

EXPLANATION

Pliocene (?) and Recent	Gal	Alluvium and lake deposits (Gravel, sand, and clay. Generally water bearing and where very fine grained, yields large supplies. Water may be of poor quality.)
	Ti	Terrace deposits of Pleistocene to Oligocene? age are shown on separate maps, Figure 2.
Eocene	Fl	Fort Union formation (Upper part consists of beds of sandstone, shale, and coal. The sandstone yields moderate supplies of potable water. The lower part, comprising the Lobo shale member, Ti, consists of sub-colored shales with some thin sandstones and is usually a less productive water horizon than the upper part of the Fort Union and the underlying Lance formation.)
	Lf	Lance formation (Sandstone in this formation usually yields small to moderate supplies of potable water.)
	Ls	Lennie sandstone (Andesitic sandstone and massive light-colored sandstone.)
Upper Cretaceous (Montana group)	Bs	Bearpaw shale (Essentially dark marine shale. Generally not water bearing or yielding very small supplies of poor water.)
	Jf	Judith River formation (Alternating sandstones and shales of fresh or brackish water origin. Generally yields supplies of potable water. At the base sandstone which belongs to the Claggett formation is for convenience mapped with Judith River.)
	Cf	Claggett formation (Dark gray shale with considerable sandstone in places. Generally not water bearing. Water, when obtained, is frequently so highly mineralized as to be potable.)
	Es	Eagle sandstone (Predominantly sandstone. Weles out in eastern part of the area. Yields small supplies of rather hard water.)
	Tc	Telegraph Creek formation (Thin-bedded sandstones and shales of marine origin.)
Lower Cretaceous (?) Cretaceous	Co	Colorado shale (Chiefly shale with some shaly sandstone. Generally not water bearing. Water when obtained is frequently very poor.)
	Cv	Clovis formation (Conglomerate, clay, and sandstone. Frequently yields considerable amounts of artesian water in wells drilled for oil but may contain natural gas.)
	Mf	Morrison formation (Chiefly variegated clays. Poor water horizon.)

Inferred faults are indicated by broken line, D, downthrow; U, upthrow.

Strike and dip

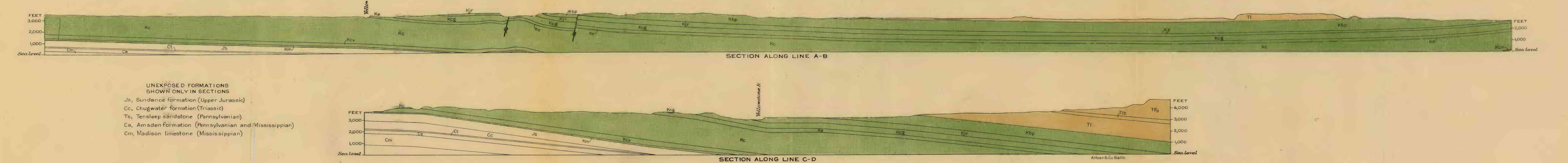
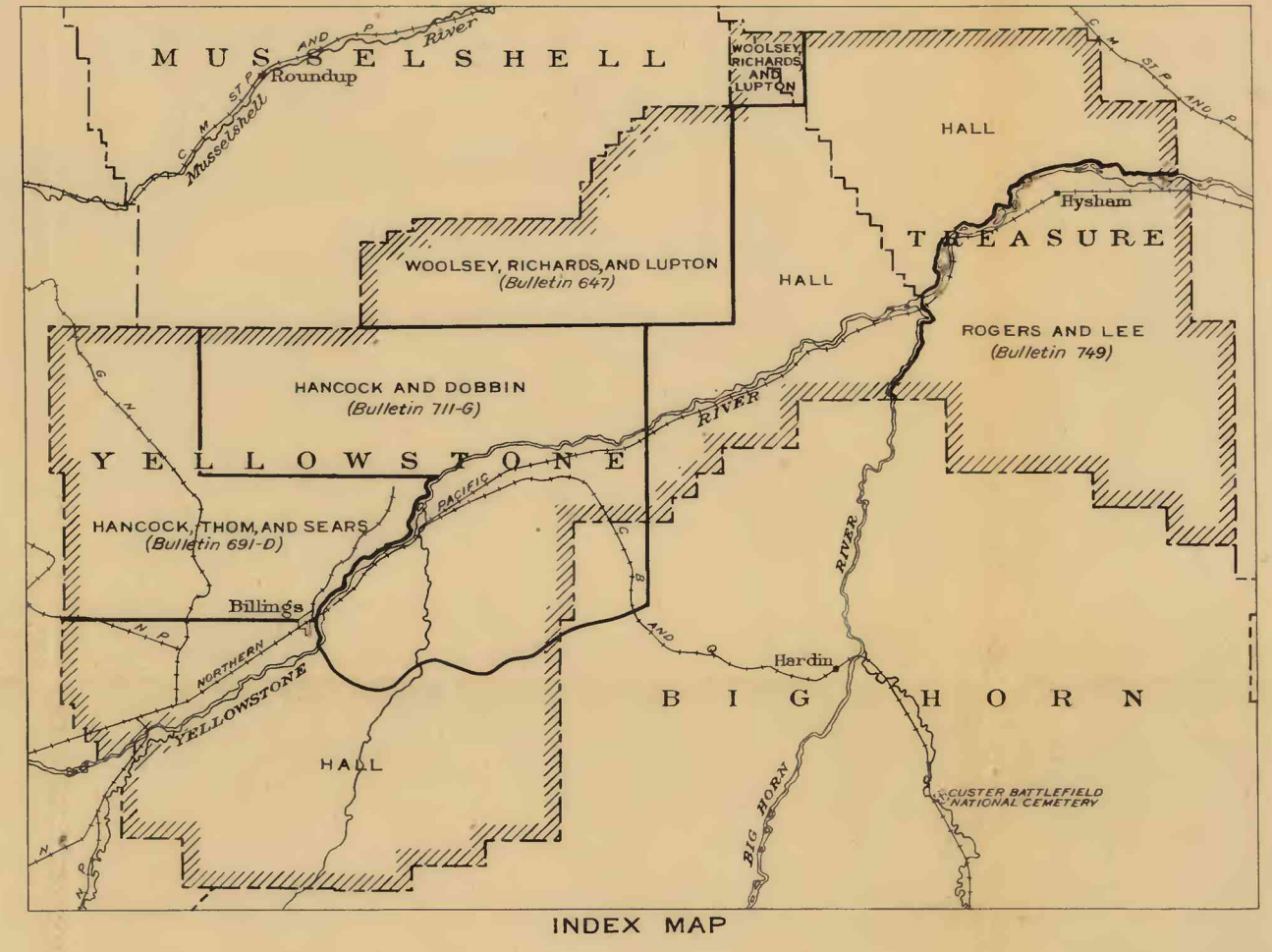
Flowing well

Drilled well

Dug well

Spring

Circle around symbol shows that analysis is given in report



UNEXPOSED FORMATIONS SHOWN ONLY IN SECTIONS

Js, Sundance formation (Upper Jurassic)

Cc, Chugwater formation (Cretaceous)

Ts, Tensleep sandstone (Pennsylvanian)

Ca, Amsden formation (Pennsylvanian and Mississippian)

Cm, Madison limestone (Mississippian)

GEOLOGIC MAP AND SECTIONS OF YELLOWSTONE AND TREASURE COUNTIES, MONTANA

By G. M. Hall

Scale 250,000

