UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

KING MOUNTAIN QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)

OPEN FILE REPORT 79-092
PLATE 1 OF 42

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

EXPLANATION

(10) ▼ — INDEX NUMBER OF MEASURED SECTION SHOWN ON PLATE 3 OF CRO MAP—Coal section measured at point of triangle.

34 — 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.

(22) ● GL 3208 NR 196 R 4 C 45 (Kn) R 18 C 20 (Kn) R 55 — OIL AND GAS TEST HOLE—Showing index number of hole shown on plate 3 of CRO map and drill-hole data, in feet.

(4) ○ GL 3144 R 43 C 3 (L) R 102 C 74 (Kn) R 18 TD 240 — COAL TEST HOLE—Showing index number of hole shown on plate 3 of CRO map, and drill-hole data, in feet.

AL— Alluvium
GL— Ground elevation
NR— No record
Cl— Clinker
R— Rock interval
C— Coal interval
R?— Rock, occurrence of coal undeterminable
TD— Total depth

DRILL-HOLE DATA SYMBOLS

An—Anderson (Garfield of Warren)
D—Dietz
Cy—Canyon (Cook of Warren)
W—Wall
Pa—Pawnee
L—Local
Ca—Cache
D bed—D bed
C bed—C bed
Sa—Sawyer
Sa1—Upper Sawyer
Sa2—Lower Sawyer
L/Kn—Local above Knobloch
Kn—Knobloch
Kn1—Upper Knobloch
Kn2—Lower Knobloch
N—Nance
F-G—Flowers-Goodale
B—Broodus

COAL BED SYMBOLS AND NAMES

2.4+ — 4.8 / 1.2 — Cy — C 1.3 (L) R3.0 C 5.5 (Cy) — 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 Matson and Blumer (1973, pl. 12), McKay (1976, MF-817, Sheet 1) 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.

U / D — FAULT—Dashed where approximtately located. U, upthrown side; D, downthrown side.

SYNCLINE—Showing troughline, dashed where approximately located.

To convert feet to meters, multiply feet by 0.3048.

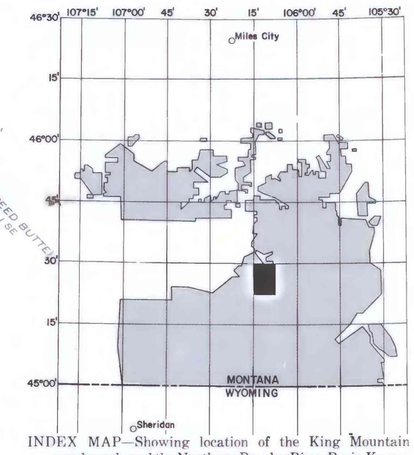
REFERENCES FOR NONINDEXED DATA POINTS

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.

Montana Bureau of Mines and Geology, 1977, Open File Report.

McKay, E.J., 1976, Preliminary geologic map and coal sections of the King Mountain quadrangle, Rosebud and Powder River Counties, Montana: U. S. Geol. Survey Misc. Field Studies Map MF-817.

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

COAL RESOURCE OCCURRENCE MAP OF THE KING MOUNTAIN QUADRANGLE, POWDER RIVER AND ROSEBUD COUNTIES, MONTANA

BY

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PLATE 1

COAL DATA MAP