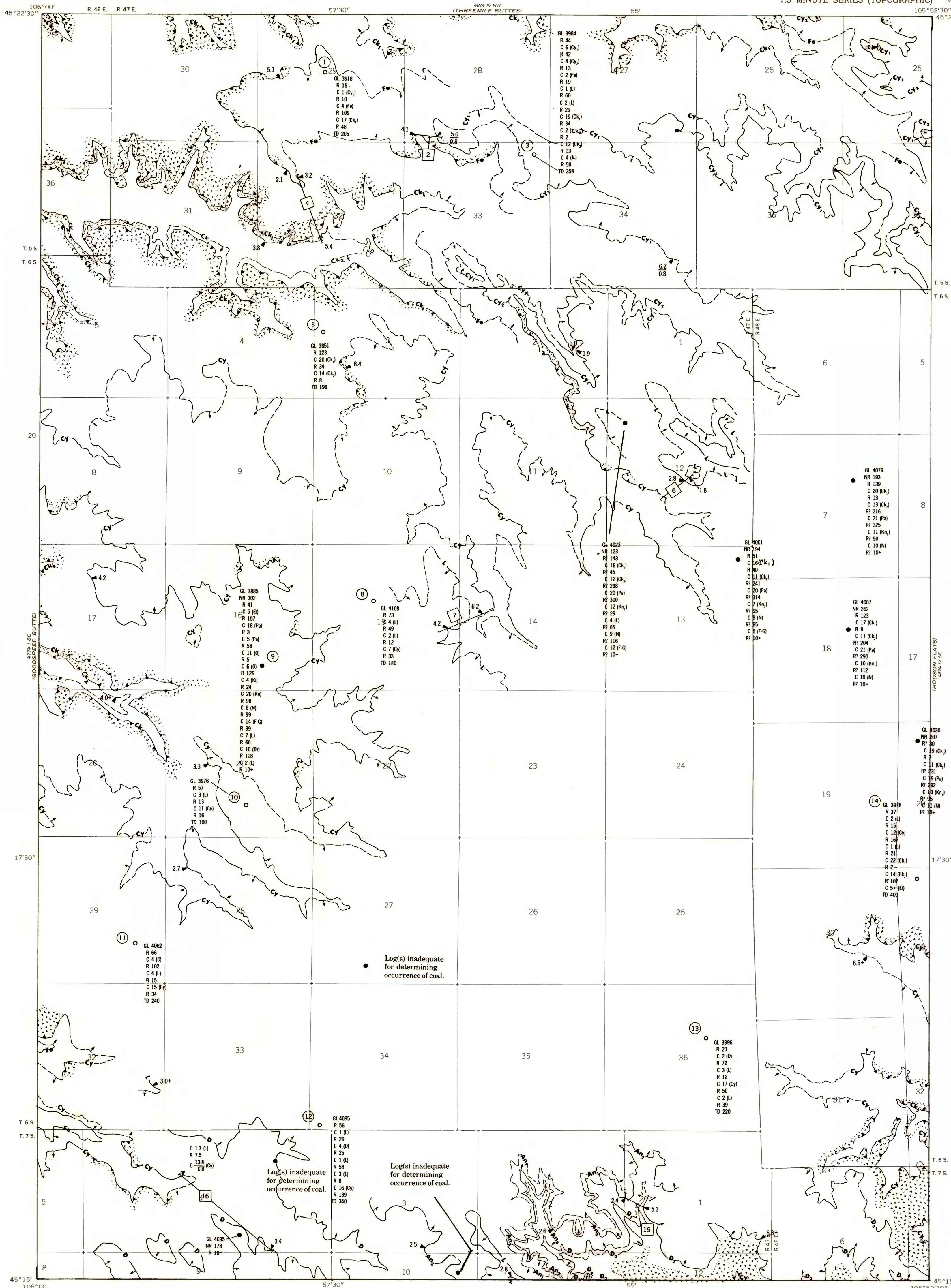


OPEN-FILE REPORT
This report has not been edited for conformity with
U.S. Geological Survey editorial standards or
stratigraphic nomenclature.



EXPLANATION

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.

9

GL 3885
NR 302
R 41
C 5 (E)
R 157
C 18 (Pa)
R 3
C 5 (Pa)

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

●

GL 4023
NR 123
R 143
C 16 (K₁)

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

8

GL 4108
R 73
C 4 (L)
R 49
C 2 (L)
R 12
C 7 (K₁)
R 32
TD 180

COAL TEST HOLE—Showing index number of hole 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
R^o—Rock occurrence of coal undeterminable
TD—Total depth

DRILL-HOLE DATA SYMBOLS

An₁—Upper Anderson
An₂—Middle Anderson
An₃—Lower Anderson
D—Dietz
D₁—Upper Dietz
D₂—Lower Dietz
L—Local
Cy—Canyon
Cy₁—Upper Canyon
Cy₂—Lower Canyon
F₁—Ferry
F₂—Upper Cook
F₃—Lower Cook
E—Elk
Pa—Pawnee
O—Odell
Kl—King
Kn₁—Upper Knobloch
N—Nance
F-G—Flowers-Goodale
Br—Broadus



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. Arrows point toward coal-bearing area. Trace of coal outcrop has been modified from Bryson and Bass (1973, pl. 1), Matson and Blumer (1973, pl. 19, 20, 21, 23 B, 24), and Warren (1959, pl. 19) 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.

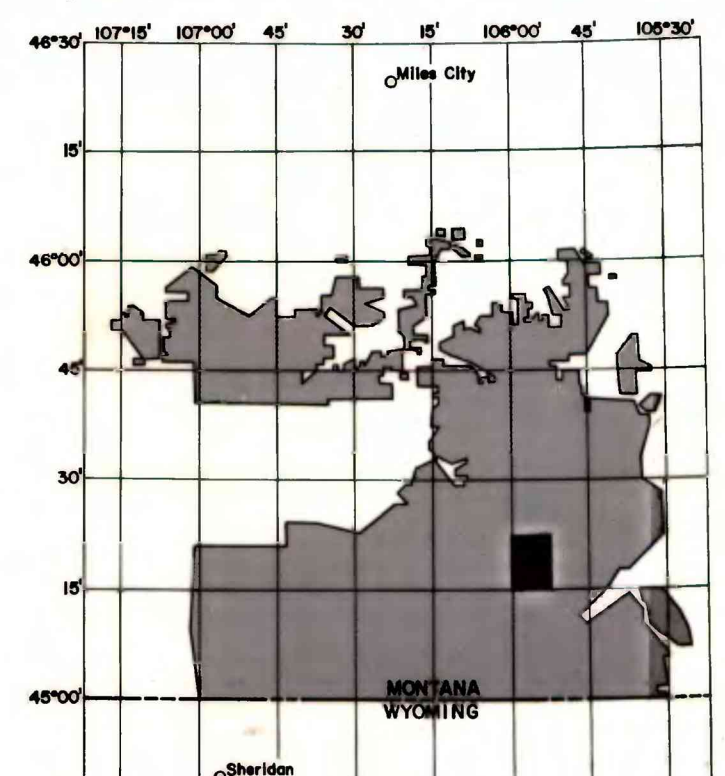
54

COAL MINE—Showing mine name and 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 the Moorhead coal field, Powder River, Big Horn, and Rosebud Counties, Montana: U.S. Geol. Survey Bull. 1388, 116 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 Phillips Butte quadrangle and the Northern Powder River Basin Known Recoverable Coal Resource Area (stippled), Montana.

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

