

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.

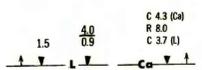
COAL TEST HOLE—Showing drill-hole data, in feet.

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

DRILL-HOLE DATA SYMBOLS

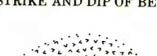
Pa—Pawnee
Ca—Cache
L—Local
Sa₁—Upper Sawyer
Sa₂—Lower Sawyer
Kn—Knobloch
Br—Broadus

COAL BED SYMBOLS AND NAMES

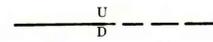


TRACE OF COAL BED OUTCROP—Dashed where approximately located; short dashed where inferred. Showing thickness of coal, or coal-rock intervals, in feet, measured at triangle. Where a thickness fraction is shown, it indicates the net coal thickness (upper number) and net partings thickness (lower number) above. Arrows point toward coal-bearing area. Trace of coal outcrop has been modified from Matson and others (1968, p. 53), Matson and Blumer (1973, pl. 17) and Warren (1959, pl. 19) to fit modern topographic map.

STRIKE AND DIP OF BED

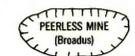


BURNED AND CLINKERED COAL BED—Showing area of baked and fused rock (v symbol). Dotted line indicates the inferred limit of burning.



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

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



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

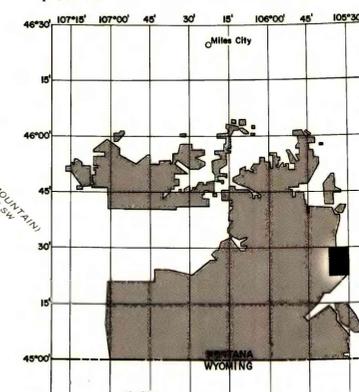
To convert feet to meters, multiply feet by 0.3048.

REFERENCES FOR NONINDEXED DATA POINTS

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.

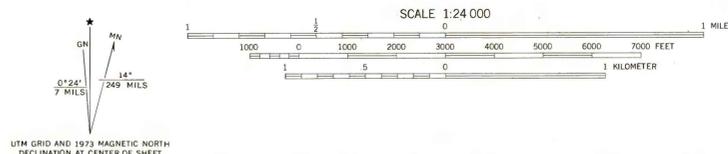
MATSON, R.E., DAHL, G.G., Jr., and BLUMER, J.W., 1968, Strippable coal deposits on state land, Powder River County, Montana: Mont. Bur. Mines and Geol. Bull. 69, 81 p.

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 Epsie NE quadrangle and the Northern Powder River Basin Known Recoverable Coal Resource Area (stippled), Montana.

Base map from U.S. Geological Survey, 1973



Compiled in 1977



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