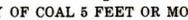


OPEN-FILE REPORT
This report has not been edited for conformity with
U.S. Geological Survey editorial standards or
stratigraphic nomenclature.

EXPLANATION

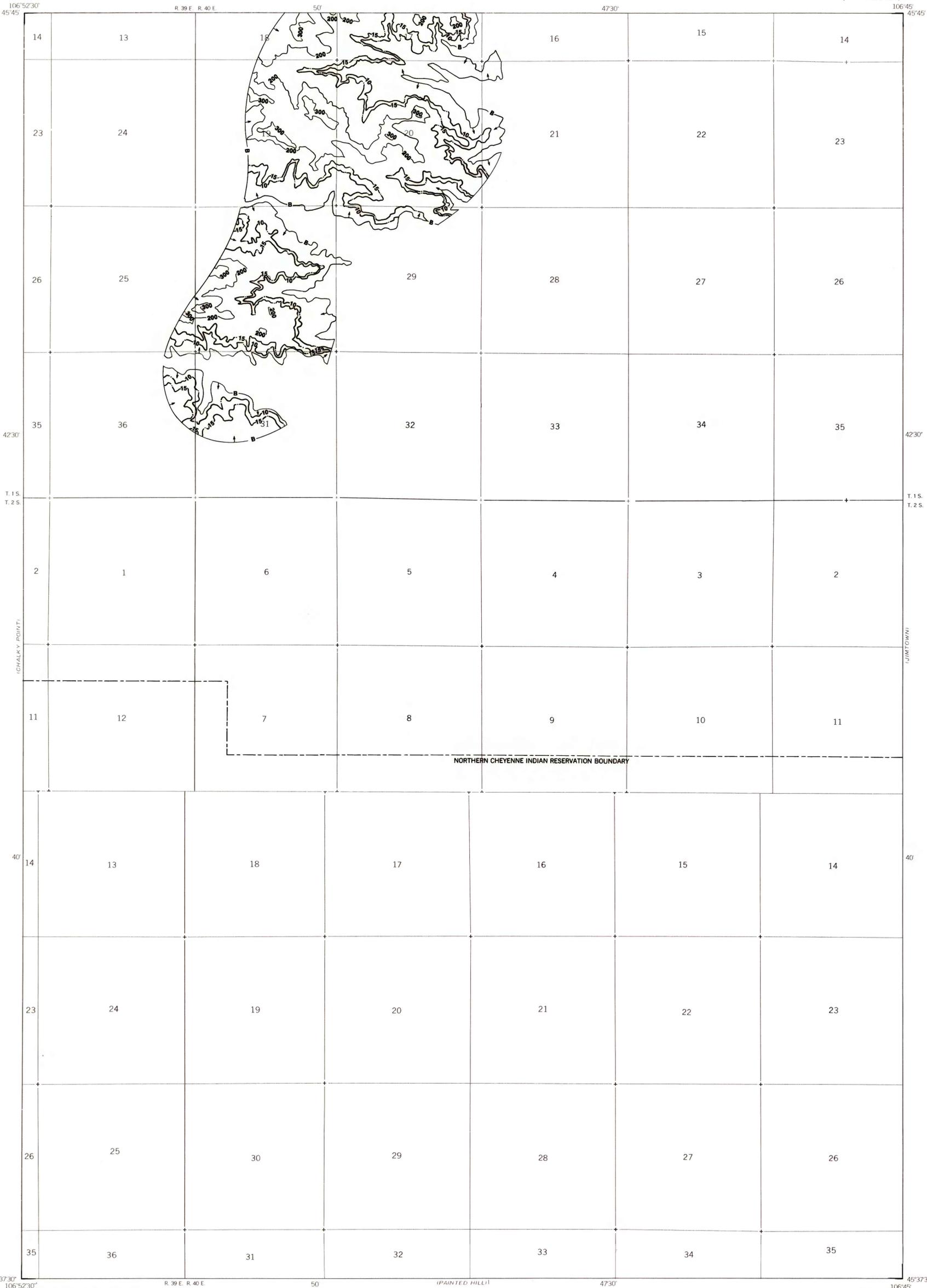
 **200**
OVERBURDEN ISOPACH—Showing thickness of overburden, in feet, from the surface to the top of the coal bed. The 100-foot isopach is omitted where it is too close to a mining-ratio contour for map readability. Isopach interval 100 feet (30.5 m).

 **B**
BOUNDARY OF COAL 5 FEET OR MORE THICK—Drawn along the outcrop of coal bed and/or the inferred contact between burned and unburned coal, and/or the 5-foot coal isopach. Arrows point toward area of coal 5 feet or more thick.

 **10**
MINING-RATIO CONTOUR—Number indicates cubic yards of overburden per ton of recoverable coal by surface-mining methods. Contours shown only in areas suitable for surface mining within the stripping limit.

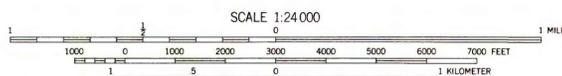
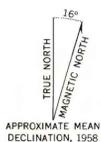
To convert feet to meters, multiply feet by 0.3048.

To convert yds³/ton to m³/metric ton, multiply yds³/ton by 0.842.



Base map from U.S. Geological Survey, 1958

Compiled in 1977



**COAL RESOURCE OCCURRENCE MAP OF THE BLACK SPRING QUADRANGLE,
ROSEBUD AND BIG HORN COUNTIES, MONTANA**

**BY
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE
1979**

**PLATE 5
OVERBURDEN ISOPACH AND MINING-RATIO
MAP OF THE SAWYER COAL BED**