OHIO STATE UNIVERSITY

EXPLANATION

Qal
Alluvium
(Not mapped along Pumpkin Creek.)

Qtp
Uncorrelated gravel

Qtp^K, Qtp^J, Qtp^I, Qtp^H, Qtp^G, Qtp^F, Qtp^E, Qtp^D, Qtp^C, Qtp^B, Qtp^A
Terrace gravel
Qtp^K highest *(oldest)*
Qtp^A lowest *(youngest)*

Recent
Pleistocene and Pliocene (?)
QUATERNARY AND TERTIARY (?)

Tmg^B
Terrace gravel
Miocene (?) or Pliocene (?)

Tfut
Tongue River member
(Mostly sandstone, "yellow beds," some shale. Several thick coal beds.)

Tful
Lebo shale member
(Somber shale predominant. Some lenticular sandstone. Coal beds lenticular and impure. Big Dirty coal bed at base in the western part of the field. Local coal beds at base elsewhere.)

Eocene
Fort Union formation
TERTIARY

Tlt
Tullock member
(Alternating beds of sandstone and shale. Sandstone predominant in western part of area, shale in eastern part. Contains several coal beds. Wright coal bed at base.)

Tlhc
Hell Creek member
(Sandstone and shale. Non-coal-bearing.)

Eocene (?)
Lance formation
TERTIARY (?)

Coal clinker and approximate limit of burning

Outcrop of coal bed.
(Triangle indicates point where coal was measured. Numbers correspond to those in text and on coal section plates.)

A B
Areas where coal can be mined by open cut
(Shown in same colors as outcrops of coal beds.)
A-Cover 50 feet or less.
B-Cover 60 feet or less.

U D
Fault
(U-*Upthrow*; D-*Downthrow*.)

2°
Strike and dip

⚒
Coal prospect or mine

+
Corner stone found

A. HOEN & CO., LITH.

Geology by W. G. Pierce, assisted by D. A. Andrews, R. W. Brown, F. H. Kellogg, T. D. Mundorf, A. W. Quinn, G. C. Sleight, and H. E. Thomas. Surveyed in 1929 and 1930.

Base from author's field sheets and U. S. Land Office plats.

GEOLOGIC MAP OF THE ROSEBUD COAL FIELD, MONTANA

Scale $\frac{1}{62,500}$

1 0 1 2 3 4 5 Miles

1936