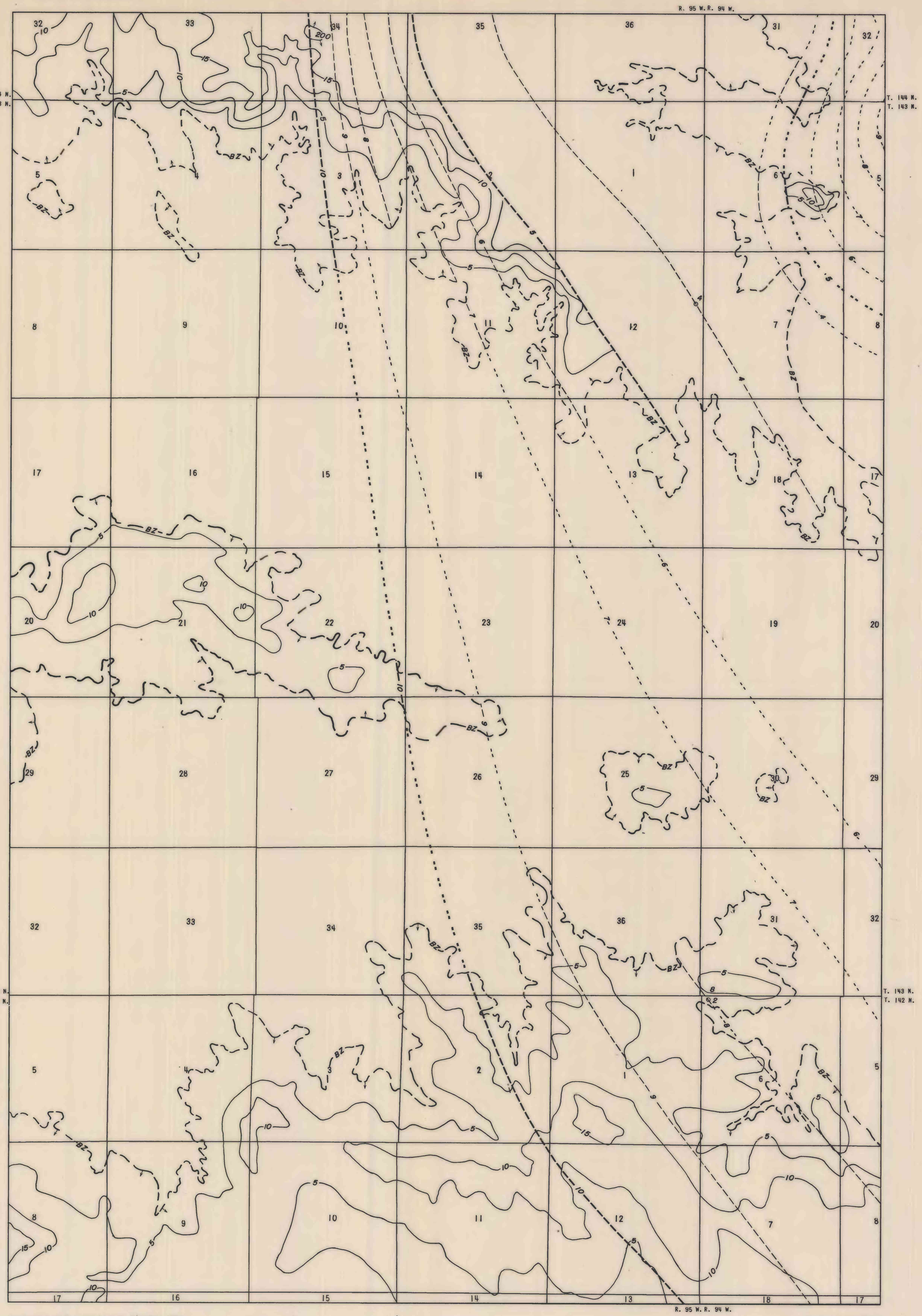
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OPEN FILE REPORT 78-069

PLATE 11 OF 13

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



EXPLANATION

ISOPACH OF COAL BED--Showing thickness in feet. Isopach interval 1 foot (0.3m). Short dashed where projected through noncoal-bearing area.

DRILL HOLE--Showing thickness of the coal bed in feet, (upper number). Showing value of mining ratio for the coal bed (lower number).

MINING RATIO CONTOUR FOR THE COAL BED--Number indicates cubic yards of overburden per ton of recoverable coal by surface mining methods.

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

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

To convert feet to meters, multiply feet by 0.3048.

To convert cubic yards/short ton to cubic meters/metric ton, multiply by 0.842.

BASE FROM U.S. GEOLOGICAL SURVEY, 1970

COMPILED IN 1978

GN MN 1°42' 30 MILS 12 1/2° 222 MILS

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

NORTH DAKOTA

QUADRANGLE LOCATION

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

BY

WOODWARD-CLYDE CONSULTANTS

1978

PLATE 11

ISOPACH AND MINING RATIO MAP OF THE BEULAH ZAP COAL BED