

Montana Bureau of Mines and Geology
Open File No. 440

Geologic and Structure Contour Map
of the Opheim 30' x 60' Quadrangle,
Northeast Montana

Robert N. Bergantino

2001

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

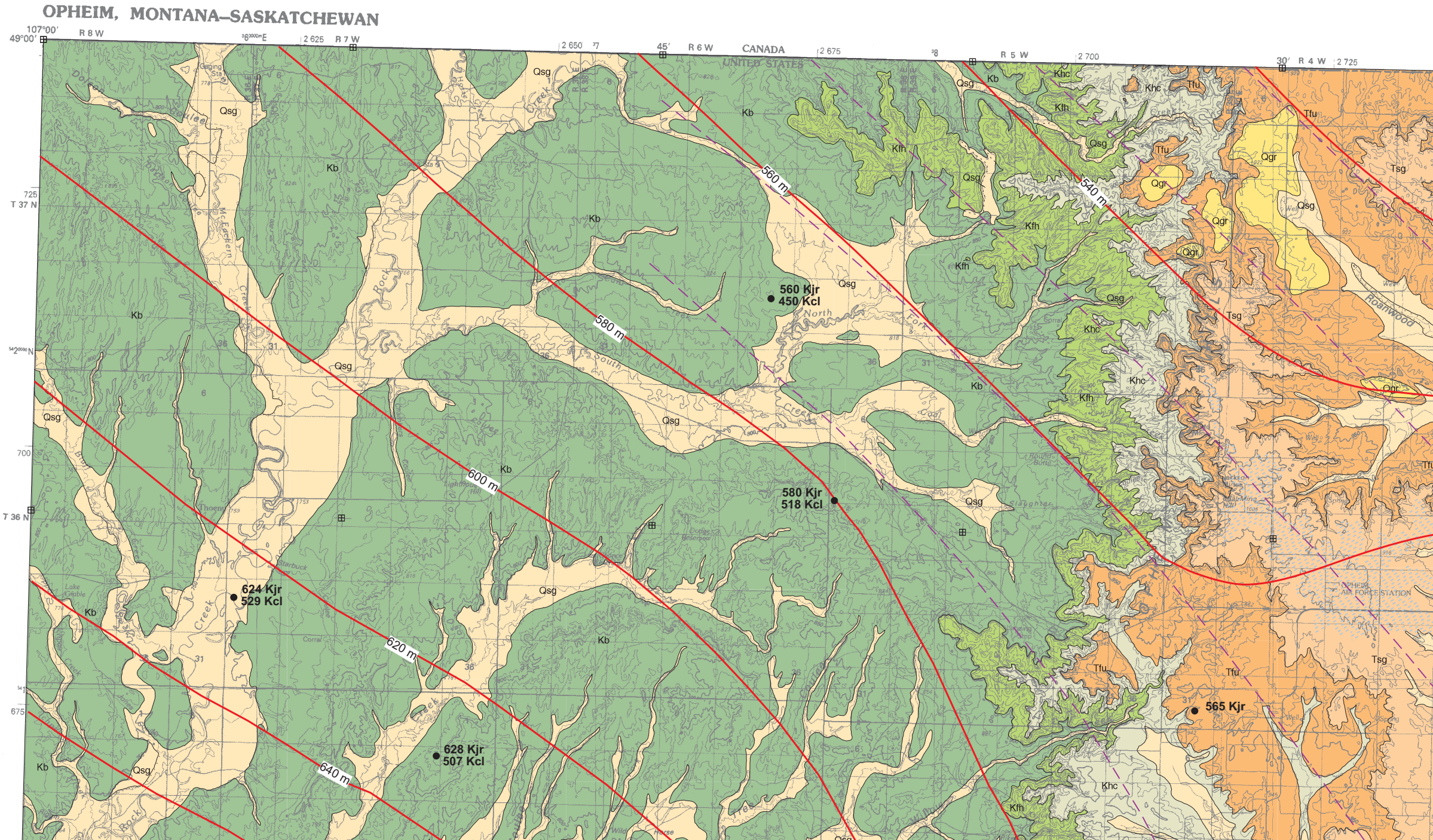
For the text files with the map information, [click here](#).

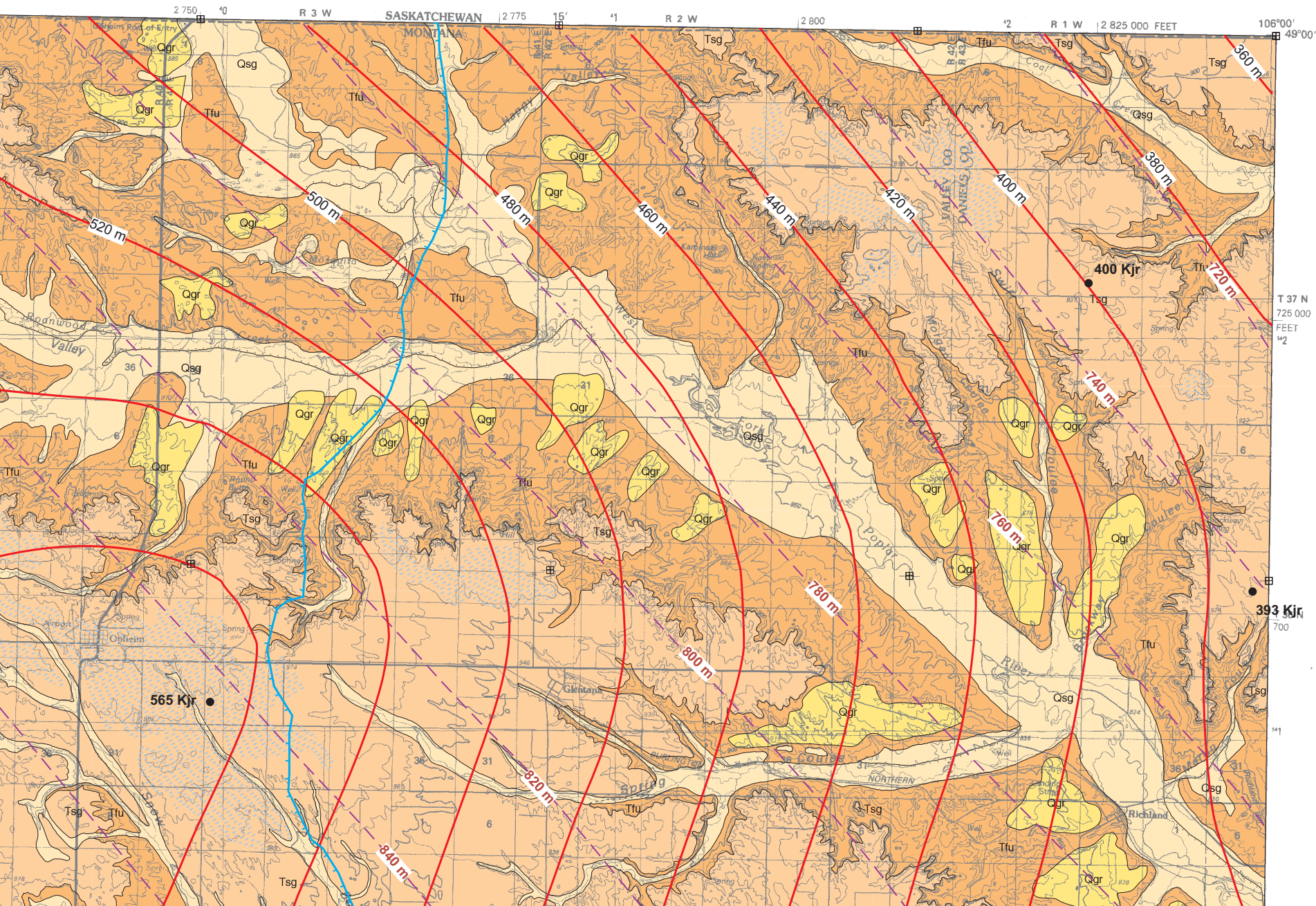
[Digital data link](#)

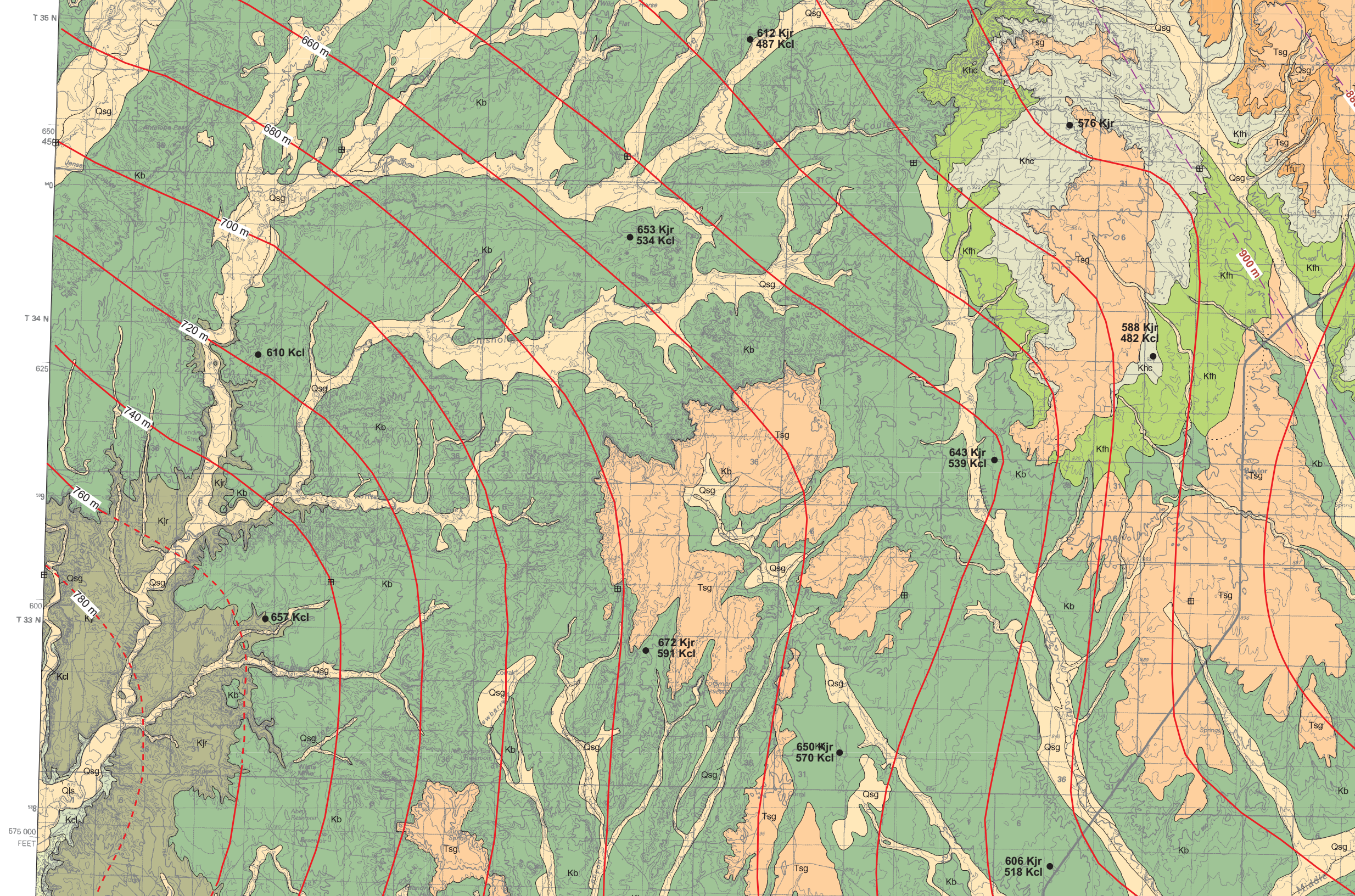
Note— This map was originally published at a scale of 1;100,000 but the page sizes have been modified to fit the average printer capabilities (8½ x 14; legal size paper). There is a an eighth inch overlap on these pages. A full sized colored print of this map can be ordered from the **MBMG Publication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

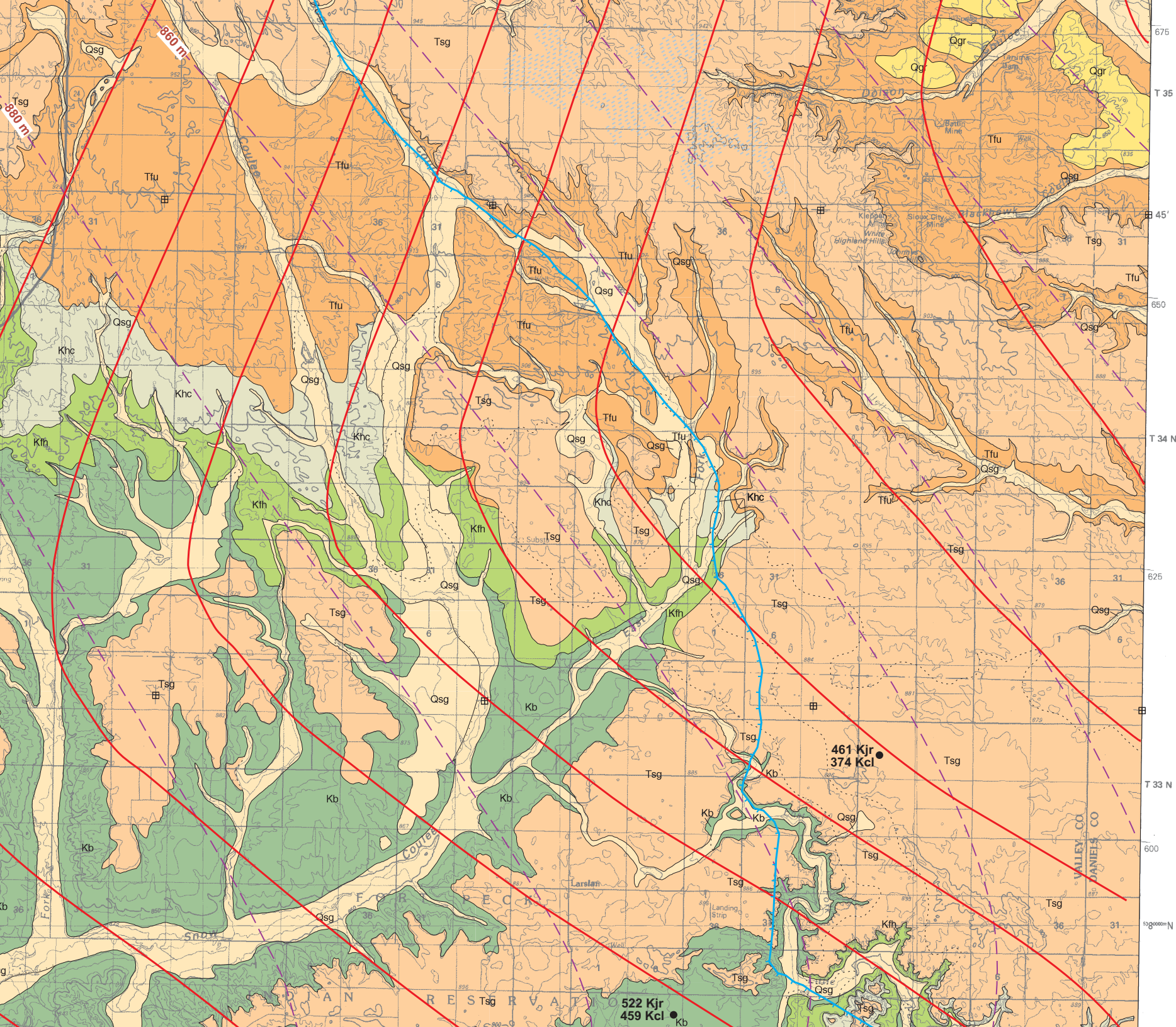
Phone: 406-496-4167

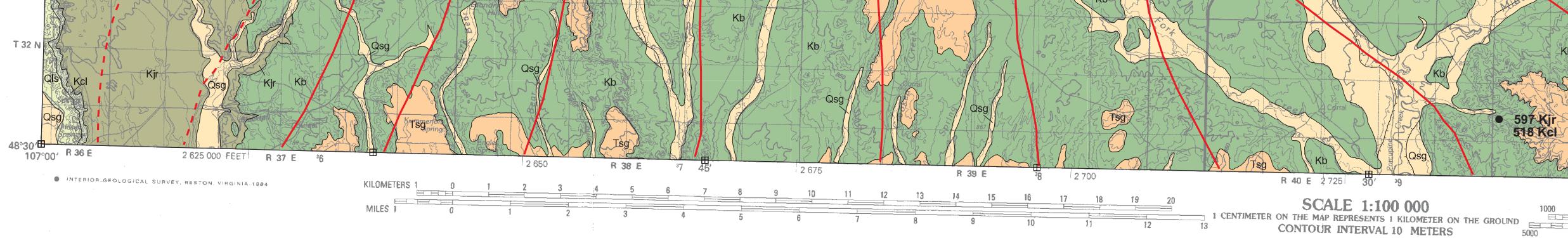
Email: pubsales@mbmg.mtech.edu





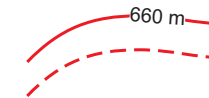






Contours in meters on top of the Judith River Formation and the Bearpaw Shale

Contour interval: 20 meters
Datum: mean sea level



Judith River Formation—Kjr (meters)
projected where top of formation eroded



Bearpaw Shale—Kb (meters); contours derived from outcrop
and well control points beyond the limits of this quadrangle



Well control point
699 Kjr = top of Judith River Formation (meters)
568 Kcl = top of Claggett Shale (meters)



Extent of glaciation (hachures on glaciated side)

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Geologic and Structure Contour Map of the Opheim 30' x 60' Quadrangle Northeast Montana

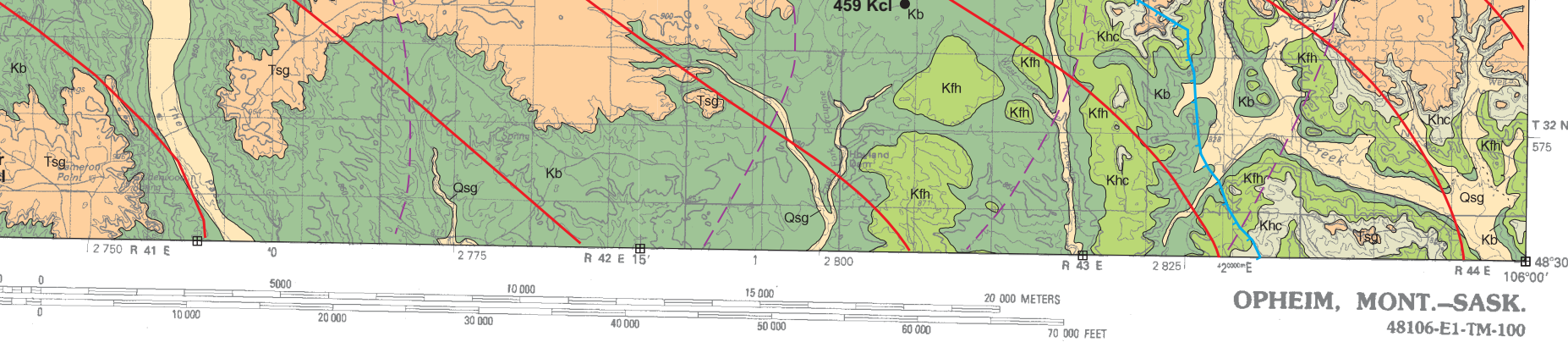
Robert N. Bergantino

2001 (Revised 2007)

Revisions	Date
map & text - S M Vuke	8/07

Partial support has been provided by the STATEMAP component of the National Mapping Program of the U.S. Geological Survey under Contract Number 01-H-

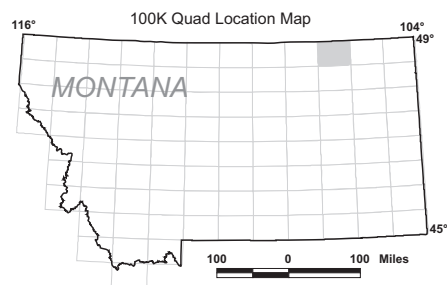
GIS production: Ken Sandau and Paul Thale, MBMG. Map layout: Susan Smith



Bearpaw Shale

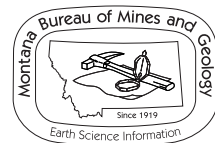
MAP UNITS

-  Sand and gravel
-  Landslide deposit
-  Gravel
-  Sand and gravel
-  Fort Union Formation, undivided
-  Hell Creek Formation
-  Fox Hills Formation
-  Bearpaw Shale
-  Judith River Formation
-  Claggett Shale
-  Paleosol



Quad index

CANADA		
WHITE-WATER	OPHEIM	SCOBEY
MALTA	GLASGOW	WOLF POINT



Maps may be obtained from
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