

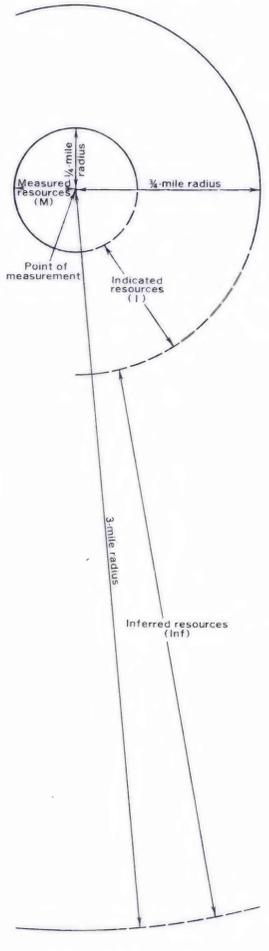
**OPEN-FILE REPORT**  
This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature.  
**OPEN FILE REPORT 78-030**  
**PLATE 17 OF 44**

**EXPLANATION**

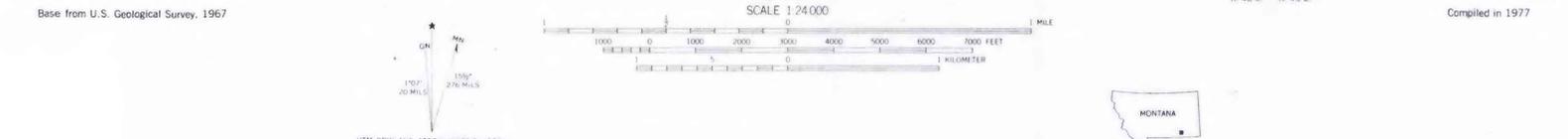
**NON-FEDERAL COAL LAND**—Land for which the Federal Government does not own the coal rights.

**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.

**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. Recovery factor of 85 percent within that area in this quadrangle.



**DIAGRAM SHOWING COMPONENT AREAS OF IDENTIFIED COAL RESOURCES**—Shows arcuate boundary lines enclosing areas of measured, indicated, and inferred coal resources. Boundaries of areas are dashed where projected from an adjacent quadrangle. Areas of inferred resources may be present on this map without their outer boundaries being shown.



**COAL RESOURCE OCCURRENCE AND COAL DEVELOPMENT POTENTIAL MAPS  
OF THE BIRNEY QUADRANGLE, ROSEBUD COUNTY, MONTANA**  
BY  
**W. J. MAPEL AND B. K. MARTIN**  
1978