

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

NOTE: See plate 1B for drill hole data

EXPLANATION

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

● GL 4110  
NR 360  
R 96  
C 33 (An)  
R 3  
C 45 (D<sub>3</sub>)  
R 102  
C 16 (Cy)  
R 112

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

○ GL 4059  
R 27  
C 13 (Ro)  
R 170  
C 18 (Sm)  
R 201  
C 32 (An)  
R 3  
C 44 (D<sub>3</sub>)  
R 1  
TD 509

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  
RR—Red Rock (scoria or clinker)  
C—Coal interval  
TD—Total depth

DRILL-HOLE DATA SYMBOLS

Ro—Roland (Baker, 1929)  
L—Local  
Sm—Smith  
An—Anderson  
D<sub>2</sub>—Dietz 2  
D<sub>3</sub>—Dietz 3  
Cy—Canyon  
Ck—Cook  
W—Wall  
BA—Brewster-Arnold  
Ki—King  
Ke—Kendrick

COAL BED SYMBOLS AND NAMES

C 25 (Sm)  
R 05  
C 21 (Sm)  
R 47  
C 35+ (L)

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 Baker, A.A. (1929,  
pl. 28) and Matson, R.E., and Blumer, J.W. (1973, pl. 1  
and 4) 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, downthrown side.

× 10+  
COAL PROSPECT—Showing coal thickness, in feet.

△ 60  
COAL MINE—Showing thickness of coal bed, in feet.

To convert feet to meters, multiply feet by 0.3048.

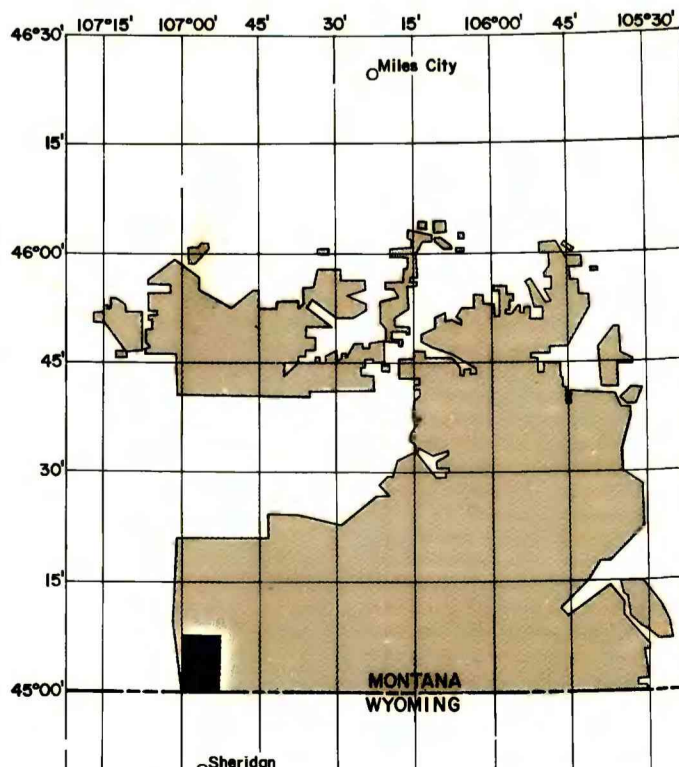
REFERENCES FOR NONINDEXED DATA POINTS  
BAKER, A.A., 1929, The northward extension of the  
Sheridan coal field, Big Horn and Rosebud Counties,  
Montana: U.S. Geol. Survey Bull. 806, Pt. 2, p. 15-67.

GALYARDT, G.L., and MURRAY, F.N., 1973, Geologic map and  
coal deposits of Pearl School quadrangle and eastern  
portion of Bar V Ranch quadrangle, Big Horn County,  
Montana: U.S. Geol. Survey. (Unpublished report.)

MATSON, R.E., and BLUMER, J.W., 1973, Quality and  
reserves of strippable coal, selected deposits, south-  
eastern Montana: Mont. Bur. Mines and Geol., Bull. 91,  
135 p.

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

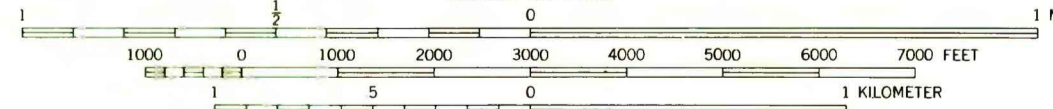
Peter Kiewit Sons' Co., written communication, 1977.



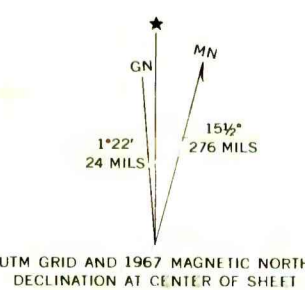
INDEX MAP—Showing location of the Pearl School  
quadrangle and the Northern Powder River Basin  
Known Recoverable Coal Resource Area (stippled),  
Montana.

Base map from U.S. Geological Survey, 1967

SCALE 1:24,000



CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL



COAL RESOURCE OCCURRENCE MAP OF THE PEARL SCHOOL  
QUADRANGLE, BIG HORN COUNTY, MONTANA  
BY  
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE  
1979