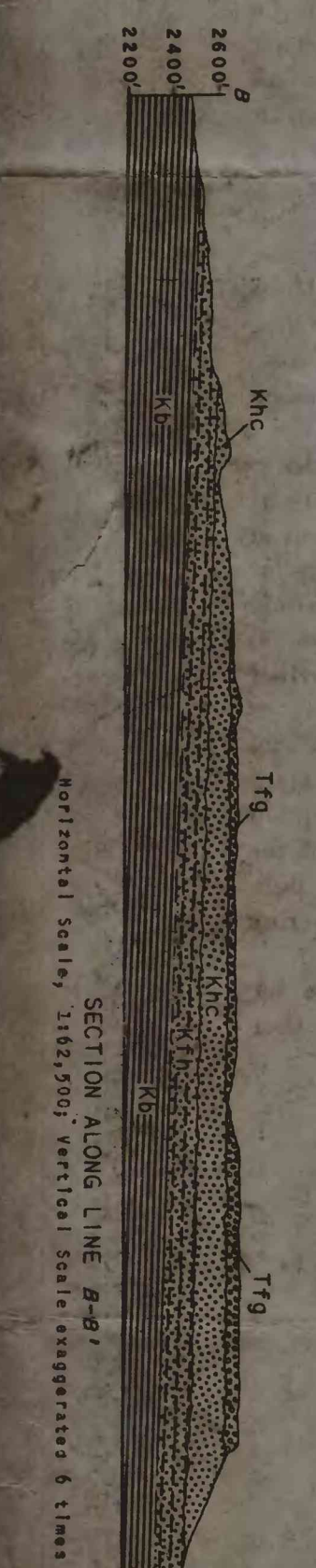


- EXPLANATION
For crosssections
- Qal Alluvium
 - Tfg Flaxville gravel
 - Khc Hell Creek formation
 - Kfh Fox Hills sandstone
 - Kb Bearpaw shale



EXPLANATION

Qal

Alluvium

Fine to locally coarse-grained flood plain deposits of Missouri River and major tributaries. Mainly silt with local gravel lenses. Deposits average about 30 feet thick but may be over 130 feet thick under Missouri River floodplain.

Tfg

Flaxville gravel

Rounded brown sand and gravel 90 percent of which is brown and red quartzite and argillite. Caps highlands; 30 to 50 feet thick. Well-bedded and sorted consisting of approximately 5 percent silt, 35 percent sand, 60 percent pebbles and a few cobbles.

Khc

Hell Creek formation

Generally well-stratified sequence of shales, siltstones, sandstones, and carbonaceous shales about 200 feet thick in quadrangle. Overall appearance is one of somber greenish gray colors. Weathered surfaces of many bentonitic shale beds have spongy texture. Lower 50 to 100 feet predominantly medium tan sand or where cemented, sandstone. Contains vertebrate remains, usually ceratopsian. A few quartzite pebbles found in basal 50 feet.

Kfh

Fox Hills sandstone

Consists of upper sandstone unit 50 to 80 feet thick underlain by transitional marine unit 35 feet thick. Lower unit consists of thin-bedded well-laminated shale grading to silt toward top. Upper predominating sandstone contains numerous concretions.

Kb

Bearpaw Shale

Dark olive-gray much jointed marine shale approximately 1,100 feet thick. Only upper 400 feet exposed. Contains abundant fossiliferous calcareous and limonitic concretions. Upper hundred feet contains a few brownish sandy clay-shale beds. Thin bentonitic seams are present and bentonite is disseminated through some shale of certain zones.

- Contact
- Contact, approximate or gradational
- Contact, inferred
- Paved road
- Graded road
- Secondary road

Trail or unimproved road

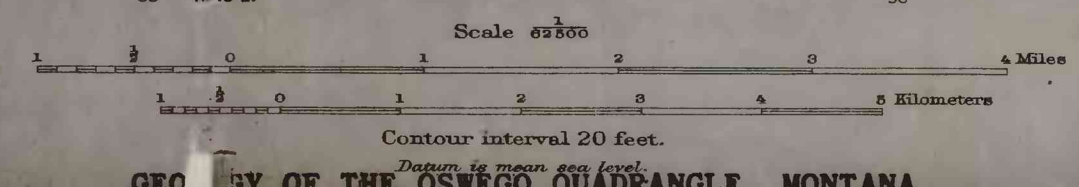
QUATERNARY

TERTIARY

CRETACEOUS

ENGRAVED JULY 1916 BY U.S.G.S.
R.B. Marshall, Chief Geographer,
Sledge Tatum, Geographer in charge,
Topography by the General Land Office
and C.P. McKinley.
Control by the Missouri River Commission and
the General Land Office.
Surveyed in 1908-1910 and 1913.

G.L.O.



GEOLOGY OF THE OSWEGO QUADRANGLE, MONTANA

Edition of Nov. 1916.
GEOLOGY MAPPED IN 1950 BY
ROGER B. COLTON ASSISTED BY
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OSWEGO, MONT.