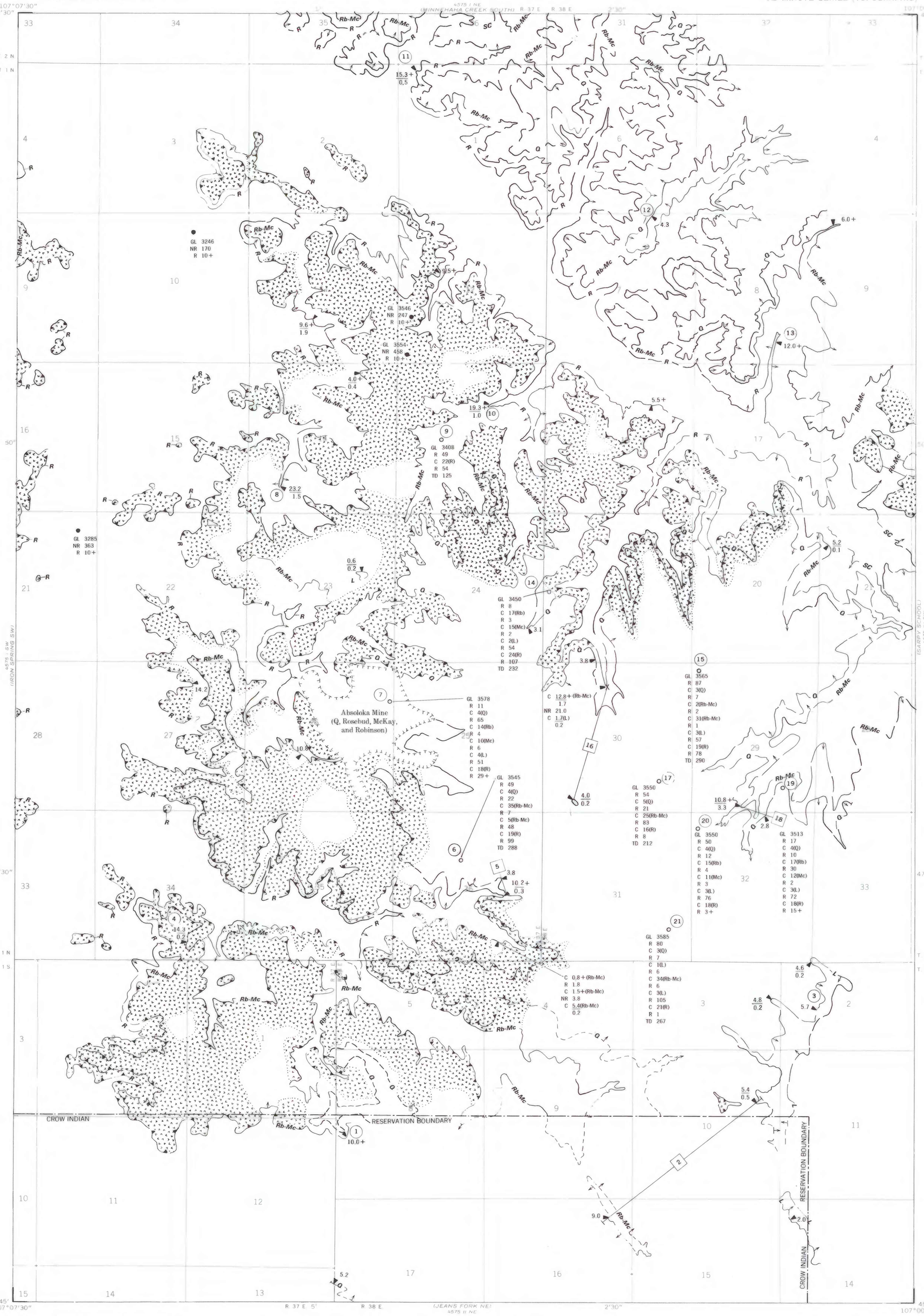
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WOLF SCHOOL QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)

OPEN FILE REPORT 79-020
PLATE 1 OF 17

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



Base map from U.S. Geological Survey, 1972

Compiled in 1977

SCALE 1:24 000

1 MILE

7000 FEET

1 KILOMETER

GN — MN — 1°29' / 26 MILS — 15½° / 276 MILS

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

MONTANA

QUADRANGLE LOCATION

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.

● GL 3246
NR 170
R 10+

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

17 ○ GL 3550
R 54
C 5(Q)
R 21
C 25(Rb-Mc)
R 83
C 16(R)
R 8
TD 212

COAL TEST HOLE—Showing index number of hole on plate 3 of CRO map, and drill-hole data, in feet.

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

DRILL-HOLE DATA SYMBOLS

L—Local
Q—Q bed
Rb—Rosebud
Mc—McKay
Rb-Mc—Rosebud-McKay combined
SC—Stocker Creek
R—Robinson

COAL BED SYMBOLS AND NAMES

C 0.8+(Rb-Mc)
R 1.8
C 1.5(Rb-Mc)
NR 3.8
C 5.4(Rb-Mc)
0.2

5.2 / 0.1 Rb-Mc

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 Rogers and Lee (1923, pl. 11), Thom and others (1935, pl. 14), and Tudor (1975, fig. 3) 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.

C 12.8(Rb-Mc)
1.7
NR 21.0
C 1.7(L)
0.2

COAL PROSPECT—Showing coal thickness, in feet.

Absoloka Mine
(Q, Rosebud, McKay, and Robinson)

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

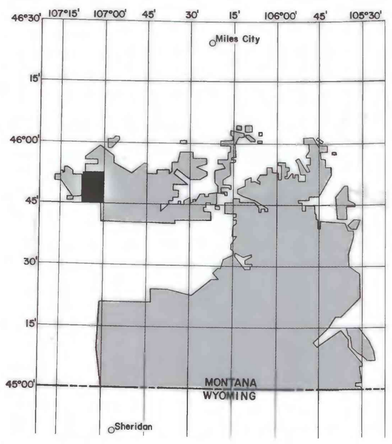
To convert feet to meters, multiply feet by 0.3048.

REFERENCES FOR NON-INDEXED DATA POINTS

Rogers, G. S., and Lee, W. T., 1923, Geology of the Tullock Creek coal field, Rosebud and Big Horn Counties, Montana: U.S. Geol. Survey Bull. 749, 181 p.

Thom, W. T., Jr., and others, 1935, Geology of Big Horn County and the Crow Indian Reservation, Montana: U.S. Geol. Survey Bull. 856, 200 p.

Tudor, M. S., 1975, Geologic exploration and development of coal in the Sarpy Creek area, Big Horn County, Montana, in Energy resources of Montana: Montana Geol. Soc. 22nd annual publication, p. 159-164.



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

COAL RESOURCE OCCURRENCE MAP OF THE WOLF SCHOOL QUADRANGLE, BIG HORN AND TREASURE COUNTIES, MONTANA

BY

COLORADO SCHOOL OF MINES RESEARCH INSTITUTE

1979

PLATE 1
COAL DATA MAP