

Montana Bureau of Mines and Geology
Open File No. 405

Geologic Map of the
Big Timber 30' x 60' Quadrangle,
South-Central Montana

David Lopez

2000

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

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

[Digital data link](#)

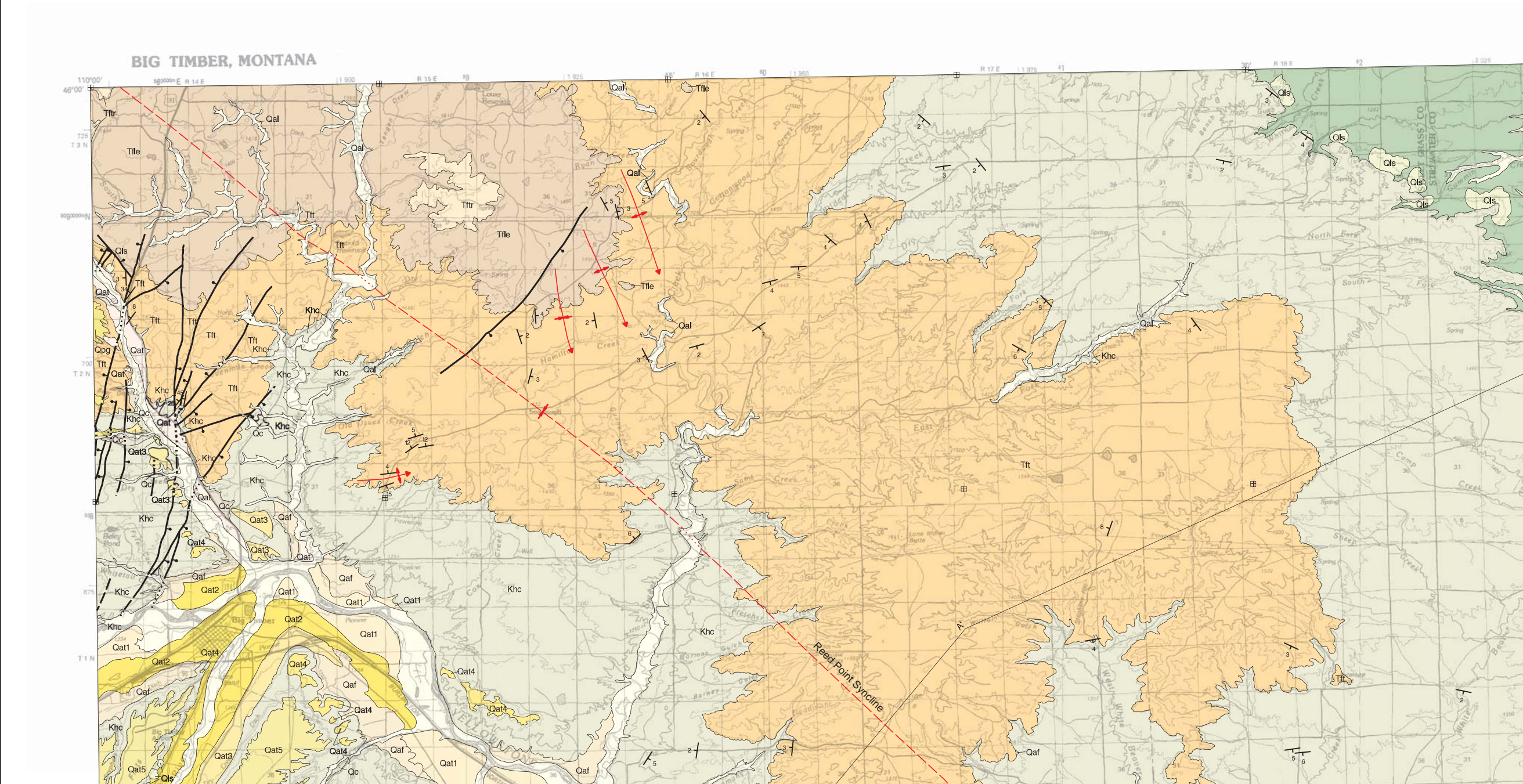
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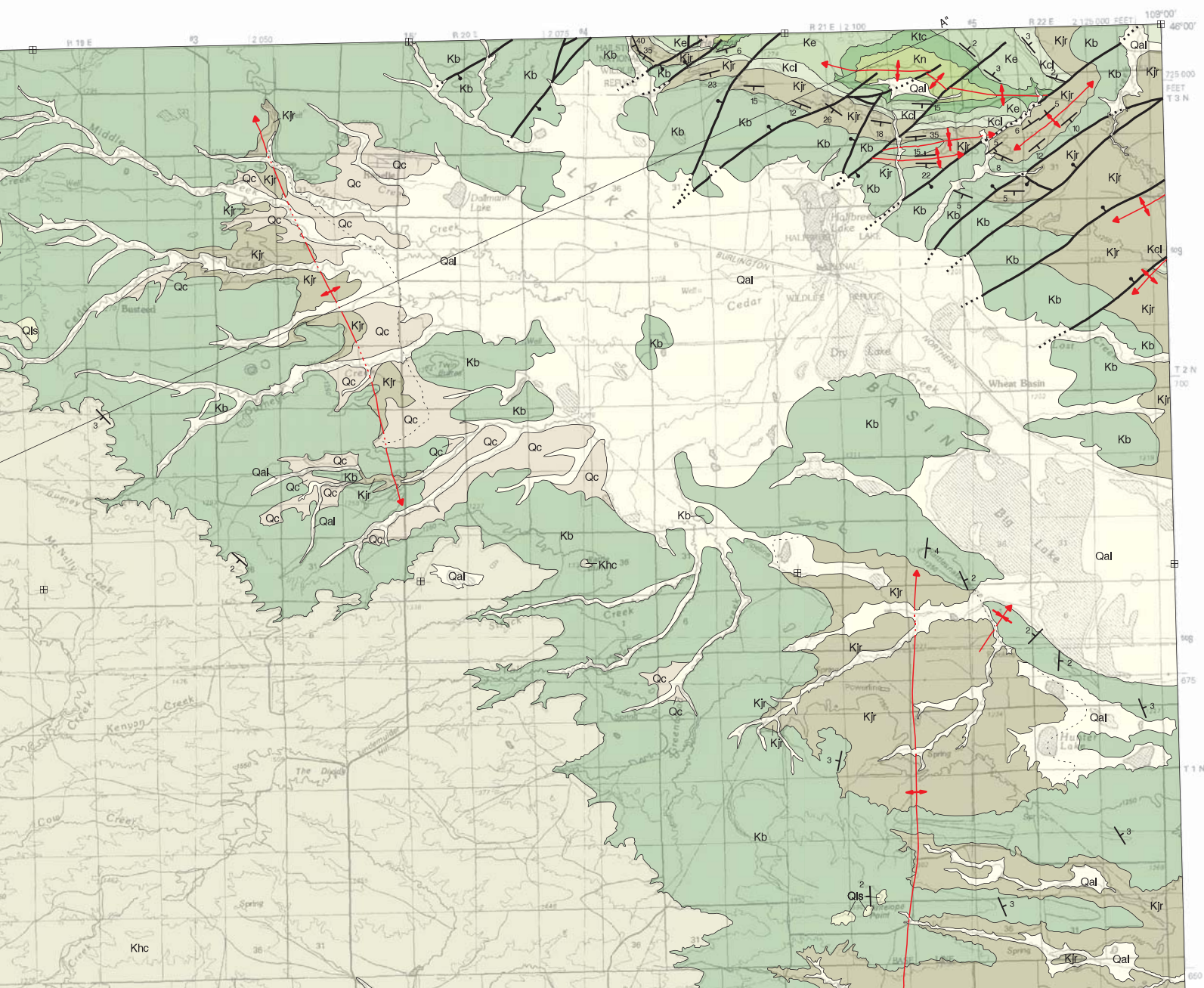
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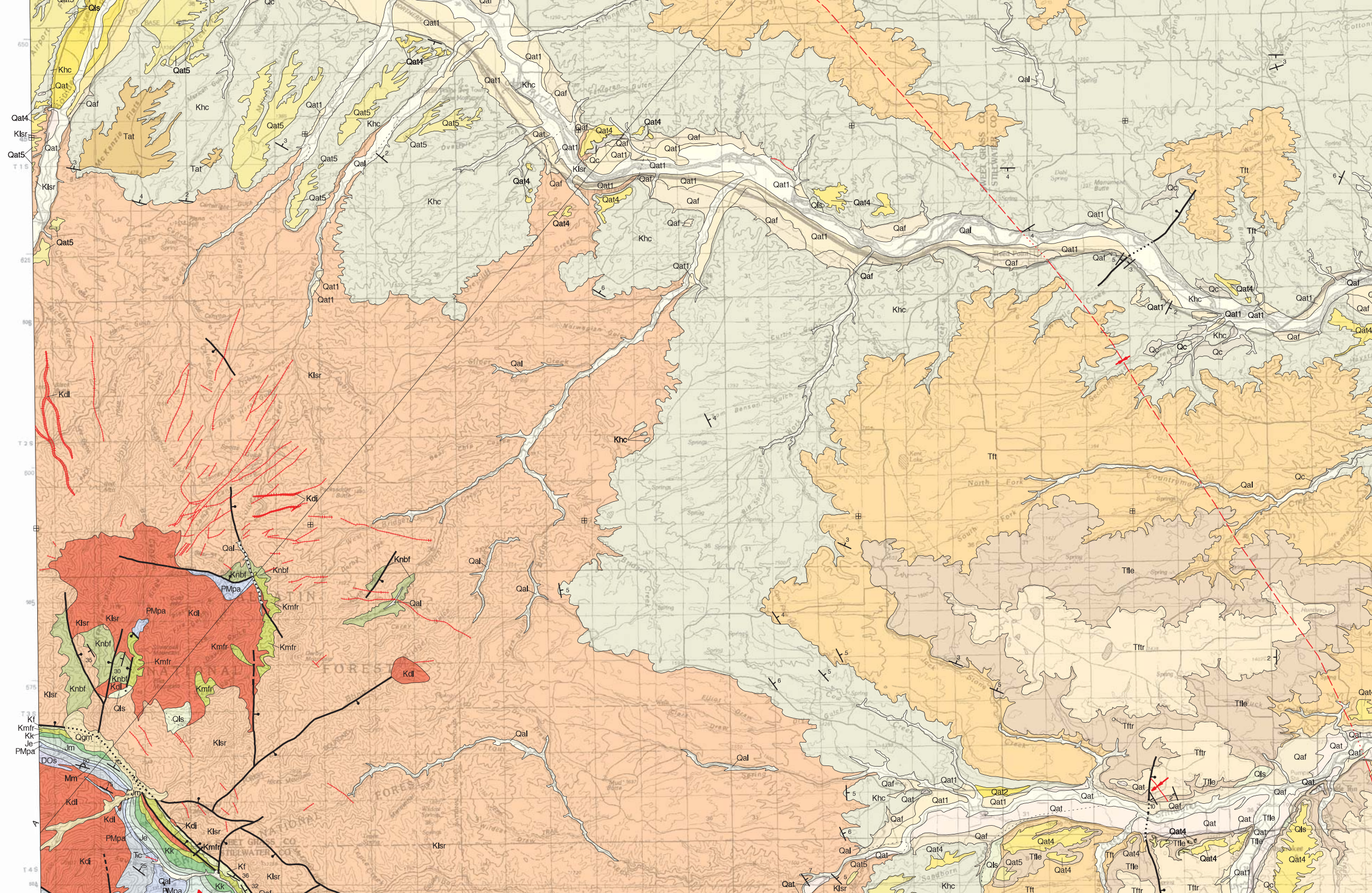
Open File MBMG 405, Plate 1 of 1
Geologic Map, Big Timber 30'x60' Quadrangle

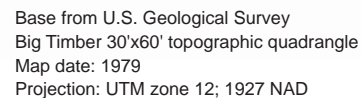




MAP UNITS

Qal	Alluvium of modern channels and flood plains
Qc	Colluvium
Qaf	Alluvial fan deposit
Qls	Landslide deposit
Qpg	Pediment gravel deposits
Qgm	Glacial moraine
Qat	Alluvium of alluvial terrace deposit
Qat1	Alluvium of youngest alluvial terrace level
Qat2	Alluvium of second youngest alluvial terrace level
Qat3	Alluvium of third youngest alluvial terrace level
Qat4	Alluvium of fourth youngest alluvial terrace level
Qat5	Alluvium of fifth youngest alluvial terrace level, oldest
Tat	Alluvium of alluvial terrace deposit
Titr	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
Kdi	Diorite
Klsr	Sliderock Mountain Formation, informal, of Livingston Group
Kb	Bearpaw Shale
Kjr	Judith River Formation
Kcl	Claggett Shale
Ke	Eagle Formation
Ktc	Telegraph Creek Formation
Kn	Niobrara Formation
Knbf	Niobrara Formation through Belle Fourche Formation, undivided
Kf	Frontier Formation
Kmfr	Mowry Formation through Fall River Formation, undivided





Vertical exaggeration 1.0 x's

Yellowstone River

Reed Point Syncline

A

A'

Elevation (meters)

Distance (meters)

Geological units labeled include: PMpa, KJkme, Kmfr, Klsr, Kmg, Kdi, Mm, Knbf, DOs, Cs, Asw, Klar, Klb, Knc, Tft, Kjr, Kte, Kfr, Km, Cs, Agn, and ?.

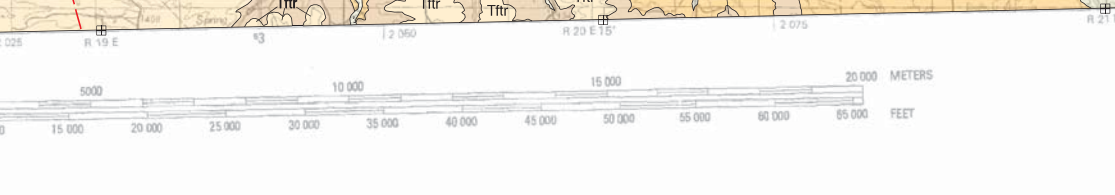
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Revised	Date
Map	9/01
Map and text	12/02



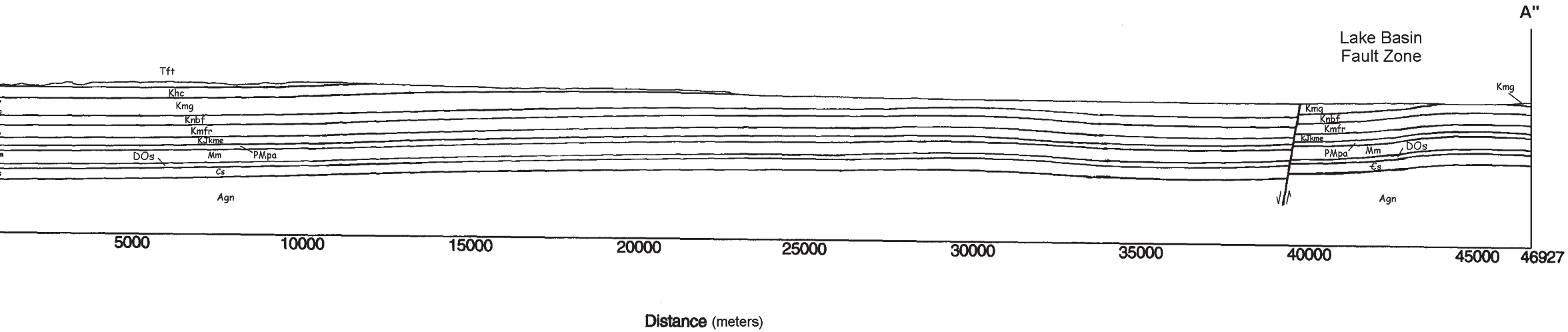
BIG TIMBER, MONTANA
N4530-W10900/30x60
1979

LIVINGSTON	BIG TIMBER	BILLINGS
GARDINER	RED LODGE	BRIDGER

Control
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c 1, T1N, R17E

Profile from A' - A''

Vertical exaggeration 1.0 x's



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