UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ROUGH DRAW QUADRANGLE
MONTANA—ROSEBUD CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

OPEN FILE REPORT 79-017
PLATE 1 OF 22

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

EXPLANATION

INDEX NUMBER OF MEASURED SECTION SHOWN ON PLATE 3 OF CRO MAP—Coal section measured at point of triangle.

LINE OF COMPOSITE SECTION—Showing index number of section shown on plate 3 of CRO map. Composite section is based on nearby coal bed thickness measurements.

5 ○ GL 3543
R 53
C 23(Rb)
R 4
TD 80

COAL TEST HOLE—Showing index number of hole shown on plate 3 of CRO map, and drill-hole data, in feet. Ground elevations of test holes taken from plate 14 of Matson and Blumer (1973) have been raised 35 feet, per original author of plate 14 (C. M. Carmichael, oral commun., Nov., 1977).

GL—Ground elevation
R—Rock interval
C—Coal interval
TD—Total depth

DRILL HOLE DATA SYMBOLS

Ri—Richard
Pr—Proctor
Sa—Sawyer
Po—Popham
Rb₁—Upper Rosebud (Lee)
Rb—Rosebud
L—Local

COAL BED SYMBOLS AND NAMES

7.0 / Sa — 3.3 / 0.1 — C 1.9(L) R 2.1 C 7.3(Sa)

TRACE OF COAL BED OUTCROP—Dashed where approximately located; short dashed where inferred. Showing thickness of coal, or coal-rock intervals, in feet, measured at triangle. Where a thickness fraction is shown, it indicates the net coal thickness (upper number) and net partings thickness (lower number). Letters designate the name of the coal bed as listed above. Arrow points toward coal-bearing area. Trace of coal outcrop has been modified from Dobbin (1930, pl. 7), Kepferle (1954, fig. 3), and Matson and Blumer (1973, pl. 14) to fit modern topographic map.

BURNED AND CLINKERED COAL BED—Showing area of baked and fused rock (v symbol). Dotted line indicates the inferred limit of burning.

U / D

FAULT—Dashed where approximately located. U, upthrown side; D, downthrown side.

6.7 ⚒

COAL MINE—Showing thickness of coal bed, in feet.

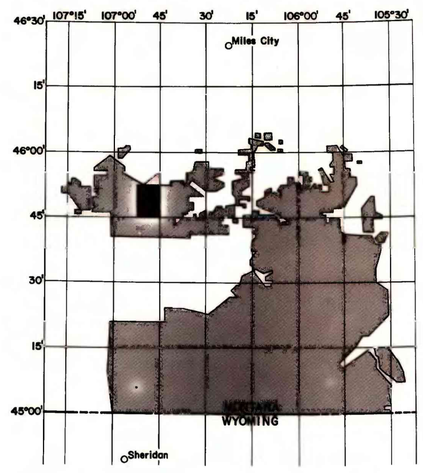
To convert feet to meters, multiply feet by 0.3048.

REFERENCES FOR NONINDEXED DATA POINTS

Dobbins, C. E., 1930, The Forsyth coal field, Rosebud, Treasure, and Big Horn Counties, Montana: U.S. Geol. Survey Bull. 812-A, p. 1-55.

Kepferle, R. C., 1954, Selected deposits of strippable coal in central Rosebud County, Montana: U.S. Geol. Survey Bull. 995-I, p. 333-381.

Matson, R. E., and Blumer, J. W., 1973, Quality and reserves of strippable coal, selected deposits, southeastern Montana: Mont. Bur. Mines and Geol. Bull. 91, 135 p.



INDEX MAP—Showing location of the Rough Draw quadrangle and the Northern Powder River Basin Known Recoverable Coal Resource Area (stippled), Montana

Base map from U.S. Geological Survey, 1971

Compiled in 1977

SCALE 1:24 000

UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

QUADRANGLE LOCATION

COAL RESOURCE OCCURRENCE MAP OF THE ROUGH DRAW QUADRANGLE, ROSEBUD COUNTY, MONTANA

BY

COLORADO SCHOOL OF MINES RESEARCH INSTITUTE

1979

PLATE 1
COAL DATA MAP