



**EXPLANATION**

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

ISOPACH - Showing thickness of coal, in feet. Arrow points toward area where coal bed is 5 feet or more thick.

Wd - Wadge  
COAL BED SYMBOL AND NAME

TRACE OF COAL BED OUTCROP - Showing symbol of name of coal bed as listed above. Arrow points toward coal-bearing area. Short dashed where inferred by present authors.

COAL STRIP MINE - Hachures point toward mined area. Dashed where approximately located.

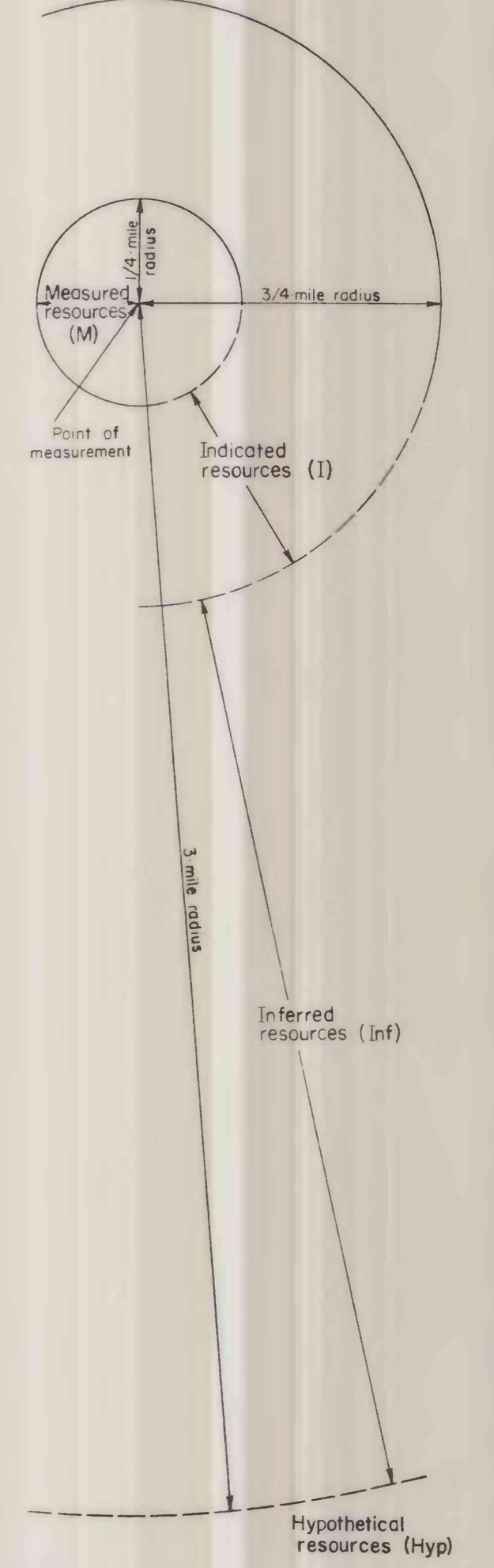
UNDERGROUND MINING LIMIT - Showing areas where dips of coal beds are greater than 15° and underground mining is not considered feasible. Reserve Base tonnages are calculated beyond limit; Reserve tonnages are not. Arrow points toward area where dips are greater than 15°.

STRIPPING-LIMIT LINE - Boundary for surface mining (in this quadrangle, the 200-foot-overburden isopach). Arrow points toward the area suitable for surface mining where the recovery factor is 85 percent, and away from the area suitable for subsurface mining (down dip to the 3,000-foot-overburden isopach) where the recovery factor is 50 percent.

3000-FOOT-OVERBURDEN ISOPACH - Beyond which identified resources are not shown.

RB	R(85%)	RB	R(50%)	(Measured)
0.11	0.09	—	—	(Measured)
0.03	0.03	—	—	(Indicated)
—	—	8.04	4.02	(Inferred)
—	—	—	—	(Hypothetical)
—	—	Hyp	1.48	

IDENTIFIED COAL RESOURCES - Showing totals for Reserve Base (RB) and Reserves (R), in millions of short tons, for each section or part of section of non-leased Federal coal land, both within and beyond the stripping-limit line. Reserve (R) tonnage is calculated by multiplying the Reserve Base (RB) tonnage by the appropriate recovery factor. Dash indicates no resource in that category. Underground Reserves have been calculated for only that part of the Reserve Base that is suitable for underground mining, and do not include Reserves for areas where the dip of the coal bed exceeds 15°. Therefore, in some instances, underground Reserves may be less than 50 percent of the Reserve Base.



BOUNDARY LINES - Enclosing areas of measured (M), indicated (I), and inferred (Inf) coal resources. Dashed where projected from adjacent quadrangles. Hypothetical resources are calculated for each section of Federal land for these areas beyond the inferred category, following the guidelines given in U.S. Geol. Survey Bulletin 1450-B. No reserve tonnages are calculated from hypothetical resources.

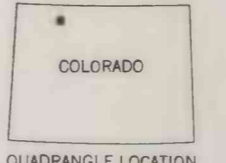
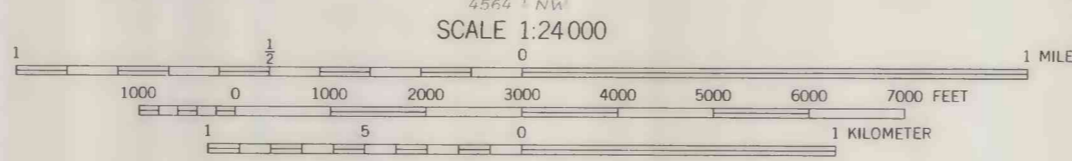
To convert feet to meters, multiply feet by 0.3048.

To convert short tons to metric tons, multiply short tons by 0.9072.

To convert miles to kilometers, multiply miles by 1.609.

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

Base from U.S. Geological Survey, 1971



Compiled in 1977/1978

**COAL RESOURCE OCCURRENCE MAP OF THE HOOKER MOUNTAIN QUADRANGLE, ROUTT COUNTY, COLORADO**  
BY **DAMES & MOORE**  
1978