

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.

- GL 3778  
NR 436  
R 86  
C 20 (R<sub>1</sub>)  
R 78  
C 4 (N)  
R 10\*

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

- GL 3673  
NR 223  
R 100  
C 7 (O)  
R 123

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

- GL 3692  
R 92  
C 15 (E)  
R 1  
C 2 (E)  
R 4  
C 1 (I)  
R 15  
C 12 (D)  
R 37  
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?—Rock, occurrence of coal undeterminable
- TD—Total depth

DRILL-HOLE DATA SYMBOLS

- Al—Alderson
- L—Local
- Ck<sub>1</sub>—Upper Cook
- Ck<sub>2</sub>—Lower Cook
- El—Elk
- Du—Dunning
- O—Odell
- Sa<sub>1</sub>—Upper Sawyer
- Sa<sub>2</sub>—Lower Sawyer
- L/Kn—Local above Knobloch
- Kn<sub>1</sub>—Upper Knobloch
- Kn<sub>2</sub>—Lower Knobloch
- N—Nance
- F-G—Flowers-Goodale
- Br—Broadus

COAL BED SYMBOLS AND NAMES



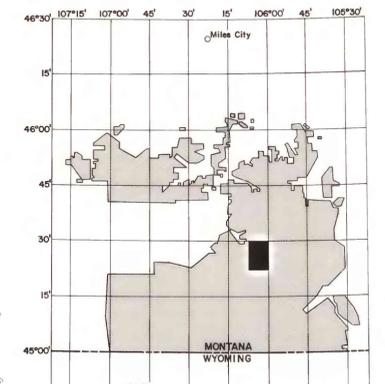
TRACE OF COAL BED OUTCROP—Dashed where approximately located; short dashed where inferred. Showing thickness of coal, in feet, measured at triangle. Where a thickness fraction is shown, it indicates the net coal thickness (upper number) and net partings thickness (lower number). Letters designate the name of the coal bed as listed above. Arrows point toward coal-bearing area. Trace of coal outcrop has been modified from Matson and Blumer (1973, pls. 12, 23A, 23B) 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.

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. [Original logs of drill holes were released as Montana Bureau of Mines and Geology open file reports (as an appendix to Bull. 91) which contain more complete information than is shown in 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 Yager Butte quadrangle and the Northern Powder River Basin Known Recoverable Coal Resource Area (stippled), Montana.



COAL RESOURCE OCCURRENCE MAP OF THE YAGER BUTTE QUADRANGLE,  
POWDER RIVER COUNTY, MONTANA

BY  
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