UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

VOLBORG QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)

**OPEN FILE REPORT 79-019**
**PLATE 4 OF 13**

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

EXPLANATION

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4

ISOPACHS OF THE KNOBLOCH COAL BED—Showing thickness, in feet. Isopach interval 1 foot.

5 $Kn_2$
6 $Kn_2$

ISOPACHS OF THE LOWER KNOBLOCH SPLIT OF THE KNOBLOCH COAL BED—Showing thickness, in feet. Isopach interval 1 foot.

3360
3380
3400 $Kn_1$
3420 $Kn_1$

STRUCTURE CONTOURS—Drawn on the top of the Knobloch coal bed or the Upper Knobloch split. Dashed where projected beyond boundary of coal. Contour interval 20 feet (6.1 m). Datum is mean sea level.

3400 $Kn_2$
3420 $Kn_2$

STRUCTURE CONTOURS—Drawn on the top of the Lower Knobloch split of the coal bed. Short dashed where projected beyond boundary of coal. Contour interval 20 feet (6.1 m). Datum is mean sea level.

4.2 $Kn_2$
3320 $Kn_2$
$B_2$

BOUNDARY OF COAL DEPOSIT—Drawn along the outcrop of the coal bed or the contact between burned and unburned coal (dashed where inferred by present author beyond the limits of original data). Arrows point toward the coal-bearing area. Number at triangle is altitude, in feet, of the top of the coal bed taken from topographic map at a point of coal thickness measurement. Subscript number on B indicates which coal split boundary is shown.

To convert feet to meters, multiply feet by 0.3048.

NOTE: Upper Knobloch isopachs are not drawn because the bed thickness is less than the 5-foot Reserve Base coal.

SPLIT LINE OF THE KNOBLOCH COAL BED

Base map from U.S. Geological Survey, 1973

Compiled in 1977

SCALE 1:24 000

UTM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

# COAL RESOURCE OCCURRENCE MAP OF THE VOLBORG QUADRANGLE CUSTER AND POWDER RIVER COUNTIES, MONTANA

BY

COLORADO SCHOOL OF MINES RESEARCH INSTITUTE
1979

PLATE 4

ISOPACH AND STRUCTURE CONTOUR MAP OF THE KNOBLOCH COAL BED AND ITS SPLITS