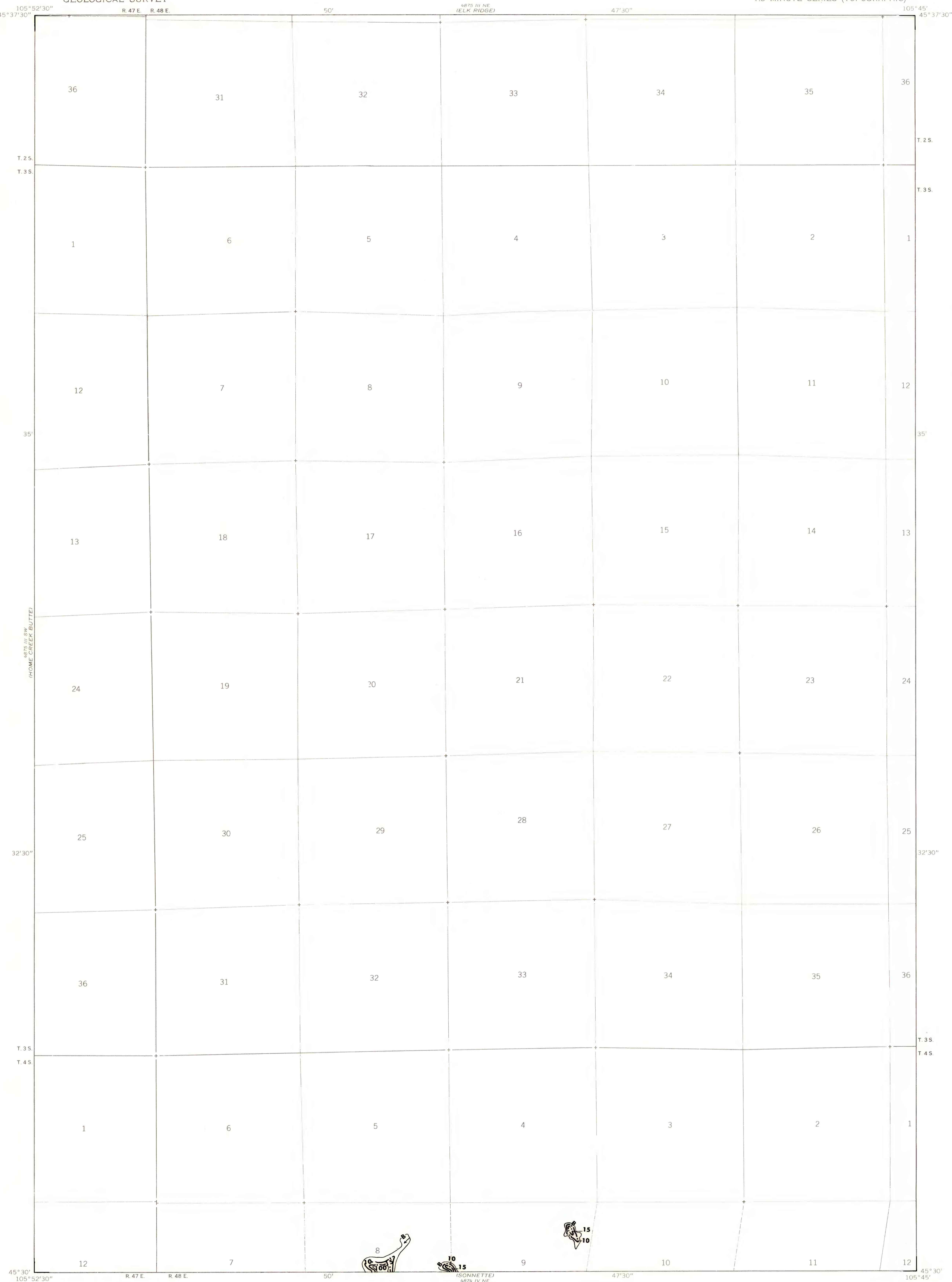


OPEN-FILE REPORT
This report has not been edited for conformity with
U.S. Geological Survey editorial standards or
stratigraphic nomenclature.



EXPLANATION

100
OVERBURDEN ISOPACH—Showing thickness of overburden, in feet, from the surface to the top of the coal bed. Overburden isopachs within the stripping limit are omitted where they are too close to a mining-ratio contour for map readability. Isopach interval 100 feet (30.5 m).

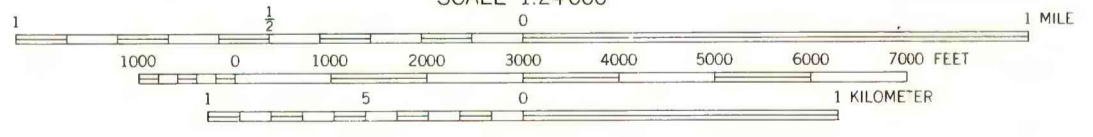
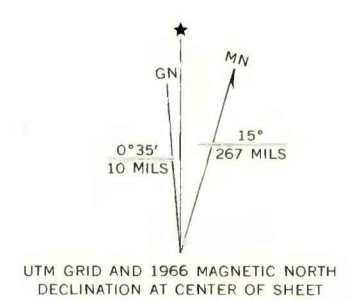
B
BOUNDARY OF COAL 5 FEET OR MORE THICK—Drawn along the outcrop of coal bed and/or the inferred contact between burned and unburned coal and/or the 5-foot coal isopach. Arrows point toward area of coal 5 feet or more thick.

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

To convert feet to meters, multiply feet by 0.3048.

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

THREEMILE BUTTES
48° 14' N
105° 14' W



**COAL RESOURCE OCCURRENCE MAP OF THE SAMUELSON RANCH QUADRANGLE,
POWDER RIVER COUNTY, MONTANA**
BY
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE
1979

PLATE 5
OVERBURDEN ISOPACH AND MINING-RATIO
MAP OF THE UPPER SPLIT OF
THE COOK COAL BED

Base map from U.S. Geological Survey, 1966

Compiled in 1977