

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 index number of
hole shown on plate 3 of CRO map and drill-hole data.
in feet.

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

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

GL—Ground elevation
R—Rock interval
C—Coal interval
R?—Rock, occurrence of
coal undeterminable
TD—Total depth

DRILL-HOLE DATA SYMBOLS

COAL BED SYMBOLS AND NAMES

- L—Local
- An—Anderson
- An₁—Upper Anderson
- An₂—Middle Anderson
- An₃—Lower Anderson
- D—Dietz
- D₁—Upper Dietz
- D₂—Lower Dietz
- Cy—Canyon
- Ck₁—Upper Cook
- Ck₂—Lower Cook
- 5—Number 5 bed
- Pa—Pawnee (Dunning)
- Ca—Cache (Odell)
- F-G—Flowers-Goodale
- Br—Broadus

C 24 (I)
R 34
C 10 (I)
R 100
C 25 (An)

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 Bryson and Bass (1973, pl. 1), and Matson
and Blumer (1973, pls. 10A, 10B, and 10C) 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.

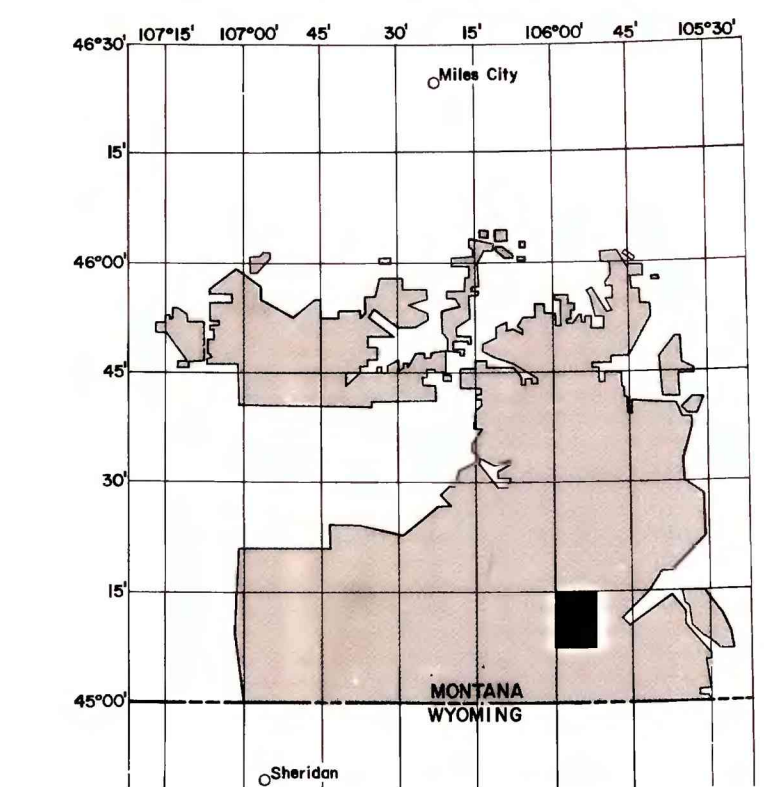
FAULT—Dashed where approximately located. U, up-
thrown side; D, downthrown side.

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

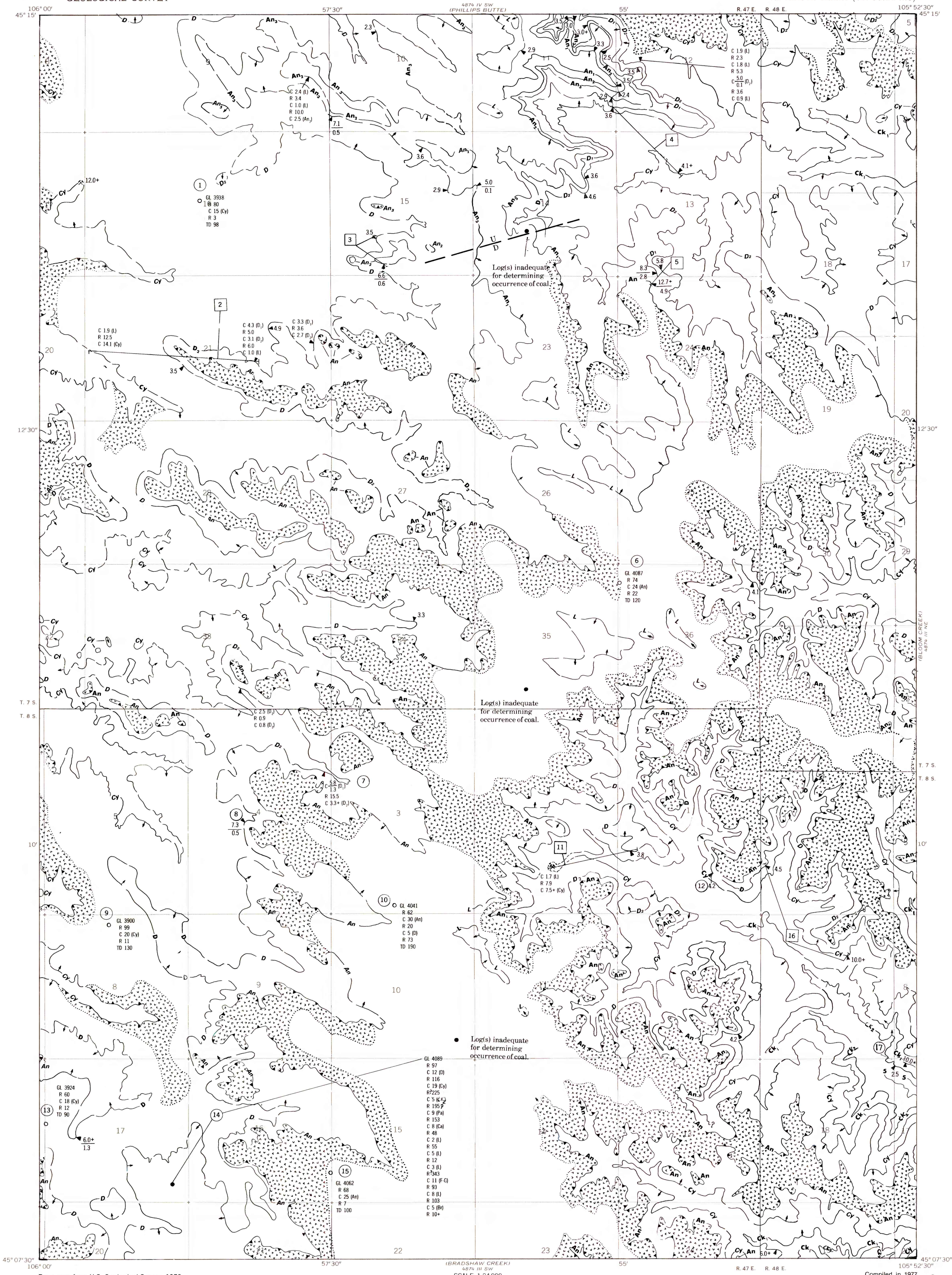
To convert feet to meters, multiply feet by 0.3048.

REFERENCES FOR NONINDEXED DATA POINTS

Bryson, R.P., and Bass, N.W., 1973, Geology of Moorhead coal
field, Powder River, Big Horn, and Rosebud Counties,
Montana: U. S. Geol. Survey Bull. 1338, 116 p.
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 Sayle quadrangle and
the Northern Powder River Basin Known Recoverable
Coal Resource Area (stippled), Montana.

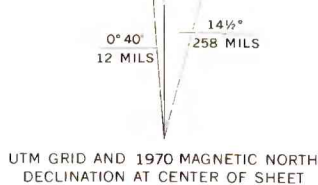
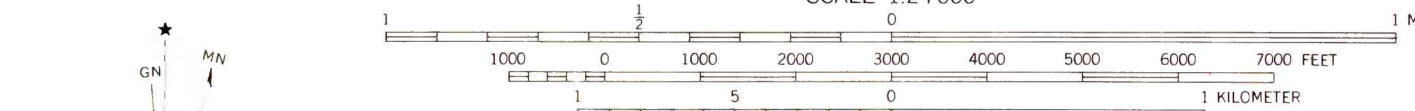


Base map from U.S. Geological Survey, 1970

(BRADSHAW CREEK)
4874 III SW

SCALE 1:24 000

Compiled in 1977



COAL RESOURCE OCCURRENCE MAP OF THE SAYLE QUADRANGLE,
POWDER RIVER COUNTY, MONTANA
BY
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE
1979