

Montana Bureau of Mines and Geology
Open File No. 515

Geologic Map of the Sand Springs
30' x 60' Quadrangle, Eastern Montana

Edith M. Wilde and Susan M. Vuke

2004

To view a full scale version (not printable) of this map, [click here](#).

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

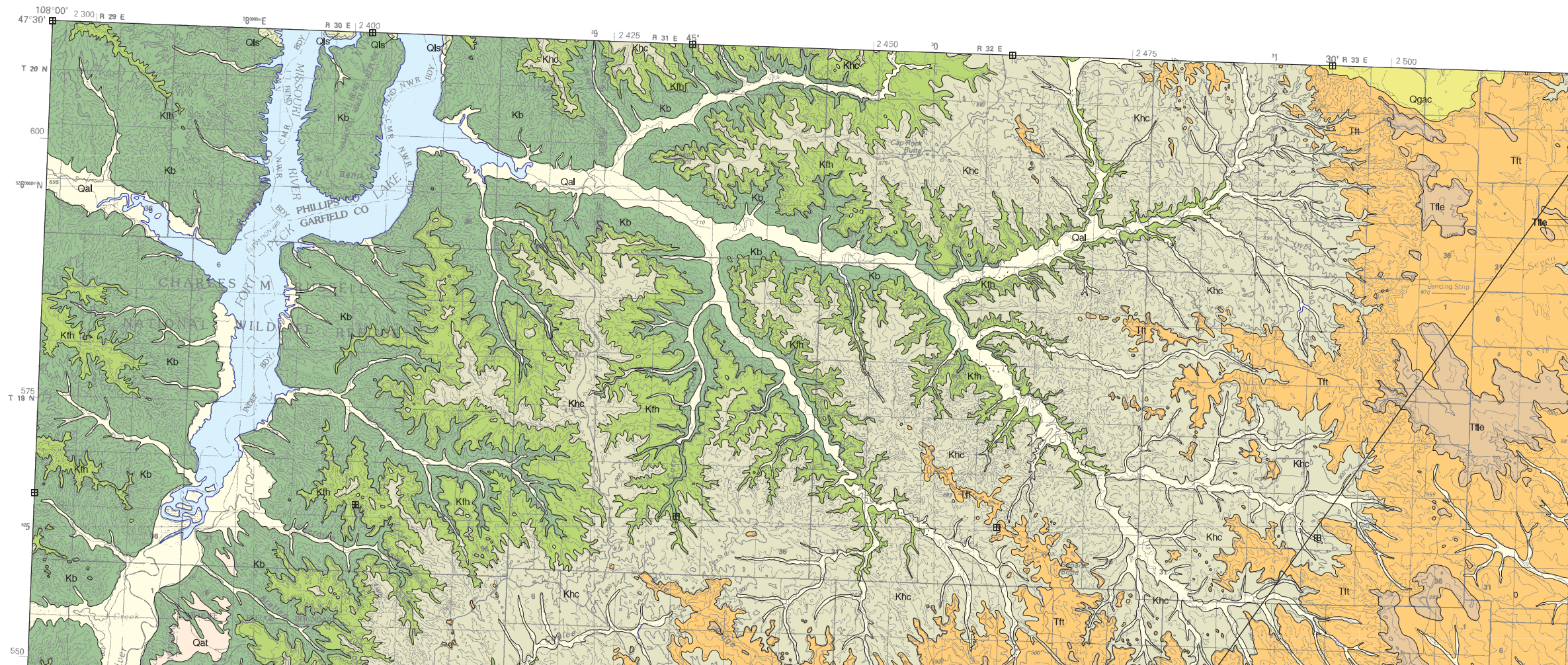
[Digital data link](#)

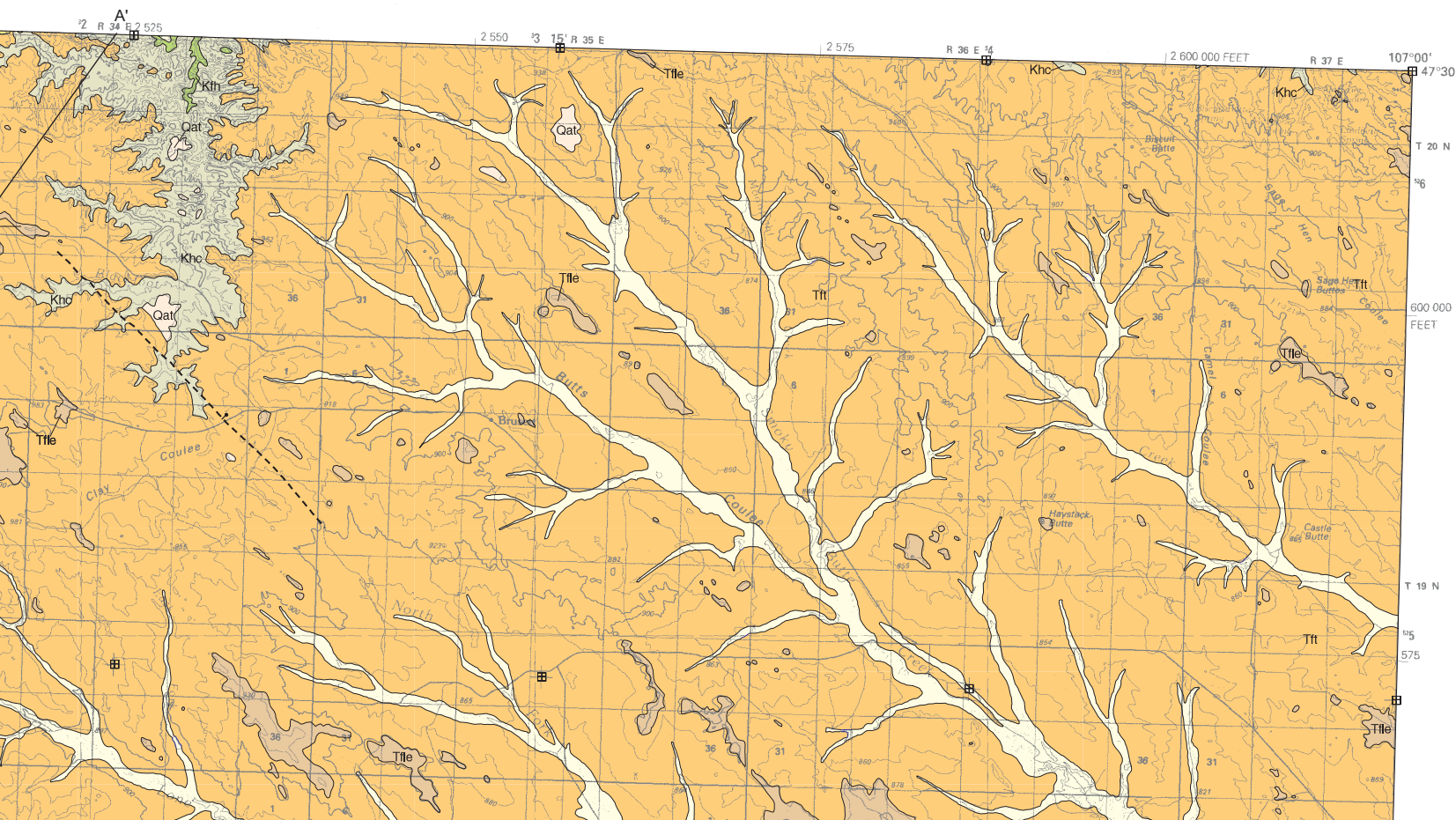
Note— This map was originally published at a scale of 1:100,000 but the page sizes have been modified to fit the average printer capabilities (8½ x 14; legal size paper). There is a an eighth inch overlap on these pages. A full sized colored print of this map can be ordered from the **MBMG Publication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

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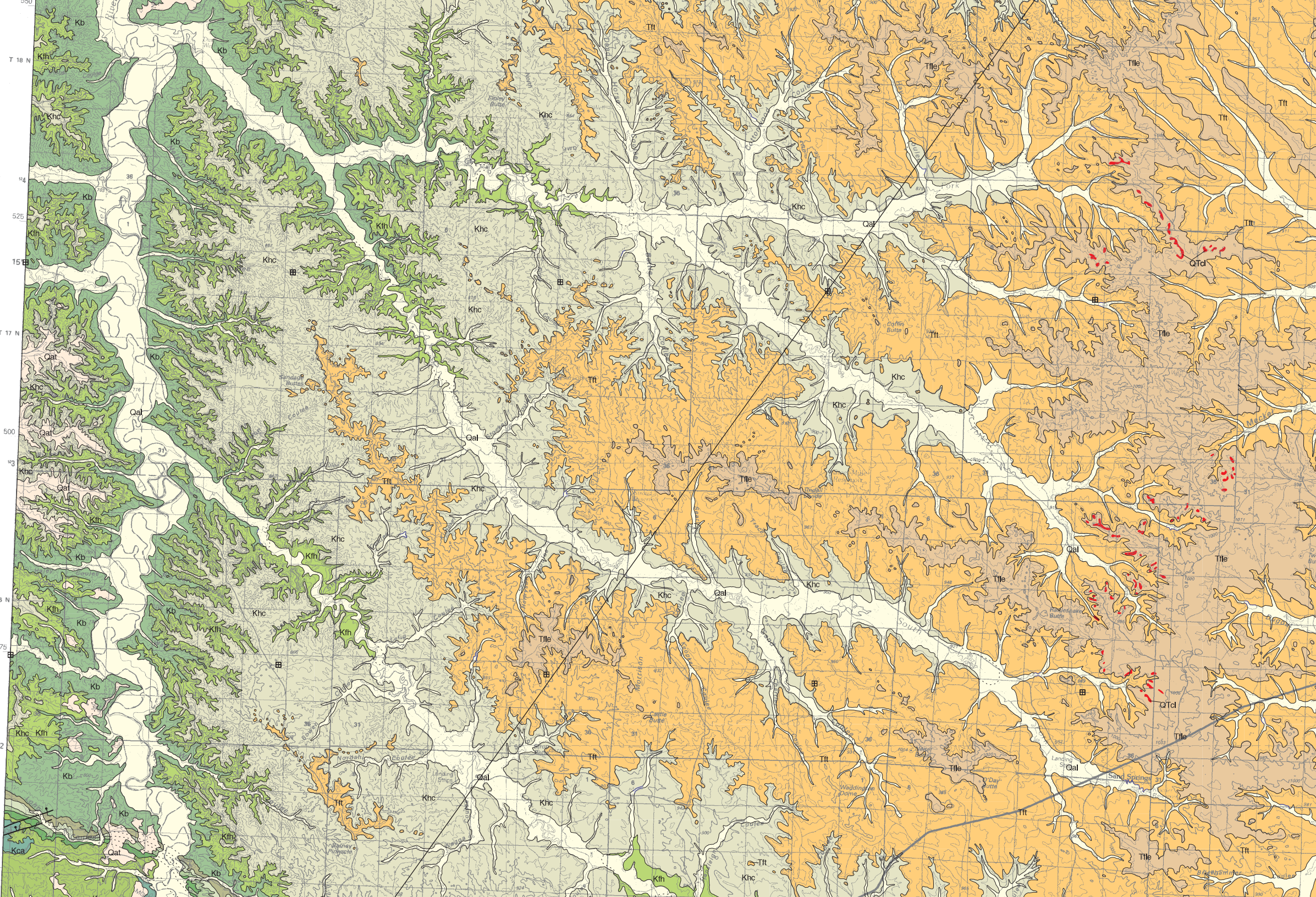
Open File MBMG 515, Plate 1 of 1
Geologic Map, Sand Springs 30'x60' Quadrangle, 2004 (Revised 2007)





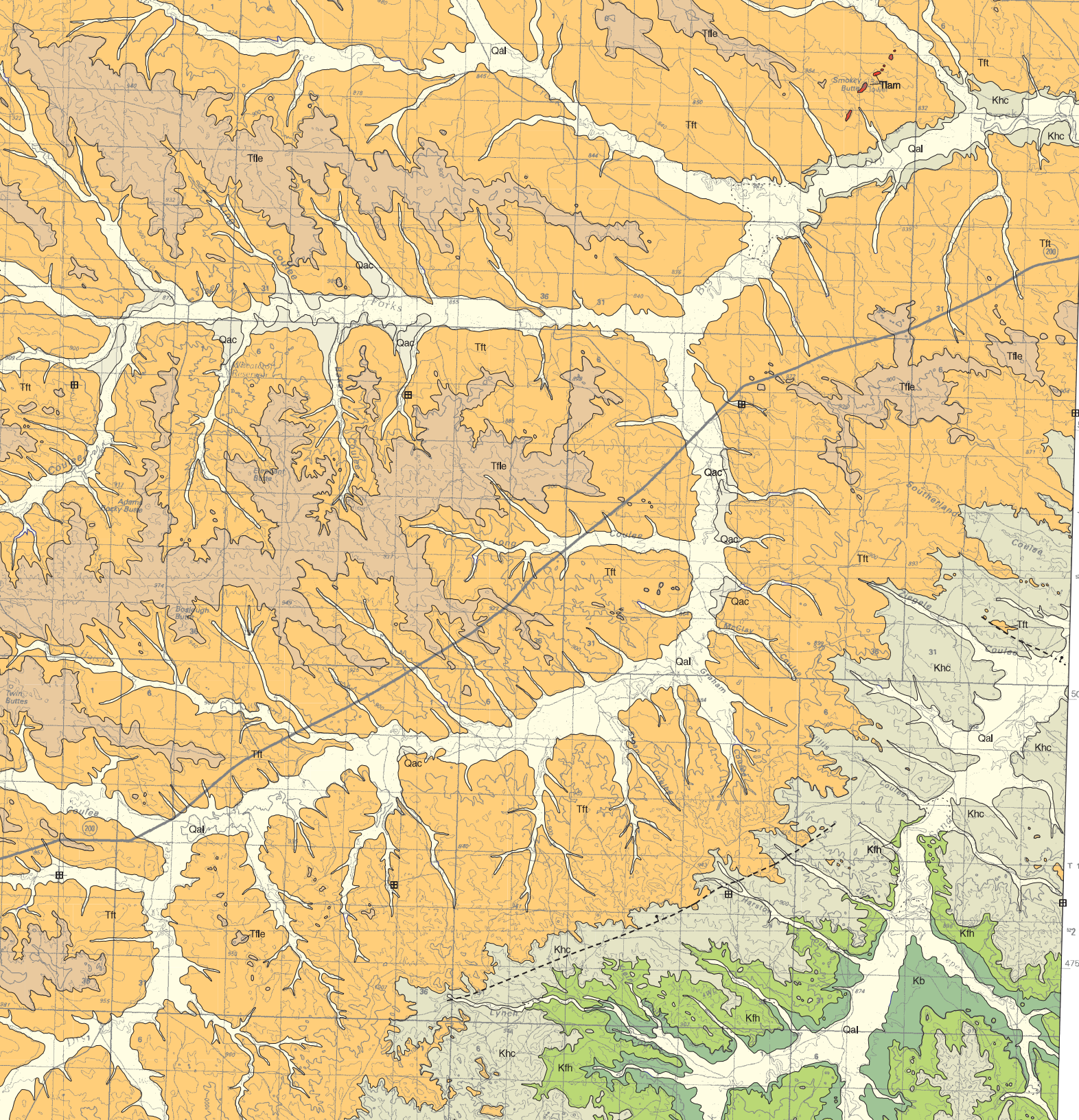
MAP UNITS

Qal	Alluvium of modern channels and flood plains
Qat	Alluvium of alluvial terrace deposit
Qac	Alluvium and colluvium, undivided
Qls	Landslide
Qgac	Gravelly sheetwash alluvium and colluvium
QTcl	Clinker
Tlam	Lamproite
Ttle	Lebo Member of Fort Union Formation
Tft	Tulloch Member of Fort Union Formation
Khc	Hell Creek Formation
Kfh	Fox Hills Formation
Kb	Bearpaw Shale

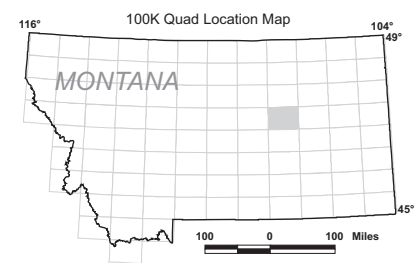


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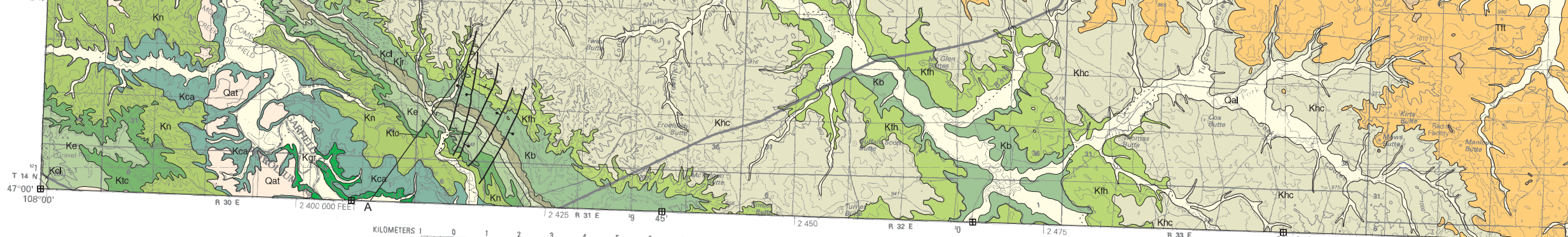


- Kd Bearpaw Shale
- Kjr Judith River Formation
- Kcl Claggett Shale
- Ke Eagle Formation
- Ktc Telegraph Creek Formation
- Kn Niobrara Formation
- Kca Carille Formation
- Kgr Greenhorn Formation
- W Water

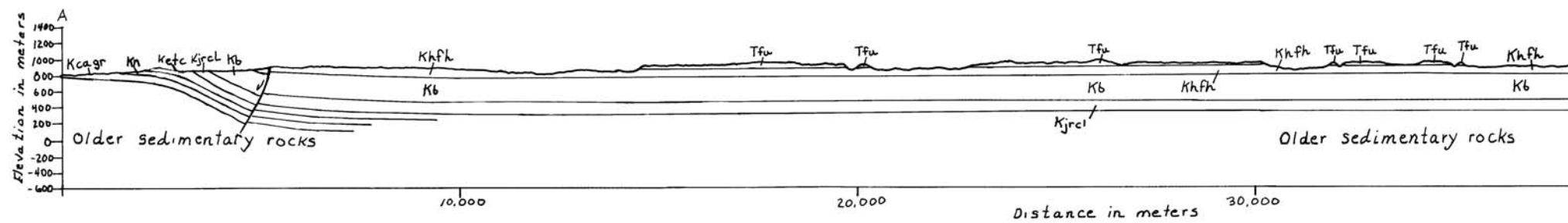


Quad index

ZORTMAN	FORT PECK LAKE WEST	FORT PECK LAKE EAST
WINNETT	SAND SPRINGS	JORDAN
MUSSEL-SHELL	MELSTONE	ANGELA



Base from U.S. Geological Survey
 Sand Springs 30' x 60' topographic quadrangle
 Map date: 1993
 Projection: UTM zone 13; 1927 NAD



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Geologic Map of the Sand Springs 30' x 60' Quadrangle Eastern Montana

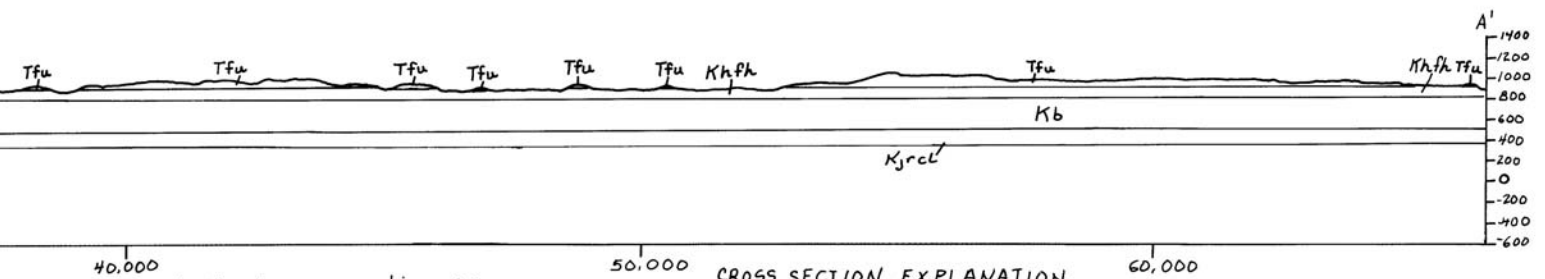
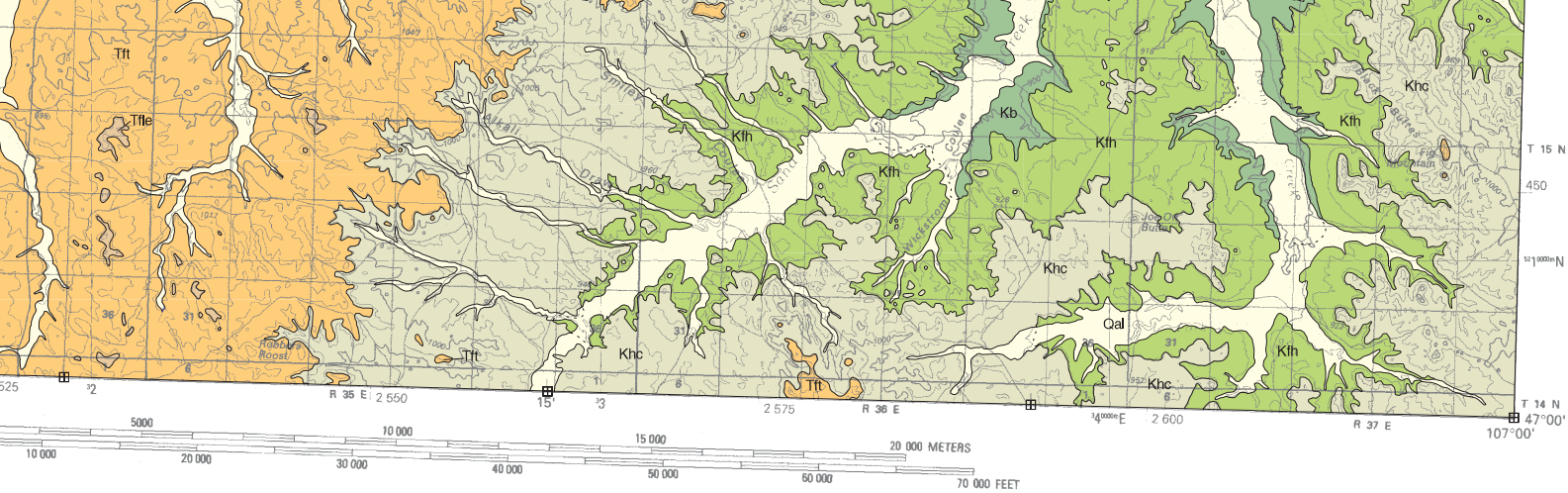
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2004 (Revised 2007)

Revision	Date
map - S M Vuke	8/07

Partial support has been provided by
 Mapping Program of the U.S. Geology

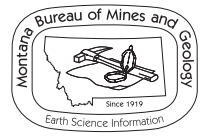
GIS production: Ken Sandau and Pau



Vertical exaggeration: 2x
 Datum: mean sea level
 Surficial deposits not shown.

CROSS SECTION EXPLANATION

Tf	Fort Union Fm. undivided
Kfh	Hell Creek & Fox Hills Fms, undivided
Kb	Bearpaw Shale
Kjrcl	Judith River & Claggett Fms, undivided
Ketc	Eagle & Telegraph Creek Fms, undivided
Kn	Niobrara Shale
Kcagr	Carlisle & Greenhorn Fms, undivided



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