UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OTTER QUADRANGLE
MONTANA—POWDER RIVER CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

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

**OPEN FILE REPORT 79–105**

**PLATE 31 OF 59**

EXPLANATION

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OVERBURDEN ISOPACHS--Showing thickness of overburden, in feet, from the surface to the top of the coal bed. Isopach interval 200 feet (61 m).

SL

STRIPPING-LIMIT LINE--Boundary for surface mining of the coal bed (in this quadrangle, the 200-foot-overburden isopach). Arrows point toward the area suitable for surface mining.

10

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

B

BOUNDARY OF RESERVE BASE COAL--Drawn along the outcrop of coal bed or the contact between burned and unburned coal where the coal bed is 5 feet (1.5 m) or more thick, and the 5-foot (1.5-m) coal isopach. Arrows point toward area of Reserve Base coal.

o 242

DRILL HOLE--Showing thickness of overburden, in feet, from the surface to the top of the coal bed.

To convert cubic yards of overburden per short ton of recoverable coal to cubic meters of overburden per metric ton of recoverable coal, multiply by 0.84.

To convert feet to meters, multiply feet by 0.3.

Base from U.S. Geological Survey, 1972

Compiled in 1977

SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETRE

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

MONTANA
QUADRANGLE LOCATION

# COAL RESOURCE OCCURRENCE AND COAL DEVELOPMENT POTENTIAL MAPS OF THE OTTER QUADRANGLE, POWDER RIVER COUNTY, MONTANA

BY

E. J. McKAY AND L. N. ROBINSON

1979

PLATE 31
OVERBURDEN ISOPACH AND MINING RATIO MAP OF THE OTTER COAL BED