UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

OPEN FILE REPORT 79-093
This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature.

PLATE 1 OF 16

EXPLANATION

● GL 3349
R 95
C 10 (Kn)
R 122
C 26 (Br)
R 10+

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

(11)
○ GL 3520
R 38
C 2 (M-W)
R 77
C 31 (Sa)
R 2
TD 150

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

Pa - Pawnee
St - Stump
L - Local
M-W—Mackin-Walker
Sa—Sawyer
Sa_1—Upper Sawyer
Sa_2—Lower Sawyer
Kn—Knobloch
Br—Broadus

COAL BED SYMBOLS AND NAMES

▼ 10.0+ Sa ▼ 2.7 St ▼ 3.4 / 0.3

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. Arrow points toward coal-bearing area. Trace of coal outcrop has been modified from Brown, and others (1954, pl. 25), Bryson (1952, pl. 1), Matson and Blumer, (1973, pl. 15), and Warren (1959, pl. 22) 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.

ANTICLINE—Showing crestline. Dashed where approximately located.

SMITH MINE ⚒ 28.0 / 0.4

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

To convert feet to meters, multiply feet by 0.3048.

REFERENCES FOR NONINDEXED DATA POINTS

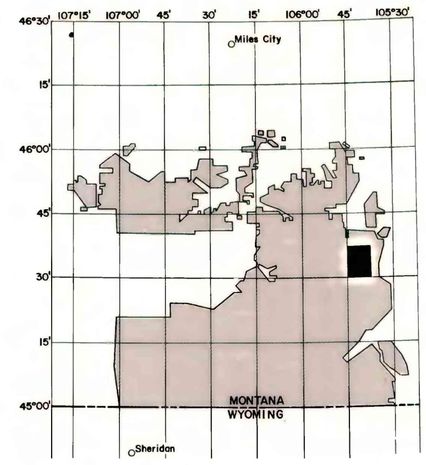
BROWN, A., and others, 1954, Strippable coal in Custer and Powder River Counties, Montana: U.S. Geol. Survey Bull. 995-E, p. 151-199.

BRYSON, R.P., 1952, The Coalwood coal field, Powder River County, Montana: U.S. Geol. Survey Bull. 973-B, p. 23-106.

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.

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 Leslie Creek 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

SCALE 1:24 000

UTM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

QUADRANGLE LOCATION

COAL RESOURCE OCCURRENCE MAP OF THE LESLIE CREEK QUADRANGLE, POWDER RIVER COUNTY, MONTANA
BY
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE
1979

PLATE 1
COAL DATA MAP