UNITED STATES SONNETTE QUADRANGLE DEPARTMENT OF THE INTERIOR MONTANA-POWDER RIVER CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) GEOLOGICAL SURVEY 4875 III SE (SAMUELSON RANCH) 105°45′ 45°30′ 105°52′30″ 45°30′ 47'30" R. 47 E. R. 48 E. This report has not been edited for conformity with 12 11 10 12 17 14 15 13 18 13 OVERBURDEN ISOPACH—Showing thickness of overburden, in feet, from the surface to the top of the coal bed. The 100-foot isopach is omitted where it is too close to a mining-ratio contour for map readability. Isopach interval 100 feet (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 23 19 20 24 24 MINING-RATIO CONTOUR—Number indicates cubic yards of overburden per ton of recoverable coal by surface-mining methods. Contours shown only in areas suitable for surface mining within the stripping limit. To convert feet to meters, multiply feet by 0.3048. 27'30" 27'30" 25 26 25 27 28 30 29 32 34 33 NOTE: Where no mining-ratio contour is shown in the outliers of Reserve Base coal, the mining-ratio value is less than 10. T. 4 S. T. 5 S. 11 10 14 16 24 23 (HODSON FLATS) 4874 IV SE SCALE 1:24000 47'30" Compiled in 1977 Base map from U.S. Geological Survey, 1966

> COAL RESOURCE OCCURRENCE MAP OF THE SONNETTE QUADRANGLE, POWDER RIVER COUNTY, MONTANA BY COLORADO SCHOOL OF MINES RESEARCH INSTITUTE

1979

PLATE 12

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U.S. Geological Survey editorial standards or stratigraphic nomenclature.

**EXPLANATION**