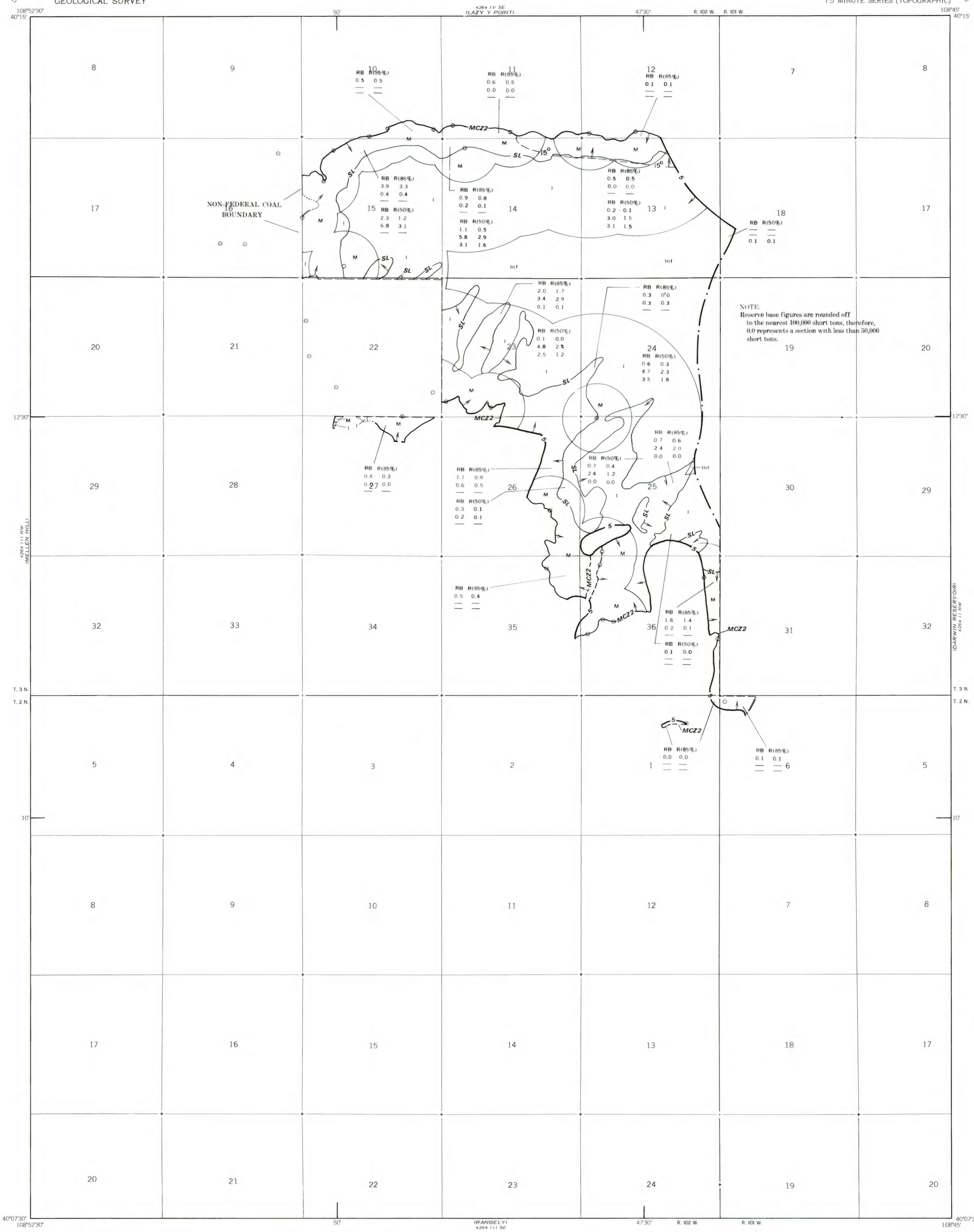
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RANGELY NE QUADRANGLE
COLORADO
7.5 MINUTE SERIES (TOPOGRAPHIC)

OPEN-FILE REPORT 79-1422

PLATE 7 OF 9



Base from U.S. Geological Survey, 1962

Compiled in 1979

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

GN MN 1°25' 25 MILS 15° 267 MILS

UTM GRID AND 1962 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

COLORADO

QUADRANGLE LOCATION

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

EXPLANATION

FEDERAL COAL LEASE BOUNDARY

5

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

MCZ2

TRACE OF COAL BED OUTCROP–Showing symbol of name of coal bed. Arrow points toward coal-bearing area. Dashed where inferred by present authors.

15°

SUBSURFACE MINING LINE–Showing areas where dips of coal beds are greater than 15° and subsurface mining is not considered feasible. Arrow points toward areas where dips are greater than 15°.

POINT OF MEASUREMENT–Point from which boundary lines for measured, indicated, and inferred coal resources were drawn.

INSUFFICIENT DATA LINE–Coal resources were not calculated for areas beyond line shown because of insufficient data.

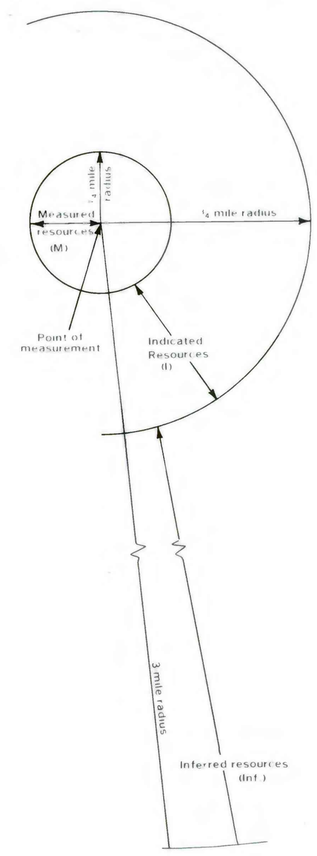
BURNED AND CLINKERED COAL BED–Dotted line indicates the inferred limit of burning. Arrow points toward area of unburned coal.

SL

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.

Surface		Subsurface		
RB	R(85%)	RB	R(50%)	
0.5	0.5	0.2	0.1	(Measured)
0.0	0.0	2.9	1.5	(Indicated)
—	—	3.1	1.5	(Inferred)

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°. Also, Reserves have been calculated for a constant thickness of 12 feet for areas where the coal beds are more than 12 feet thick. Therefore, in some instances, underground Reserves may be less than 50 percent of the Reserve Base.



BOUNDARY LINES–Enclosed areas of measured, indicated, and inferred resources of the coal bed.

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

To convert feet to meters, multiply feet by 0.3048.

PLATE 7
AREAL DISTRIBUTION AND
IDENTIFIED RESOURCES MAP
OF COAL BED 2
OF THE
MAIN COAL ZONE

COAL RESOURCE OCCURRENCE MAP OF THE RANGELY NE QUADRANGLE, RIO BLANCO AND MOFFAT COUNTIES, COLORADO

BY

AAA ENGINEERING AND DRAFTING, INC.

1980