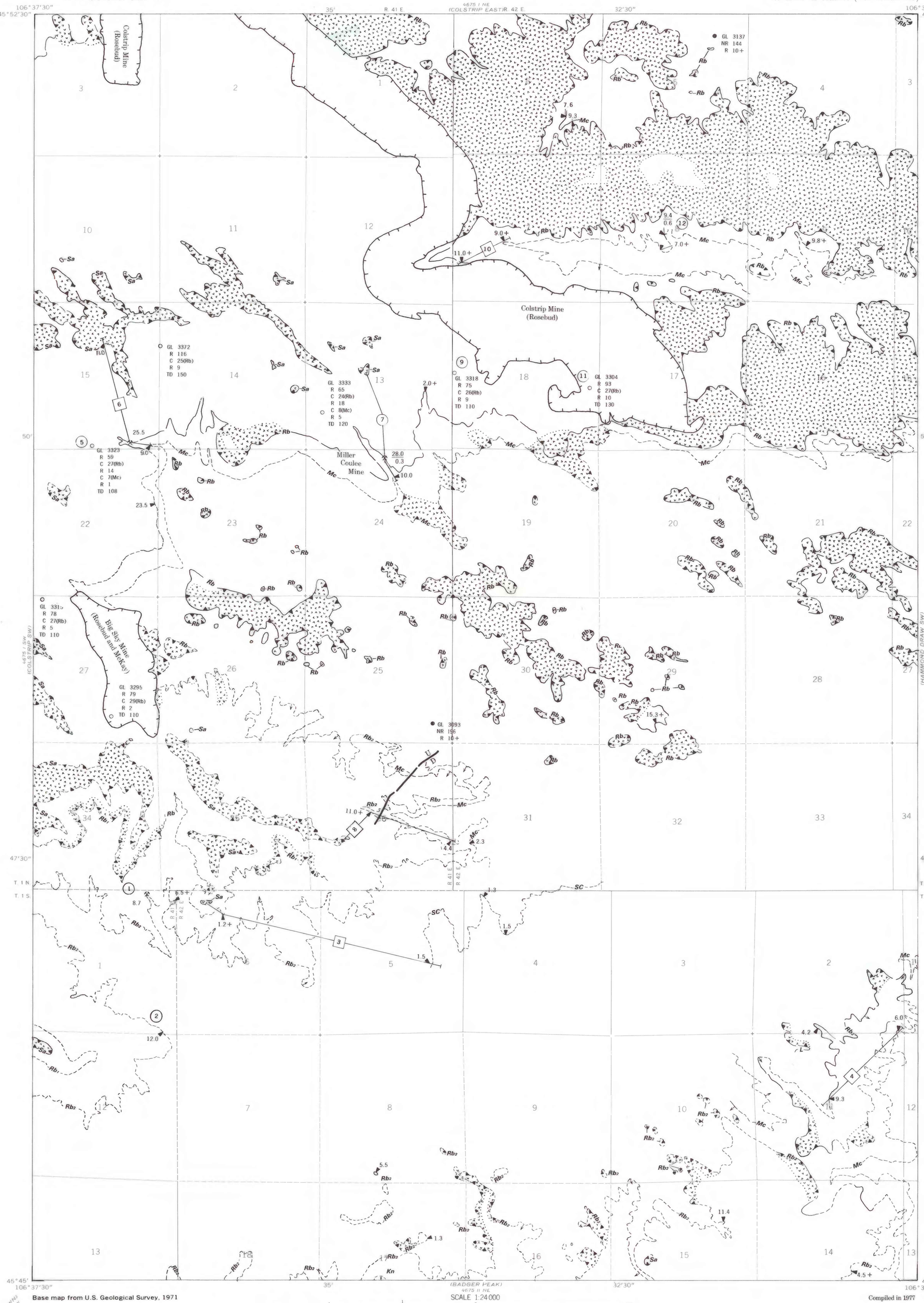
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COLSTRIP SE QUADRANGLE
MONTANA—ROSEBUD CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

OPEN FILE REPORT 79-006
PLATE 1 OF 17




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

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 MEASURED SECTION—Showing index number of section shown on plate 3 of CRO map.

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.

GL 3093
NR 208
R 10+

OIL AND GAS TEST HOLE—Showing drill-hole data, in feet.

GL 3323
R 59
C 27(Rb)
R 14
C 7(Mc)
R 1
TD 108

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
NR—No record
R—Rock interval
C—Coal interval
TD—Total depth

DRILL-HOLE DATA SYMBOLS

*Sa*—Sawyer
*Rb₁*—Upper Rosebud
*Rb₂*—Lower Rosebud
*Rb*—Rosebud
*Mc*—McKay
*L*—Local
*SC*—Stocker Creek

COAL BED SYMBOLS AND NAMES

TRACE OF COAL BED OUTCROP—Dashed where approximately located; short dashed where inferred. Showing thickness of coal, 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 Bass (1932, pl. 3), Dobbin (1930, pl. 7), 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.

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

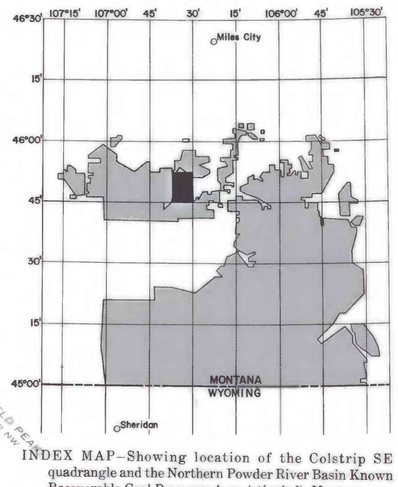
COAL MINE—Showing mine name and thickness of coal bed, in feet.

COAL STRIP MINE—Showing name of mine and coal bed removed. Hachures point towards mined-out area. Boundary dashed where approximately located.

To convert feet to meters, multiply feet by 0.3048.

REFERENCES FOR NONINDEXED DATA POINTS

Bass, N. W., 1932, The Ashland coal field, Rosebud, Powder River, and Custer Counties, Montana: U.S. Geol. Survey Bull. 831-B, p. 19-105.
Dobbin, 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 Colstrip SE quadrangle and the Northern Powder River Basin Known Recoverable Coal Resource Area (stippled), Montana

# COAL RESOURCE OCCURRENCE MAP OF THE COLSTRIP SE QUADRANGLE, ROSEBUD COUNTY, MONTANA

BY

COLORADO SCHOOL OF MINES RESEARCH INSTITUTE

1979

PLATE 1
COAL DATA MAP

79-006