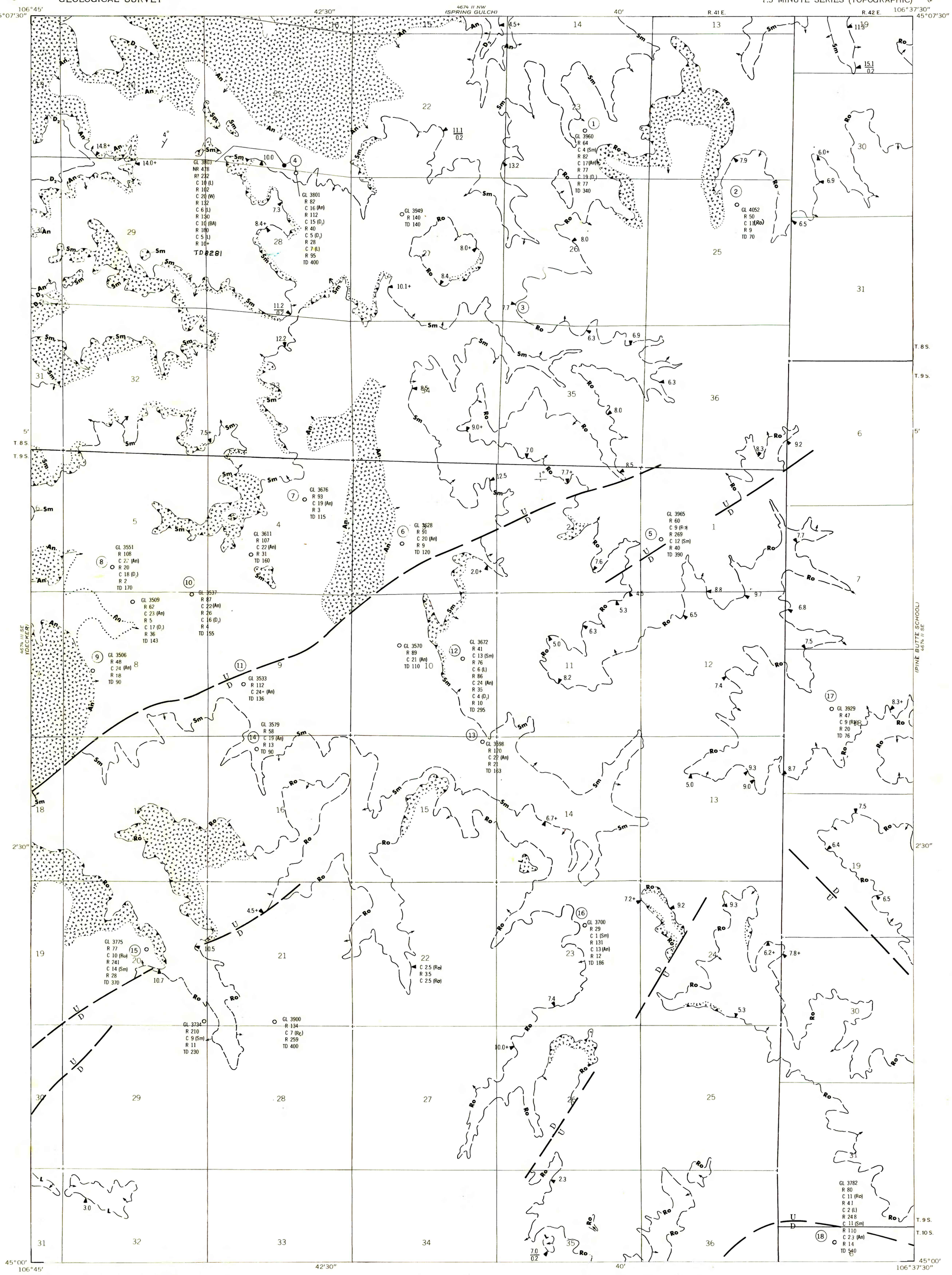
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HOLMES RANCH QUADRANGLE
MONTANA–BIG HORN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

OPEN FILE REPORT 79-649
PLATE 1 OF 37



Base map from U.S. Geological Survey, 1958

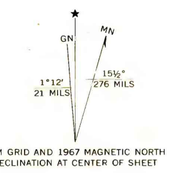
Compiled in 1977

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER



UTM GRID AND 1967 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

QUADRANGLE LOCATION

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.

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

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

Ro—Rolandsen & Baker (1929)
L—Local
Sm—Smith
An—Anderson (Dietz 1)
D_2—Dietz 2 (Same as Dietz 1 of Matson and Blumer, 1973)
D_3—Dietz 3 (Same as Dietz 2 of Matson and Blumer, 1973)
W—Wall
BA—Brewster-Arnold

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 Baker (1929, pl. 29) and Matson and Blumer (1973, pls. 2 and 3) 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 approximtately located. U, upthrown side; D, downthrown side.

To convert feet to meters, multiply feet by 0.3048.

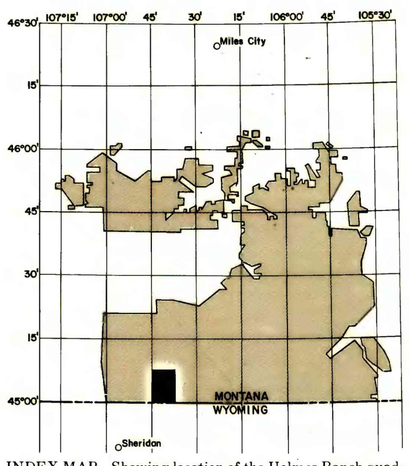
REFERENCES FOR NONINDEXED DATA POINTS

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.

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 (and as an appendix to Bull. 91) which contain more complete information than is shown in Bull. 91.]

Montana Bureau of Mines and Geology and U. S. Geological Survey, 1976, Preliminary report of coal drill-hole data and chemical analyses of coal beds in Campbell, Converse, and Sheridan Counties, Wyoming; and Big Horn, Richland, and Dawson Counties, Montana: U. S. Geol. Survey Open File Report 76-450, 382 p.

U. S. Bureau of Mines, 1969, Strippable coal reserves of Montana: U. S. Bur. Mines Preliminary Report 172, 68 p.



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

PLATE 1
COAL DATA MAP

COAL RESOURCE OCCURRENCE MAP OF THE HOLMES RANCH QUADRANGLE, BIG HORN COUNTY, MONTANA

BY

COLORADO SCHOOL OF MINES RESEARCH INSTITUTE

1979