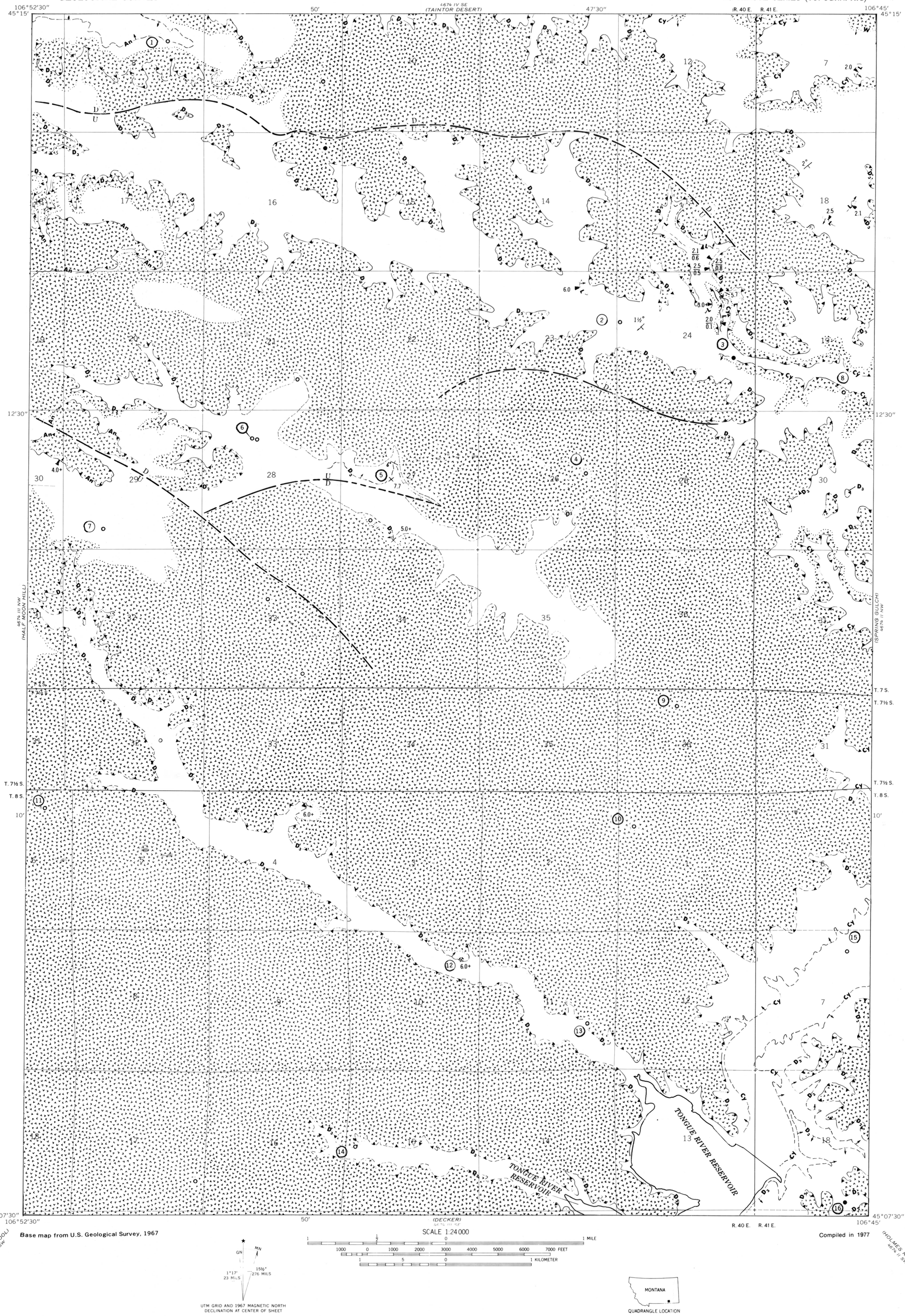
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TONGUE RIVER DAM QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)



Base map from U.S. Geological Survey, 1967

Compiled in 1977

SCALE 1:24000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

UTM GRID AND 1967 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

QUADRANGLE LOCATION

COAL RESOURCE OCCURRENCE MAP OF THE TONGUE RIVER DAM QUADRANGLE, BIG HORN AND ROSEBUD COUNTIES, MONTANA

BY

COLORADO SCHOOL OF MINES RESEARCH INSTITUTE

1979

OPEN FILE REPORT 79-780
PLATE 1A OF 29
SHEET 1 OF 2

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

SEE PLATE 1B FOR DRILL HOLE DATA.

EXPLANATION

(12) ⚒

INDEX NUMBER OF MEASURED SECTION SHOWN ON PLATE 3 OF CRO MAP—Coal section measured at coal mine.

(3) ● GL 3572
Cr 2
R 111
C 3(Ck)
R 76

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

● GL 4115
NR 222
R 52
C 10(Cy)
R? 269

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

(2) ○ GL 3655
R 30
C 2 (L)
R 21
C 16 (Cy)
R 49
C 6 (L)
R 56
C 4 (Ck)
R 43
TD 227

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

GL— Ground elevation
Al— Alluvium
NR— No record
Cl— Clinker
R— Rock interval
C— Coal interval
R?— Rock, occurrence of coal undeterminable
TD— Total depth

DRILL-HOLE DATA SYMBOLS

An—Anderson (Dietz 1)
L—Local
D_2—Dietz 2
D_3—Dietz 3
Cy—Canyon
Ck—Cook
W—Wall
BA—Brewster-Arnold
Ki—King

COAL BED SYMBOLS AND NAMES

3.0+ L 2.5/0.8

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. Arrows point toward coal-bearing area. Trace of coal outcrop has been modified from Baker (1929, pls. 28 and 29) and Matson and Blumer (1973, pls. 1, 5A and 5B) to fit modern topographic map.

⊥ 2°

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.

U / D

FAULT—Dashed where approximtately located. U, upthrown side; D, downthrown side.

× 7.7

COAL PROSPECT—Showing coal thickness, in feet.

⚒ 6.0+

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

To convert feet to meters, multiply feet by 0.3048.

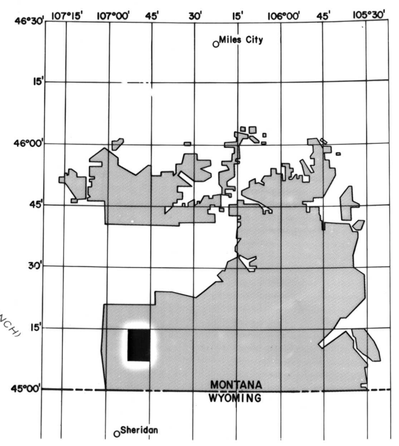
REFERENCES FOR NONINDEXED DATA POINTS

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.

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, 1977, Open File Report.

U. S. Geological Survey and Montana Bureau of Mines and Geology Open File Report 76-450, 1976.



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

PLATE 1A

COAL DATA MAP