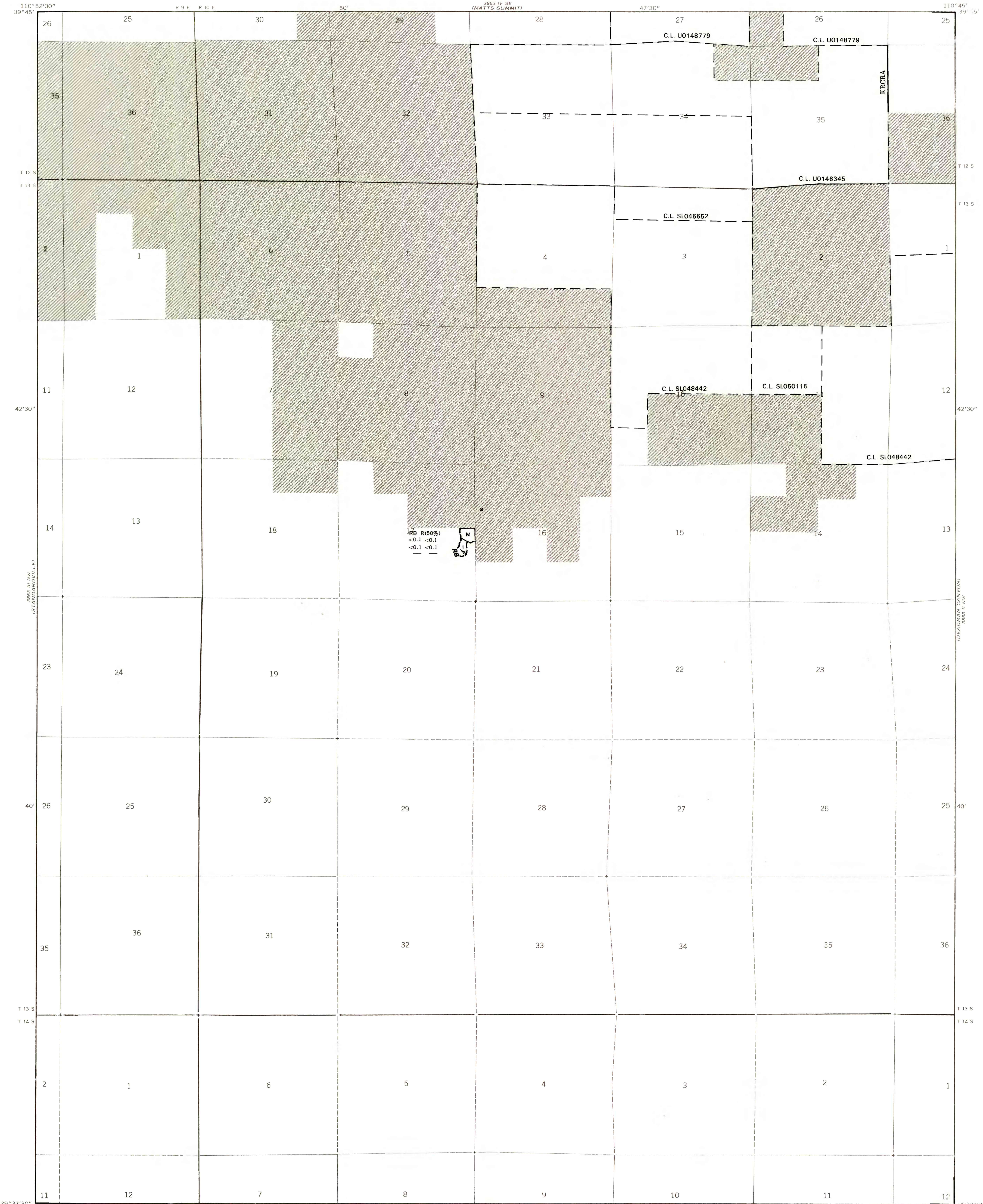


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

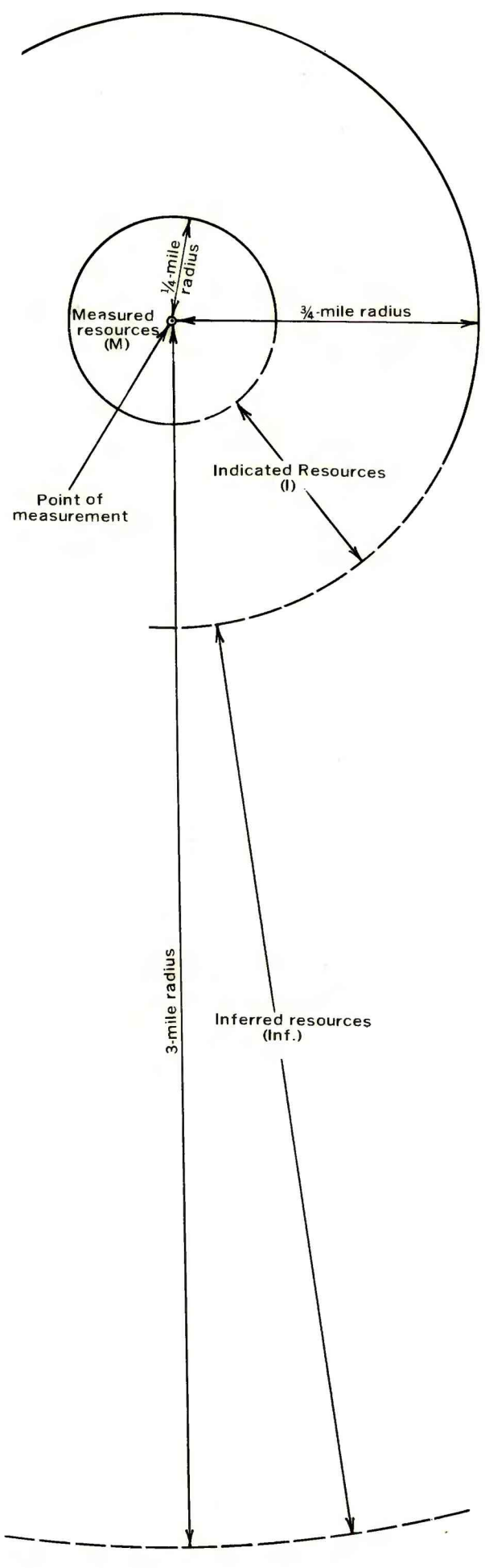
STATE OF UTAH
UTAH GEOLOGICAL AND MINERAL SURVEY

HELPER QUADRANGLE
UTAH-CARBON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



EXPLANATION

- KRCRA**
KRCRA BOUNDARY—Label within boundary.
- NON-FEDERAL COAL LAND**—Land for which the Federal Government does not own the coal rights.
- FEDERAL COAL LEASE BOUNDARY**—Lease number within boundary.
- ISOPACH**—Showing thickness of coal, in feet.
- TRACE OF COAL BED OUTCROP**—Showing symbol of name of coal bed. Arrow points toward area where coal bed is 5 feet or more thick. Dashed where inferred by present authors.
- 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 within the KRCRA. Reserve (R) tonnage is calculated by multiplying the Reserve Base (RB) tonnage by the appropriate recovery factor. Dash indicates no resource in that category.
- POINT OF MEASUREMENT**—Point from which boundary lines for measured, indicated, and inferred coal resources were drawn.



BOUNDARY LINES—Enclosed areas of measured, indicated, and inferred coal resources of the coal bed. Dashed where projected from adjacent quadrangles.

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

To convert feet to meters, multiply feet by 0.3048

39° 37' 30" 110° 52' 30" R 9 E R 10 E 50' 47' 30" 110° 45' 39' 37' 30"

Base from U.S. Geological Survey, 1972

Compiled in 1978

