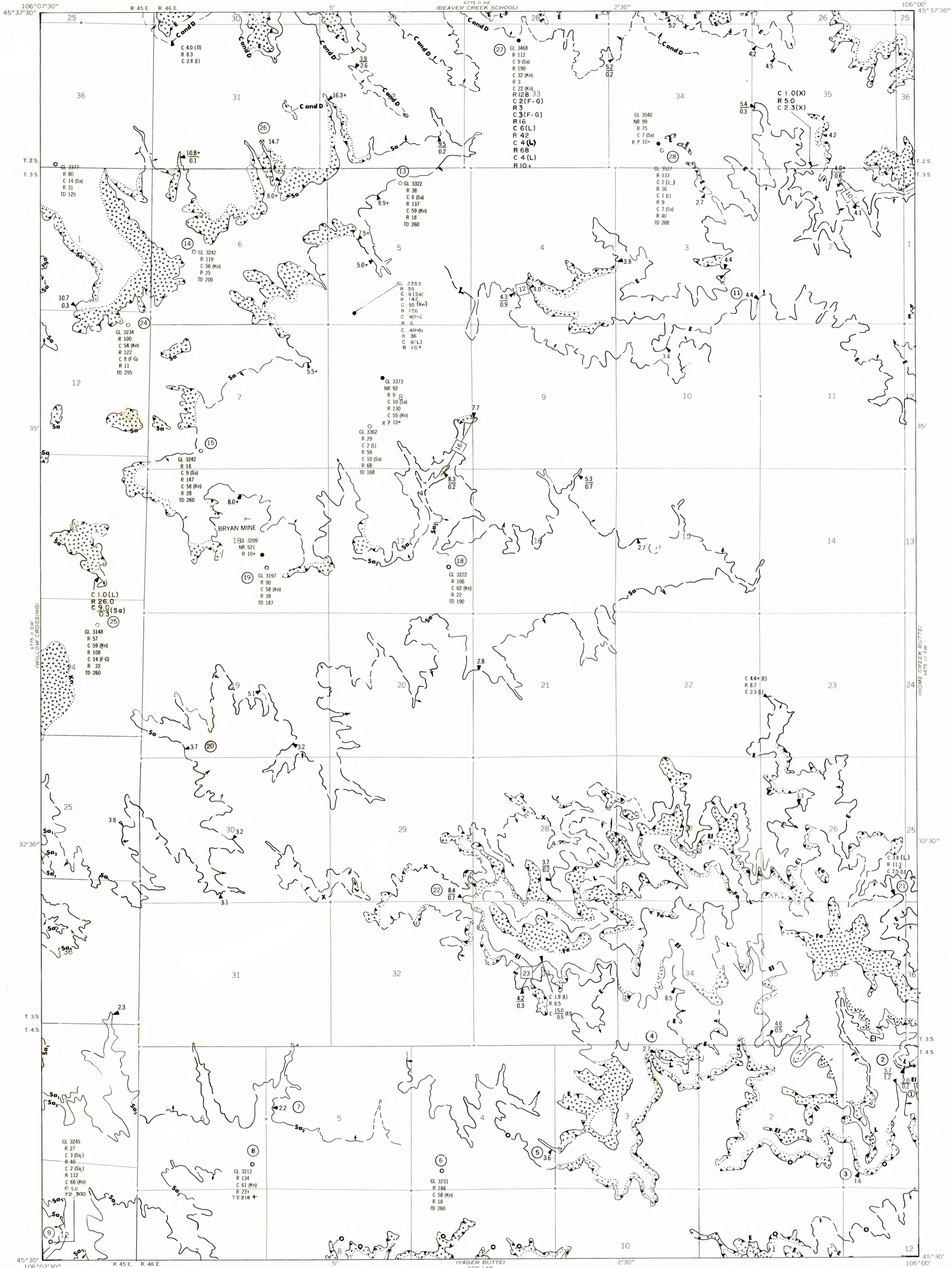


OPEN-FILE REPORT
This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature.



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 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
- R?—Rock occurrence of coal undeterminable
- TD—Total depth

DRILL-HOLE DATA SYMBOLS

- F—Ferry
- L—Local
- El—Elk
- E—E bed
- X—X bed
- C and D—C and D beds

- O—Oden
- Sa—Sawyer
- Sa₁—Upper Sawyer
- Sa₂—Lower Sawyer

- Kn—Knobloch
- F-G—Flowers-Goodale

COAL BED SYMBOLS AND NAMES

- C 1.0 (E)
- R 26.0
- C 9.0 (Sa)
- C 0.3 (Sa)

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 Bass, N.W. (1932, pl. 3); Matson and Blumer (1973, pl. 13B); Warren, W.C. (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.

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

COAL MINE—Showing mine name and adit location.

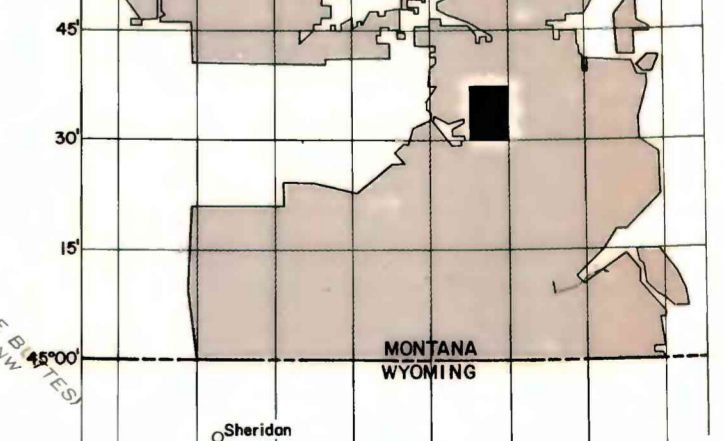
To convert feet to meters, multiply feet by 0.3048.

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.

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. [Original logs of drill holes were released as Montana Bureau of Mines and Geology open-file reports (and as an appendix to Bull. 91) which contain more complete information than is shown in their Bull. 91.]

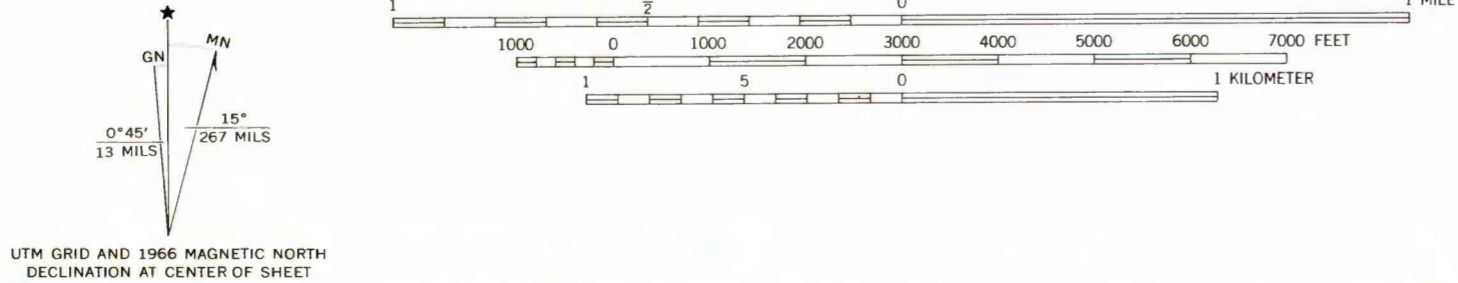
WARREN, W.C., 1959. Reconnaissance geology of the Birney-Broadus coal field, Rosebud and Powder River Counties, Montana: U.S. Geol. Survey Bull. 1072-J, p. 561-585.



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

Base map from U.S. Geological Survey, 1966

Compiled in 1977



COAL RESOURCE OCCURRENCE MAP OF THE COLEMAN DRAW QUADRANGLE,
POWDER RIVER COUNTY, MONTANA

BY
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE
1979