

R.37 E.

R.38 E.

107°00'

EXPLANATION

QUATERNARY

- Qa ALLUVIUM, SLOPE WASH, AND LOW STREAM TERRACE DEPOSITS--Silt, sand, and gravel on the floors of the major stream valleys
- Ql LANDSLIDE MATERIAL--Slumped masses of sandstone, siltstone, and shale of the Fort Union Formation

TERTIARY AND CRETACEOUS

- Tfr TONGUE RIVER MEMBER OF THE FORT UNION FORMATION--Yellowish gray siltstone and sandstone, gray shale and silty shale, brown carbonaceous shale, and coal
- TK LERO SHALE MEMBER OF THE FORT UNION FORMATION AND OLDER ROCKS--Gray silty shale and thin beds of gray sandstone in the Lero Shale Member of the Fort Union Formation; underlain by yellowish gray evenly bedded sandstone, gray shale, and brown carbonaceous shale in the Tullock Member of the Fort Union Formation; and massively bedded light-gray sandstone and gray to greenish gray mudstone in the Bell Creek Formation

--- CONTACT--bashed where approximately located

- - - OUTCROP OF COAL BED--Approximately located. Drawn on the base of the bed. Number and x show locality where the coal bed was measured at the surface. Letters identify the coal bed as follows:

- A --Anderson
- Cy--Canyon
- Co--Cook
- W --Wall
- H --Hope
- C --Corral
- S --Swift
- R --Robinson
- L --Local

CLINKER--Rocks fused and baked by the heat of burning of coal underground. Dotted line outlines area of clinker

--- FAULT--bashed where approximately located; dotted where concealed. U, upthrown side; D, downthrown side

⊗ ABANDONED COAL MINE OR PROSPECT

NOMENCLATURE AND CORRELATION

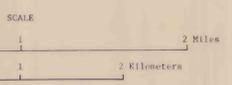
The Anderson, Canyon, and Wall coal beds are correlated with beds of the same names as identified by Baker (1929) and by Natson and others (1973) near Kirby, about 7 miles southeast of the Crow Reserve Area. The Cook coal bed is correlated with the Cook bed of the Kirby area as used by Natson and others (1973). The Robinson coal bed is tentatively correlated with the Robinson bed of the Forsyth coal field (Dobbin, 1929), about 15 miles northeast of the Crow Reserve Area. The names Hope, Corral, and Swift are used here for coals in the interval between the Wall and Robinson beds. These coals could not be correlated with named coal beds in nearby mapped areas.

REFERENCES CITED

Baker, A. A., 1929, The northward extension of the Sheridan coal field, Big Horn and Rosebud Counties, Montana: U. S. Geological Survey Bulletin 806-B, p. 15-67.

Dobbin, C. E., 1929, The Forsyth coal field, Rosebud, Treasure, and Big Horn Counties, Montana: U. S. Geological Survey Bulletin 812-A, p. 1-55.

Natson, R. E., Blamer, J. W., and Negelis, L. A., 1973, Quality and reserves of stripable coal, selected deposits, southeastern Montana: Montana Bureau Mines and Geology, Bulletin 91, 135 p.



107°15' R.36 E.



107°15' R.36 E.

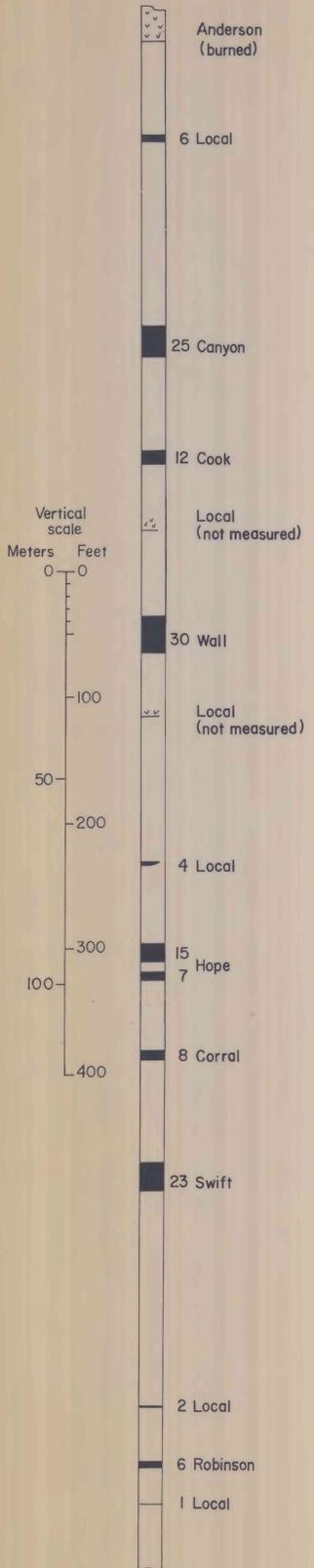
R.37 E.

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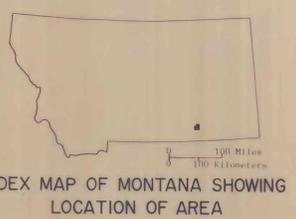
107°00'

Base map from U. S. Geological Survey quadrangle maps, 1967

Geology mapped in 1978



GENERALIZED SECTION SHOWING STRATIGRAPHIC POSITION AND REPRESENTATIVE THICKNESSES, IN FEET, OF COAL BEDS



PRELIMINARY GEOLOGIC MAP OF THE CROW RESERVE AREA, BIG HORN COUNTY, MONTANA

By
W.J. Mapel
1978