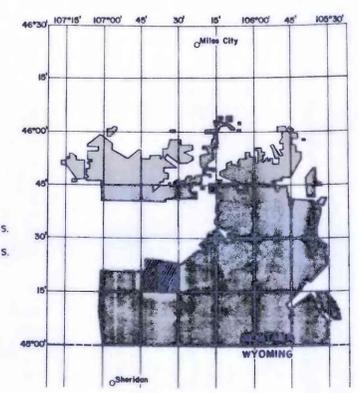


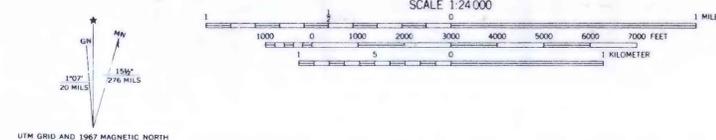
OPEN-FILE REPORT
This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature.
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PLATE 1 OF 44

- EXPLANATION**
- 5 GL 3191
R 52
C 17(K)
R 141
C 5(N)
R 74
TD 329
 - 9 GL 3289
R 112
C 3(K)
R 67
C 17(K)
R 125
C 6(N)
R 113
C 21(F)
R 142
C 4(T)
R 10+
- COAL TEST HOLE**—Showing index number of hole on plate 3 of CRO map and drill-hole data, in feet.
- OIL AND GAS TEST HOLE**—Showing index number of hole on plate 3 of CRO map and drill-hole data, in feet.
- GL —Ground level elevation
NR —No record
R —Rock interval
C —Coal interval
TD —Total depth
- DRILL-HOLE DATA SYMBOLS**
- AD —Anderson and Dietz, combined
 - Cy —Canyon
 - W —Wall
 - LW —Local below Wall
 - P —Pawnee
 - BA —Erowater-Arnold
 - Kg —King
 - K —Knobloch
 - N —Nance
 - FG —Flowers-Goodale
 - T —Terret
 - L —Local
- COAL BED SYMBOLS AND NAMES**
- 17
- LINE OF MEASURED SECTION**—Showing index number of section on plate 3 of CRO map.
- 74
- TRACE OF COAL BED OUTCROP**—Dashed where projected beneath younger, surficial deposits. Showing thickness of coal in feet, measured at triangle. Letters designate the name of the coal bed as listed above. Arrow points toward coal-bearing area. Plus (+) sign after number indicates measurement is incomplete.
- CLINKER**—Showing rock that is baked and fused by the heat from burning of a coal bed (v symbol). Solid line is the base of the clinker. Dotted line is the inferred limit of burning.
- ABANDONED MINE OR PROSPECT**
- To convert feet to meters, multiply feet by 0.3.



Map showing location of the Birney quadrangle, Montana and the Northern Powder River Basin Known Recoverable Coal Resource Area (shaded)

Base from U.S. Geological Survey, 1967



**COAL RESOURCE OCCURRENCE AND COAL DEVELOPMENT POTENTIAL MAPS
OF THE BIRNEY QUADRANGLE, ROSEBUD COUNTY, MONTANA**
BY
W. J. MAPEL AND B. K. MARTIN
1978