UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HOME CREEK BUTTE QUADRANGLE
MONTANA—POWDER RIVER CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

OPEN FILE REPORT 79-091
PLATE 1 OF 41

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.

Log(s) inadequate for determining occurrence of coal.

OIL AND GAS TEST HOLE

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
TD— Total depth

DRILL-HOLE DATA SYMBOLS

Ga — Garfield
Cy — Canyon
Fe — Ferry
Ck_1 — Upper Cook
Ck_2 — Lower Cook
W — Wall
El — Elk
Pa — Pawnee (E bed of Bass, Dunning of Warren)
O — Odell
L — Local

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). 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 (1932, pl. 3), Matson and Blumer (1973, pl. 24, 26), 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.

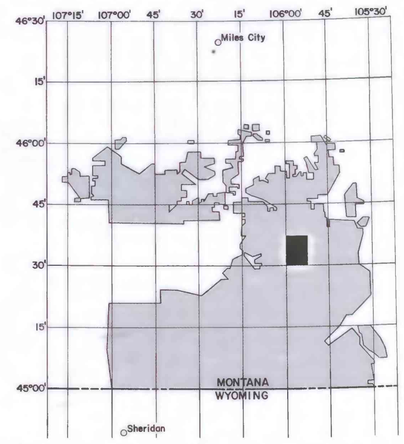
To convert feet to meters, multiply feet by 0.3048.

REFERENCES FOR NONINDEXED DATA POINTS

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.

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 Home Creek Butte quadrangle and the Northern Powder River Basin Known Recoverable Coal Resource Area (stippled), Montana.

PLATE 1
COAL DATA MAP

Base map from U.S. Geological Survey, 1966

Compiled in 1977

SCALE 1:24000

UTM GRID AND 1966 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

MONTANA
QUADRANGLE LOCATION

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

BY

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1979