

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

**OPEN FILE REPORT 78-039**  
**PLATE 41 OF 69**

**EXPLANATION**

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

**BOUNDARY OF RESERVE BASE COAL**--Drawn along the outcrop of coal bed or the contact between the burned and unburned coal, the 5-foot (1.5-m) coal isopach, and an arc 3 miles (4.8 km) from nearest complete measurement of coal bed. Arrows point toward area of Reserve Base coal.

**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.

**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.

**DRILL HOLE**-- Upper number is thickness of overburden, in feet, from surface to top of the coal bed. Lower number is the mining ratio.

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.

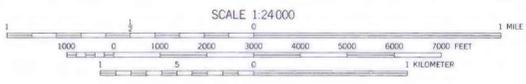
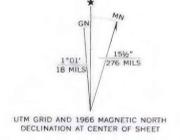
To convert feet to meters, multiply feet by 0.3.

FOUR CORNERS (SEE BUTTE) TOWNSHIP

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Base from U.S. Geological Survey, 1966

Compiled in 1977



**COAL RESOURCE OCCURRENCE AND COAL DEVELOPMENT POTENTIAL MAPS OF THE  
BROWNS MOUNTAIN QUADRANGLE, ROSEBUD COUNTY, MONTANA**

BY  
**W. J. MAPEL AND B. K. MARTIN**  
1978

**PLATE 41**  
**OVERBURDEN ISOPACH AND  
MINING-RATIO MAP OF THE  
BREWSTER-ARNOLD COAL BED**