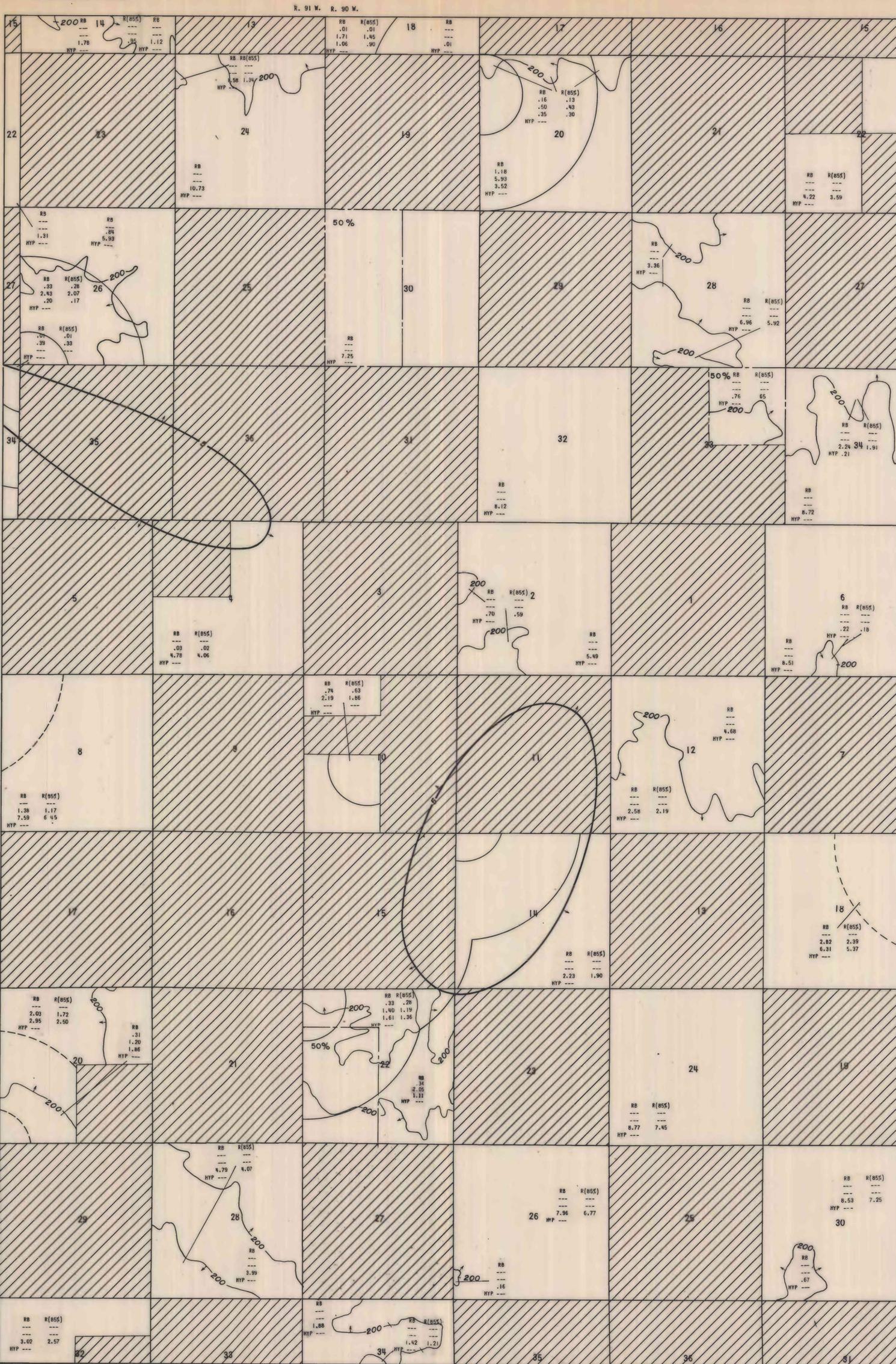
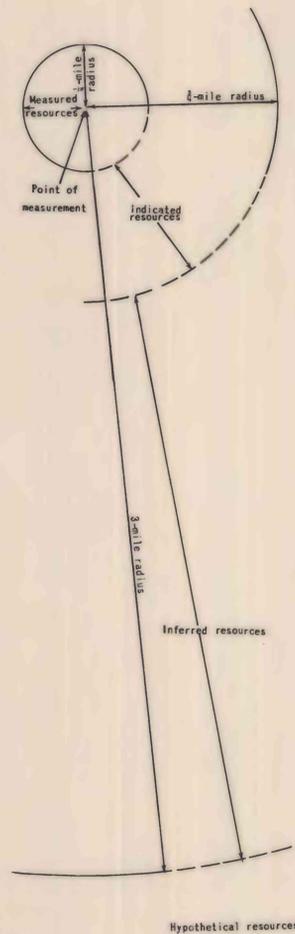


This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature.



EXPLANATION

- NON-FEDERAL COAL LAND--Land for which the Federal Government does not own the coal rights.
- RESTRICTED FEDERAL COAL RIGHTS--Showing the percentage of Federal Government ownership.
- LIMIT OF RESERVE BASE COAL--5 foot coal isopach. Arrow points toward reserve base coal.
- 200-FOOT OVERBURDEN ISOPACH--Used as boundary for surface mining. Arrows point toward area suitable for surface mining.



BOUNDARY LINES--Showing areas of measured, indicated, inferred, and hypothetical coal resources. Dashed where projected from adjacent quadrangles.

RB	R(85%)	HYP
4.8	4.1	
42.4	36.0	
65.5	55.7	
		1.3

(Measured resources)
(Indicated resources)
(Inferred resources)
(Hypothetical resources)

IDENTIFIED AND HYPOTHETICAL RESOURCES--Showing totals for Reserve Base (RB) and, in areas suitable for surface mining, Reserves (R), in millions of short tons by section. Dash indicates no resources in that category. Reserve Base (RB) x Recovery Factor (85%) = Reserves (R).

Recovery factors have not been established for underground development of the coal in this quadrangle. Therefore, Reserves (R) were not calculated in areas where the overburden thickness exceeds 200 feet.

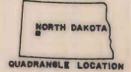
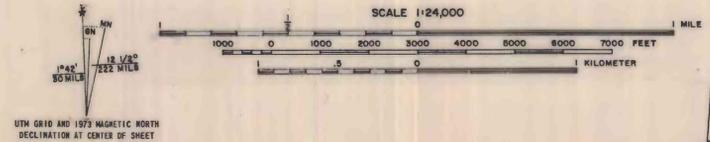
To convert short tons to metric tons, multiply short tons by 0.9072.

To convert feet to meters, multiply feet by 0.3048.

BASE FROM U.S. GEOLOGICAL SURVEY, 1970

R. 91 W. R. 90 W.

COMPILED IN 1978



COAL RESOURCE OCCURRENCE MAP OF THE DODGE QUADRANGLE,
DUNN AND MERCER COUNTIES, NORTH DAKOTA

PLATE 14
AREAL DISTRIBUTION OF IDENTIFIED AND HYPOTHETICAL
RESOURCES OF THE BEULAH-ZAP COAL BED

BY
WOODWARD-CLYDE CONSULTANTS
1978