

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.

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

COAL TEST HOLE—Showing index number of holes shown
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

Ck—Upper Cook
5—Number 5 bed
Pa—Pawnee
Ca—Cache
9a—Number 9a bed
9b—Number 9b bed
9c—Number 9c bed
J1—Number 11 bed
Br—Broadus
12a—Number 12a bed
12b—Number 12b bed
C—Contact
L—Local

COAL BED SYMBOLS AND NAMES

C 21 (l)
C 02 (l)
R 9.0
C 25 (12a)
C 06

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 design-
ate the name of the coal bed as listed above. Arrows point
toward coal-bearing area. Trace of coal outcrop has been
modified from Bryson and Bass (1973, pl. 1), Warren
(1959, pl. 19) and Matson and others (1968, p. 63) to fit
modern topographic map.

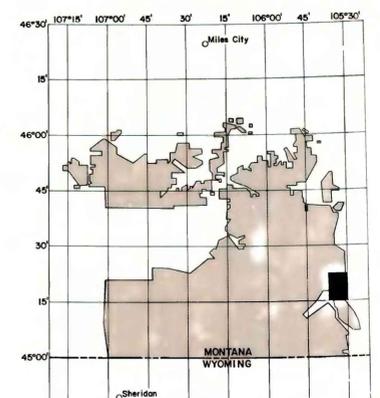
BURNED AND CLINKERED COAL BED—Showing
area of baked and fused rock (v symbol). Dotted line
indicates the inferred limit of burning.

FAULT—Dashed where approximately located. U, up-
thrown side; D, downthrown side.

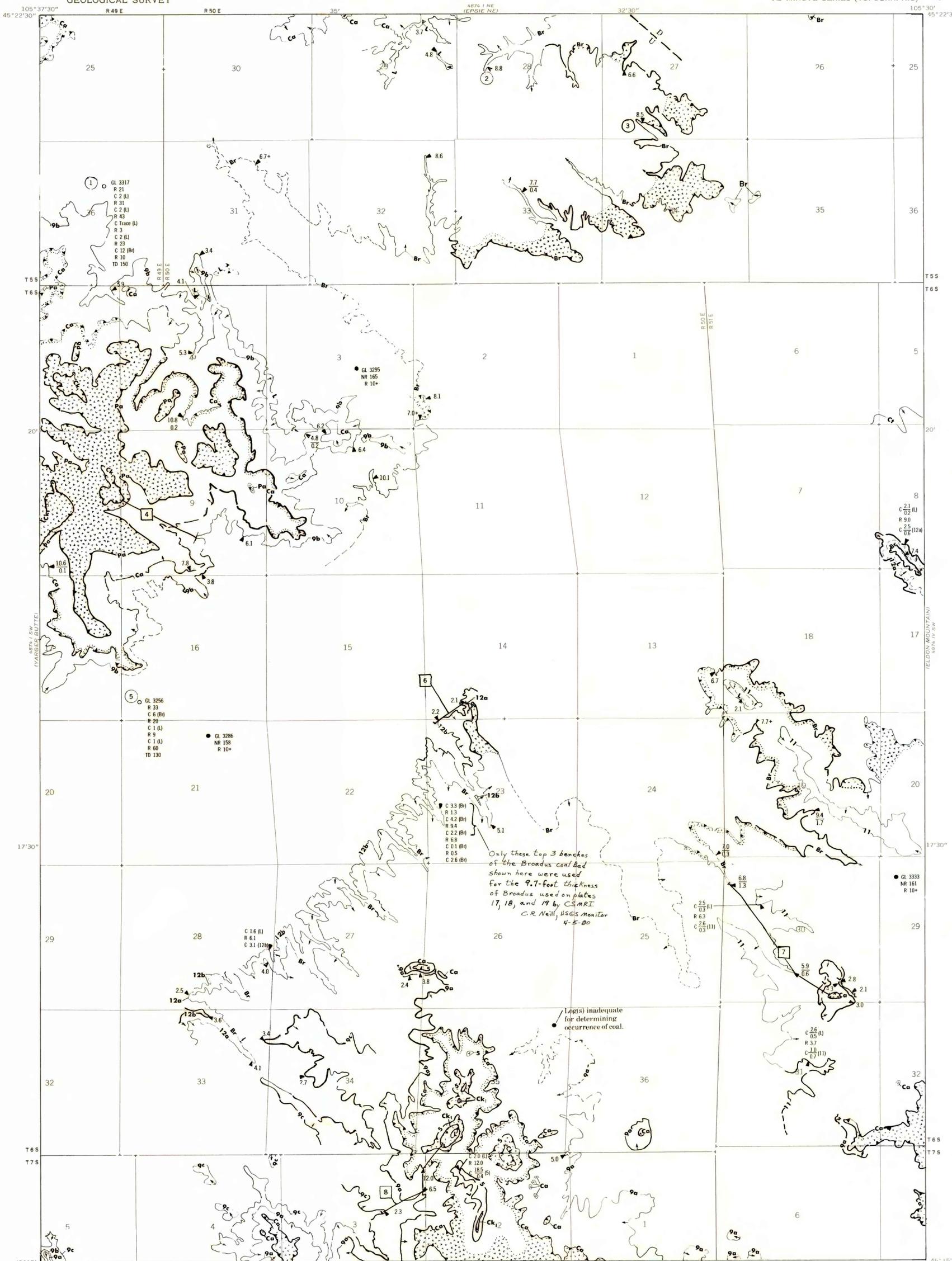
To convert feet to meters, multiply feet by 0.3048.

REFERENCES FOR NONINDEXED DATA POINTS

Bryson, R.P., and Bass, N.W., 1973, Geology of Moorehead coal
field, Powder River, Big Horn, and Rosebud Counties,
Montana: U. S. Geol. Survey Bull. 1338, 113 p.
Warren, W.C., 1959, Reconnaissance geology of the Birney-
Broadus coal field, Rosebud and Powder River Counties,
Montana: U. S. Geol. Survey Bull., 1072-J, p. 561-585.



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



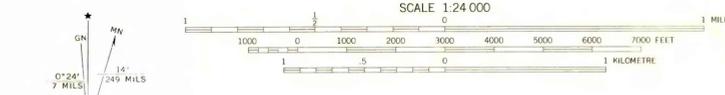
Only these top 3 benches
of the Broadus coal bed
shown here were used
for the 9.7-foot thickness
of Broadus used on plates
17, 18, and 19 by CS.M.R.I.
C.R. Neill, HSES Monitor
4-5-80

Logs inadequate
for determining
occurrence of coal.

Base map from U.S. Geological Survey, 1973

SCALE 1:24 000

Compiled in 1977



COAL RESOURCE OCCURRENCE MAP OF THE LONESOME PEAK QUADRANGLE,
POWDER RIVER COUNTY, MONTANA

BY
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE
1979