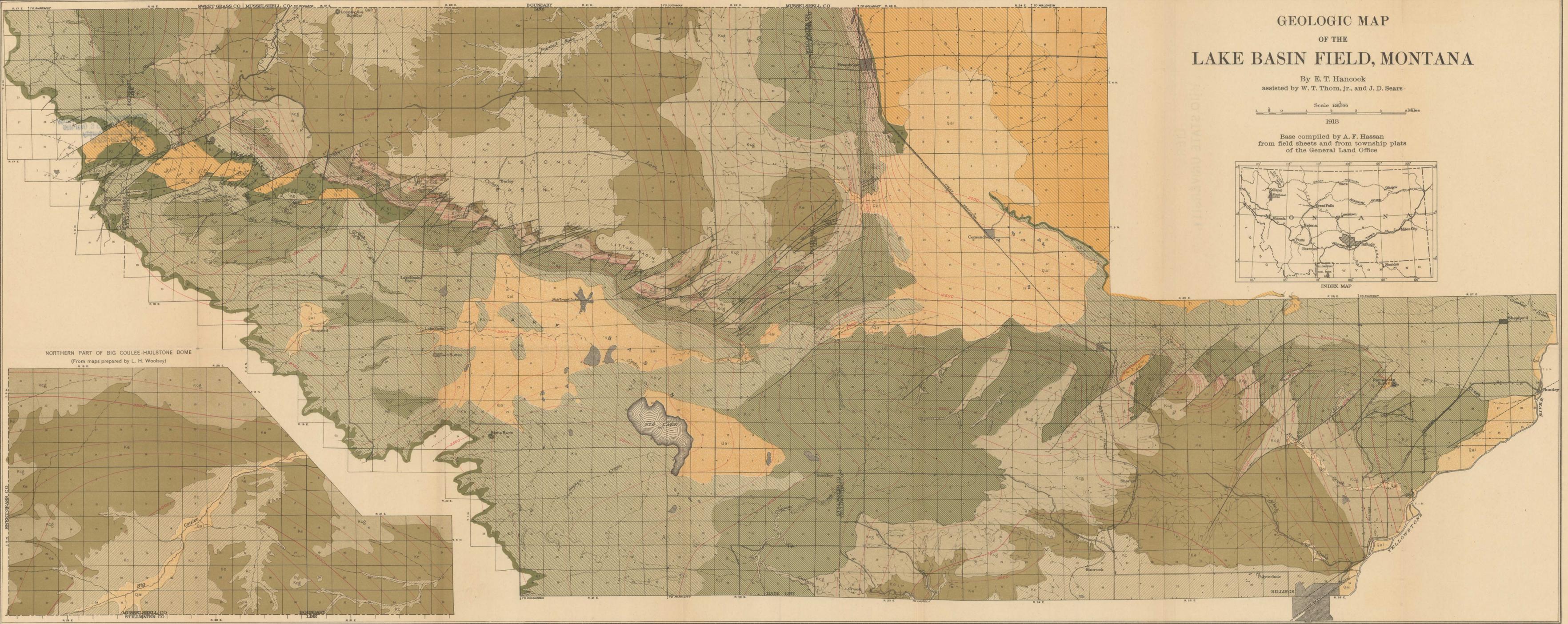
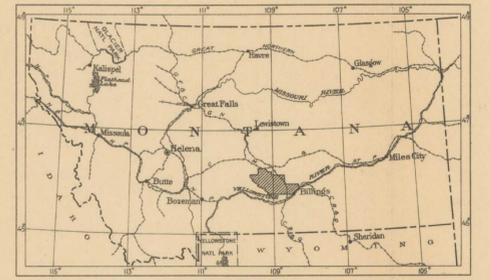


GEOLOGIC MAP OF THE LAKE BASIN FIELD, MONTANA

By E. T. Hancock
assisted by W. T. Thom, jr., and J. D. Sears

Scale 125,000
1918

Base compiled by A. F. Hassan
from field sheets and from township plats
of the General Land Office



NORTHERN PART OF BIG COULEE-HAILSTONE DOME
(From maps prepared by L. H. Woolsey)

EXPLANATION

SEDIMENTARY ROCKS

- Qal Alluvium
- Tlb Lebo shale member, base of Fort Union formation
- Tl Lance formation
(Interbedded light-yellow to light-gray sandstones and black to gray shales, with occasional thin bands of carbonaceous shale)
- Kl Lennep sandstone
(Light-colored sandstones separated by a brown arenaceous member)
- Kb Bearpaw shale
(Gray and black marine shale with lenses of sandstone)
- Kjr Judith River formation
(Soft massive light-yellow sandstone interbedded with layers of bluish-gray to black carbonaceous shale. Includes at base, for convenience of mapping and because of lithologic similarity, a sandstone which seems to be approximately equivalent to the sandstone included in the upper part of the Claggett formation in its type area and in the eastern part of the Big Horn Basin)
- Kcg Claggett formation
(Alternating beds of thin-bedded sandstone and soft sandy shale)
- Ke Eagle sandstone
(Massive and thin-bedded sandstones, with a middle member composed of soft sandstone and sandy and carbonaceous shale)
- Kc Colorado shale
(Chiefly light to dark gray shales, including thin layers and intercalated beds of sandstone)

Structure contours
on base of Eagle sandstone
(Based upon elevations of the outcrops of the sandstone and of other beds whose stratigraphic relation to the sandstone are known. Inferred contours are indicated by broken lines) Contour interval 100 feet

- Anticline
- Syncline
- Faults
(Inferred faults are indicated by broken line) D, downthrow. U, upthrow
- Strike and dip
- Outcrop of sandstone ledge
- Outcrop of oyster bed
- Mine
- Prospect
- Showing of gas

Geologic Time Scale

- Recent
- Eocene
- Eocene (?)
- Upper Cretaceous
- Montana group
- TERTIARY QUATERNARY
- CRETACEOUS