UNITED STATES THREEMILE BUTTES QUADRANGLE **OPEN FILE REPORT 79-100** DEPARTMENT OF THE INTERIOR MONTANA-POWDER RIVER CO. **PLATE 20 OF 52** GEOLOGICAL SURVEY 7.5 MINUTE SERIES (TOPOGRAPHIC) 4875 III SW (HOME CREEK BUTTE) 105°52′30″ 45°30′ R. 46 E. R. 47 E. OPEN-FILE REPORT This report has not been edited for conformity with U.S. Geological Survey editorial standards or 10 12 11 stratigraphic nomenclature. EXPLANATION 14 13 13 18 16 OVERBURDEN ISOPACH—Showing thickness of overburden, in feet, from the surface to the top of the coal NOTE: Where no mining-ratio contour is shown in the outliers of Reserve bed. Overburden isopachs within the stripping limit are Base coal, the mining-ratio value is omitted where they are too close to a mining-ratio contour for map readability. Isopach interval 100 feet less than 10. (30.5 m). BOUNDARY OF COAL 5 FEET OR MORE THICK—Drawn along the outcrop of coal bed and/or the inferred contact between burned and unburned coal and/or the 5-foot coal isopach. Arrows point toward area of coal 5 feet or more thick. 22 24 24 23 DRILL HOLE-Showing thickness of overburden, in feet, from the surface to the top of the coal bed. -· -· -· 10 · -· · -· MINING-RATIO CONTOUR—Number indicates cubic yards of overburden per short ton of recoverable coal by surface-mining methods. Contours shown only in areas suitable for surface mining within the stripping limits. To convert feet to meters, multiply feet by 0.3048. 27'30 To convert yds<sup>3</sup>/ton to m<sup>3</sup>/metric ton, multiply yds<sup>3</sup>/ton by 27 25 25 26 34 35 31 32 T. 5 S. 11 9 10 13 13 14 17 16 15 18 24 20 24 22 23 21 19 28 27 30 45°22′30″ 105°52′30″ (PHILLIPS BUTTE) 4874 IV SW Compiled in 1977 SCALE 1:24 000 Base map from U.S. Geological Survey, 1966 MONTANA

COAL RESOURCE OCCURRENCE MAP OF THE THREEMILE BUTTES QUADRANGLE, POWDER RIVER COUNTY, MONTANA

UTM GRID AND 1966 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

BY COLORADO SCHOOL OF MINES RESEARCH INSTITUTE 1979

QUADRANGLE LOCATION

PLATE 20

OVERBURDEN ISOPACH AND MINING-RATIO MAP OF THE WALL COAL BED