

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.

14 ● GL 4332
R 8
C 12 (An)
R 82
C 28 (B₁)

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

● GL 3991
NR 270
R 10*

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

10 ○ GL 4456
R 86
C 11 (B₁)
R 2
TD 99

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
R²—Rock occurrence of
coal undeterminable
TD—Total depth

DRILL-HOLE DATA SYMBOLS

L—Local
Sm—Smith
An—Anderson (Dietz 1)
D₁—Dietz 2
D₂—Dietz 3
Cy—Canyon
W—Wall

COAL BED SYMBOLS AND NAMES

37 82 C 16 (L)
0.2 R 50
C 27 (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,
p. 28) and Matson, R.E. and Blumer, J.W. (1973, p. 5 A,
B,C) 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 approximately located. U, up-
thrown side; D, downthrown side.

75+
COAL PROSPECT—Showing coal thickness, in feet.

95+
HOLMES MINE
COAL MINE—Showing mine name and thickness of coal
bed, in feet.

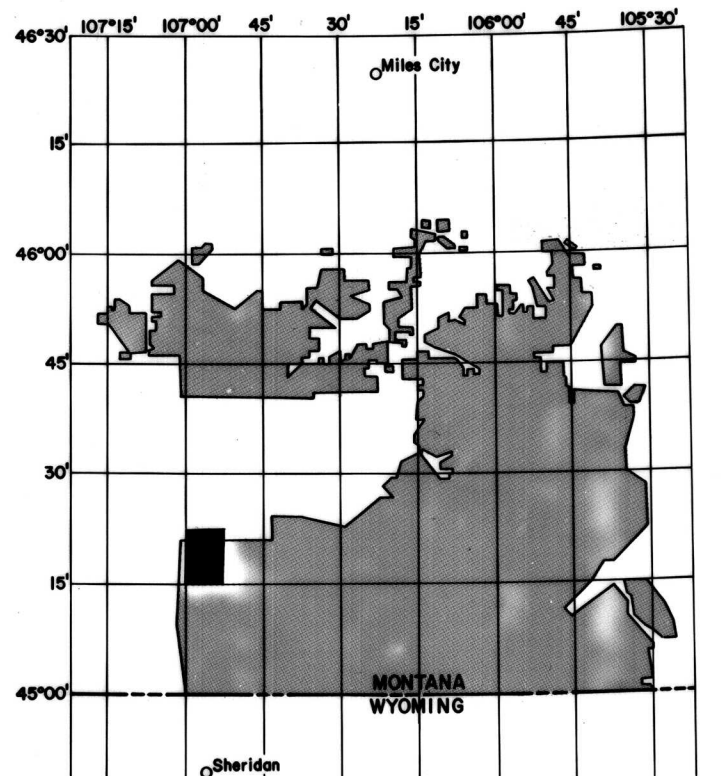
ADIT—Showing mine entrance.

To convert feet to meters, multiply feet by 0.3048.

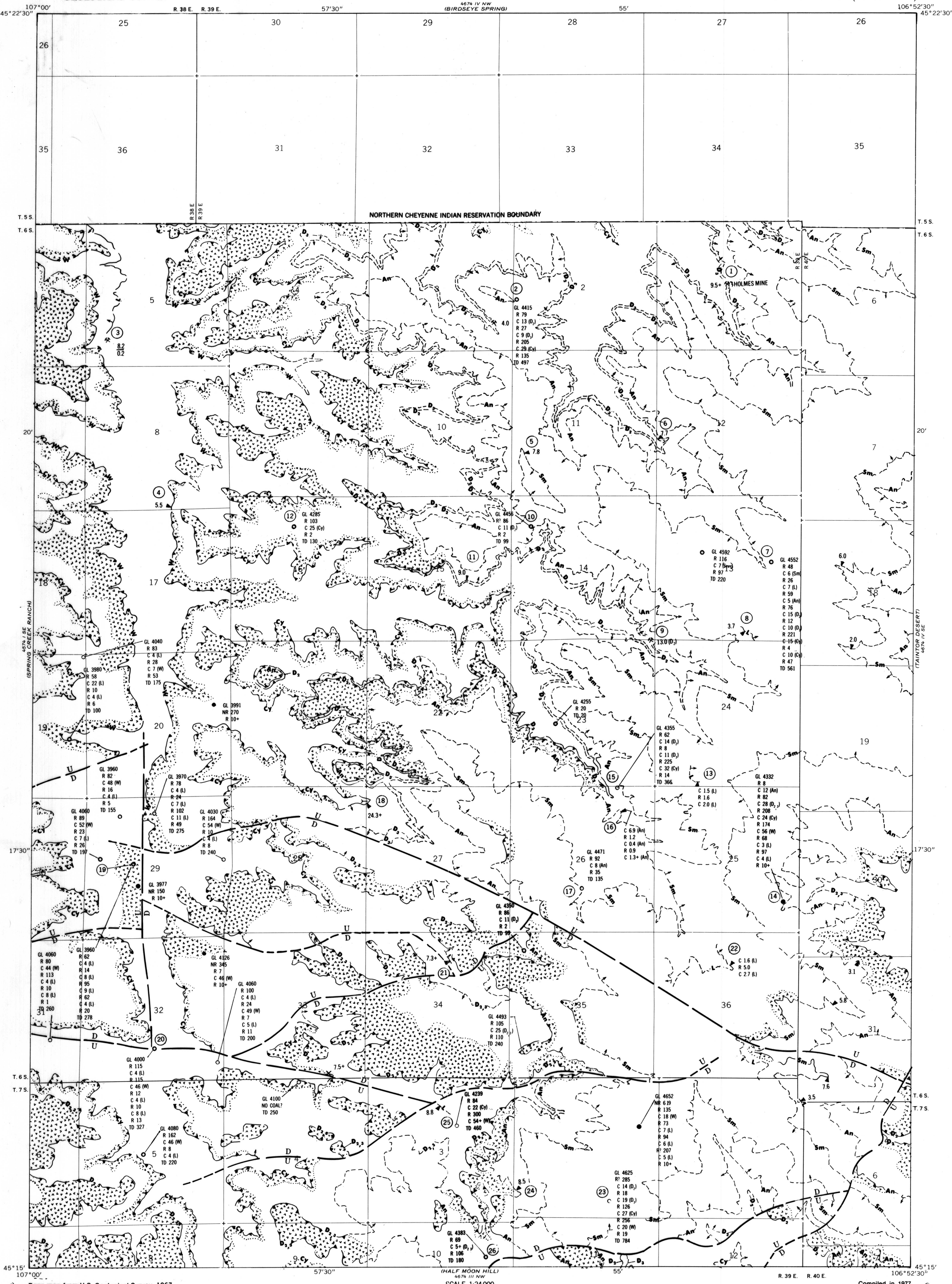
REFERENCES FOR NONINDEXED DATA POINTS

BAKER, A.A., 1929, The northward extension of the
Sheridan coal field, Big Horn and Rosebud Counties,
Montana: U.S. Geol. Survey Bull. 806-B, p. 15-67.

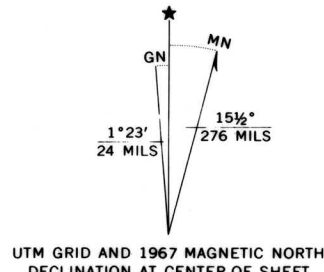
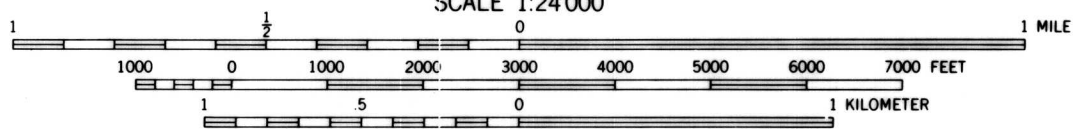
MATSON, R.E., and BLUMER, J.W., 1973, Quality and
reserves of strippable coal, selected deposits, south-
eastern Montana: Mont. Bur. Mines and Geol. Bull. 91,
135 p.



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



Base map from U.S. Geological Survey, 1967



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