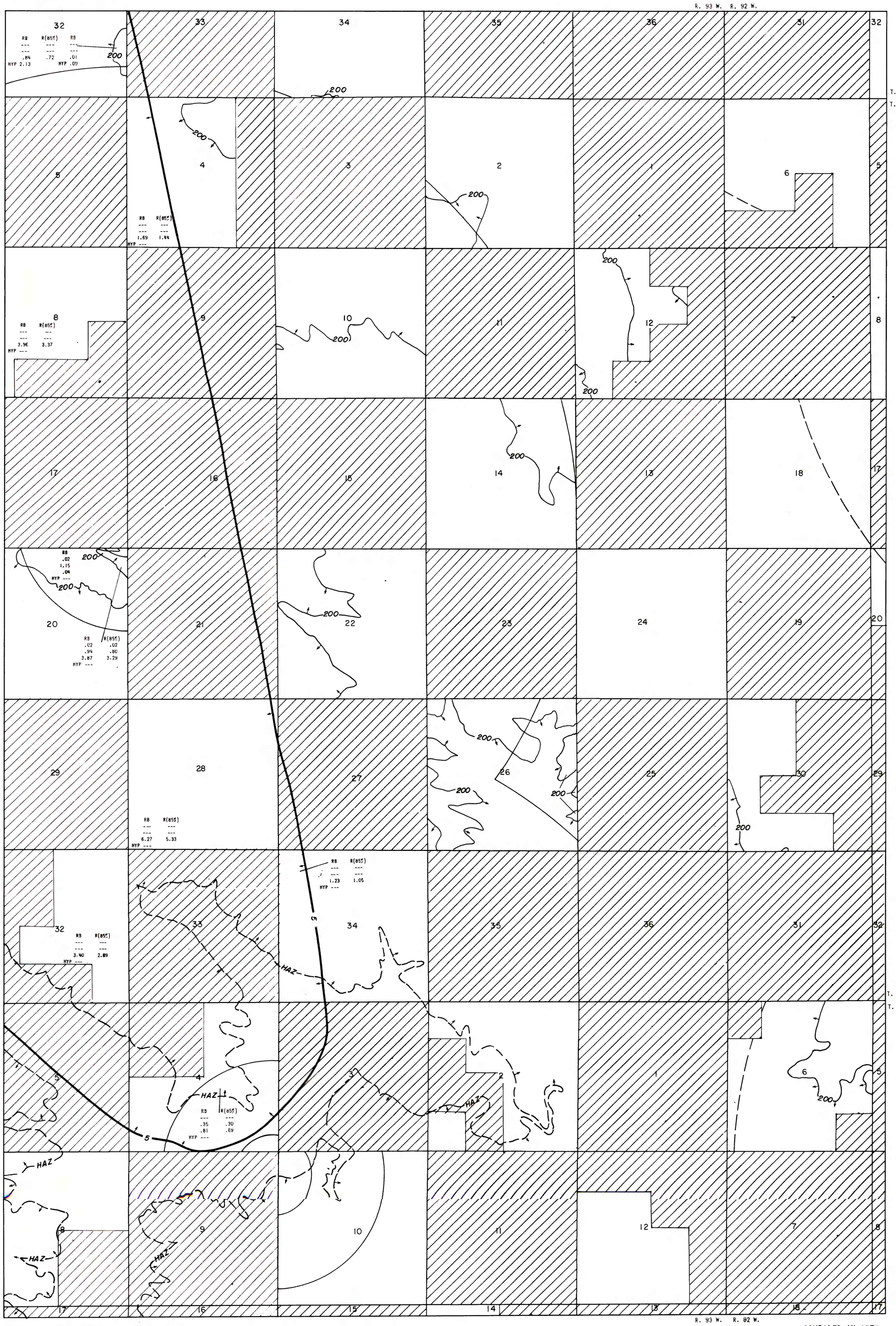
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OPEN FILE REPORT 78-616

PLATE II OF 18

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



BASE FROM U.S. GEOLOGICAL SURVEY, 1970

COMPILED IN 1978

EXPLANATION

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

5

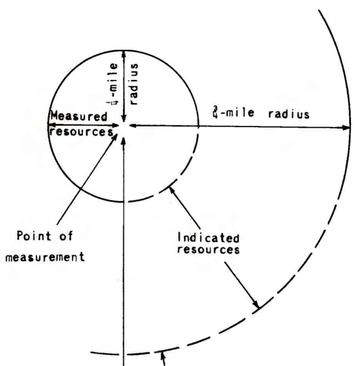
LIMIT OF RESERVE BASE COAL -- 5 foot coal isopach. Arrow points toward reserve base coal.

200

200 FOOT OVERBURDEN ISOPACH-- Used as boundary for surface mining. Arrows point toward area suitable for surface mining.

HAZ

TRACE OF INFERRED COAL BED OUTCROP--Arrow points toward coal bearing area.



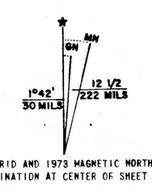
BOUNDARY LINES--Showing areas of measured, indicated, inferred, and hypothetical coal resources. Dashed where projected from adjacent quadrangles.

RB	R(85%)	
4.8	4.1	(Measured resources)
42.4	36.0	(Indicated resources)
65.5	55.7	(Inferred reources)
HYP 1.3		(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. Each 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 tonnes, multiply short tons by 0.9072.



UTM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24,000

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

NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION

COAL RESOURCE OCCURRENCE MAP OF THE MARSHALL NW QUADRANGLE, DUNN COUNTY, NORTH DAKOTA

BY

WOODWARD-CLYDE CONSULTANTS

1978

PLATE II

AREAL DISTRIBUTION IDENTIFIED AND HYPOTHETICAL RESOURCES OF THE HAZEN COAL BED