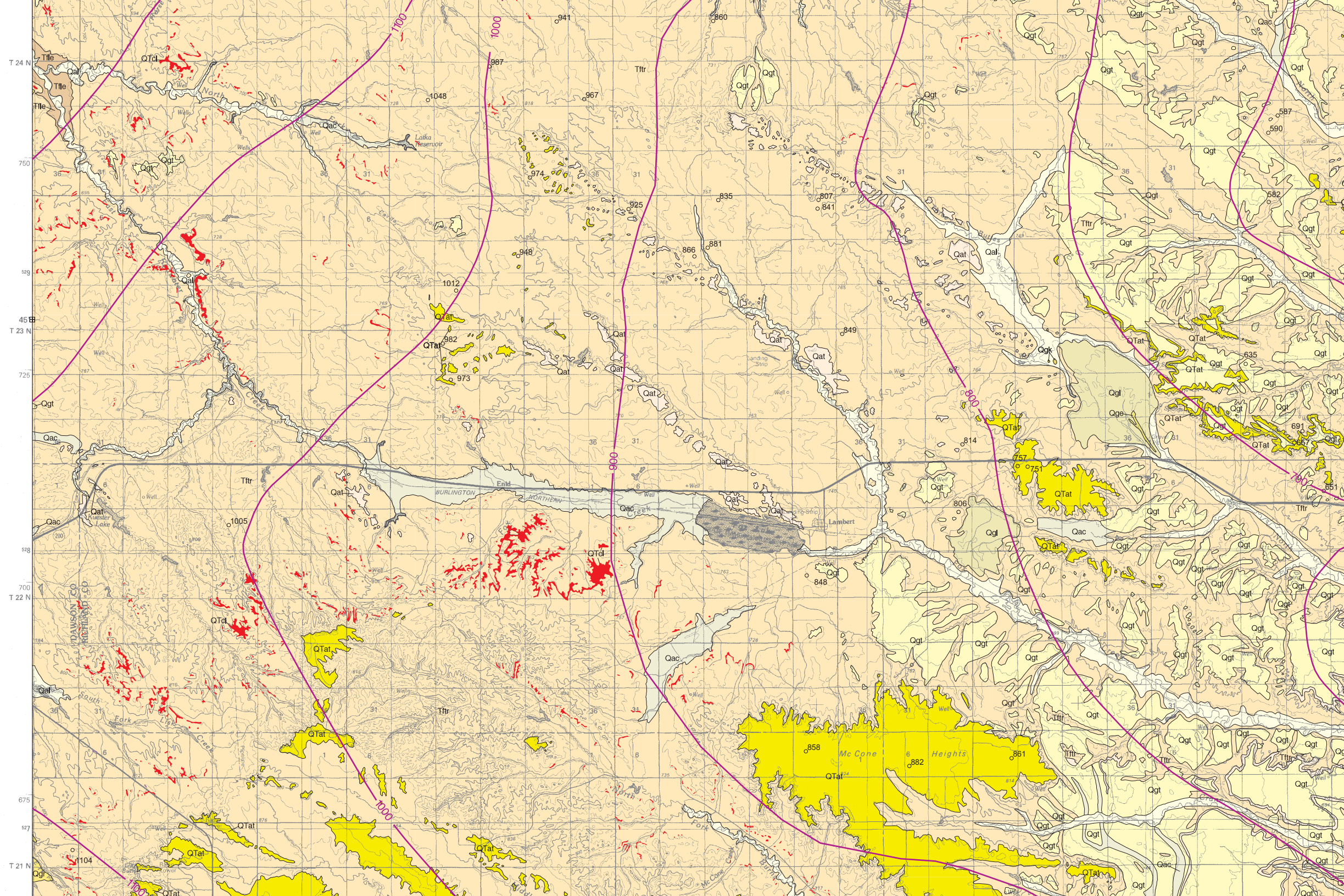
Email: pubsales@mbmg.mtech.edu

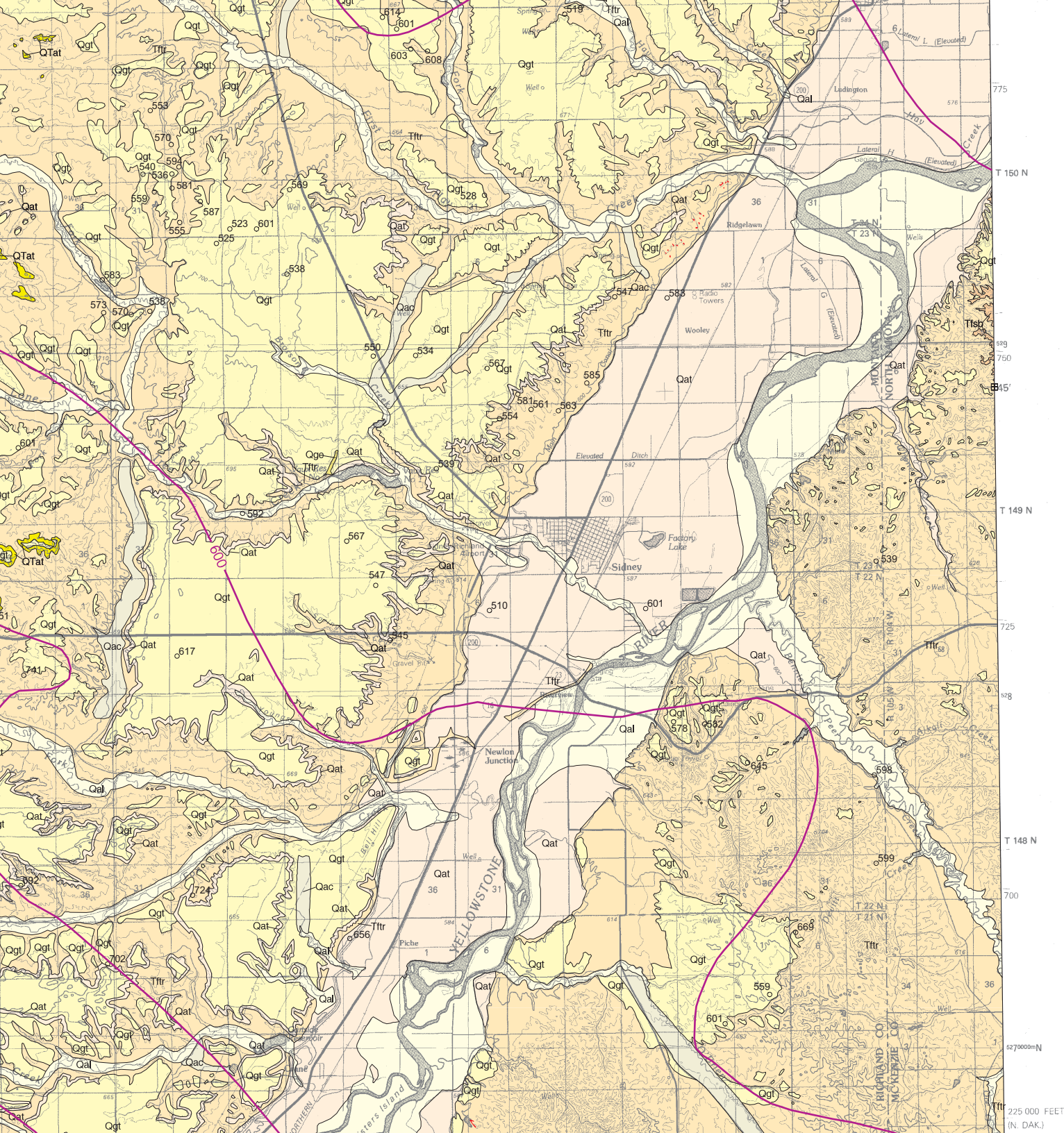
This is a detailed topographic map of the Sidney, Montana-North Dakota area. The map features a grid system with coordinates ranging from 105°00' to 103°00' West and 48°00' to 46°00' North. Elevation contours are shown in brown, with major contours labeled every 100 feet (e.g., 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000). The map also shows various geological features, including faults, and is labeled with numerous place names and landmarks. The map is oriented with North at the top.



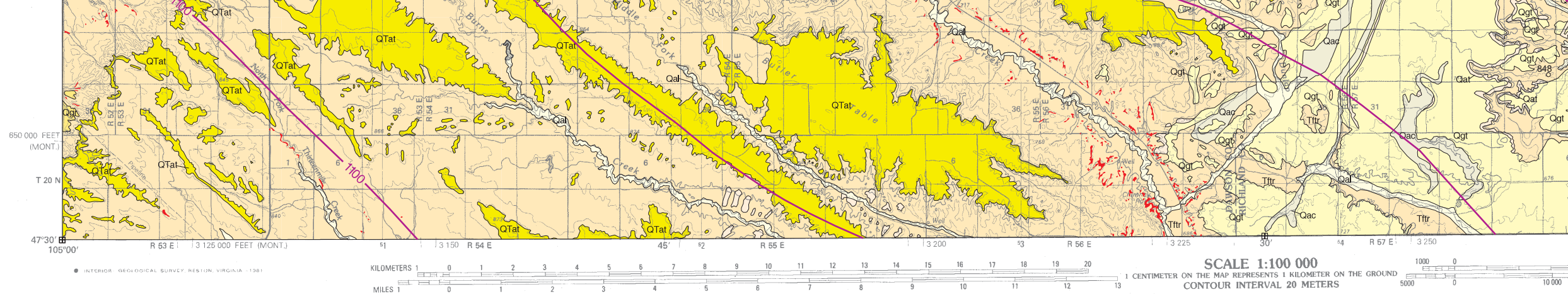
MAP UNITS

Qal	Alluvium of modern channels and flood plains
Qac	Alluvium-colluvium
Qgr	Gravel
Qat	Alluvium of alluvial terrace deposit
Qgt	Glacial till
Qgl	Glacial lake deposit
Qgk	Glacial kame deposit
Qge	Glacial esker deposit
QTat	Alluvium of alluvial terrace deposit
QTcl	Clinker
Tfbs	Sentinel Butte Member of Fort Union Formation





- | | |
|--|---|
| Tfbs | Sentinel Butte Member of Fort Union Formation |
| Tftr | Tongue River Member of Fort Union Formation |
| Ttle | Lebo Member of Fort Union Formation |
| Tlt | Tullock Member of Fort Union Formation |
| Khc | Hell Creek Formation |
|  Silcrete bed | |



Map Symbols



Contact. Dotted where concealed.



Well location and elevation of top of Pierre (Bearpaw) Shale; elevation in feet above mean sea level
Note: Well log elevation data in feet. To convert to meters divide by 3.28.



Structure contour on top of Pierre (Bearpaw) Shale; contour interval 100 feet (30.5 meters).
Datum: mean sea level

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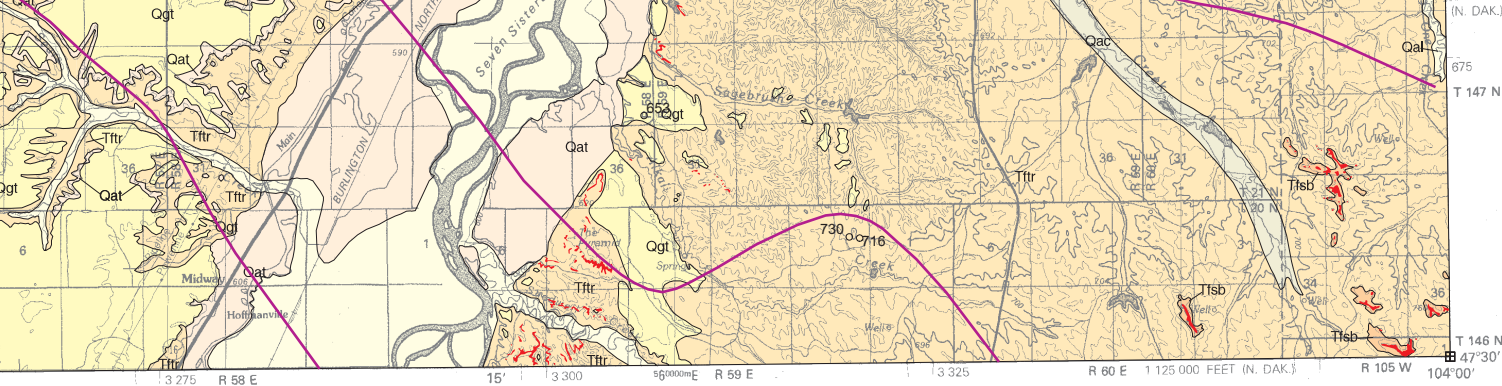
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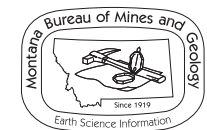
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Geologic Mapping Program of the U.S. Geological Survey

GIS production: Ken Sandau and Paul Thale, MBMG. M



SIDNEY, MONTANA-NORTH DAKOTA
N4730-W10400/30x60

1981



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Map layout: Susan Smith, MBMG.

Maps may be obtained from
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