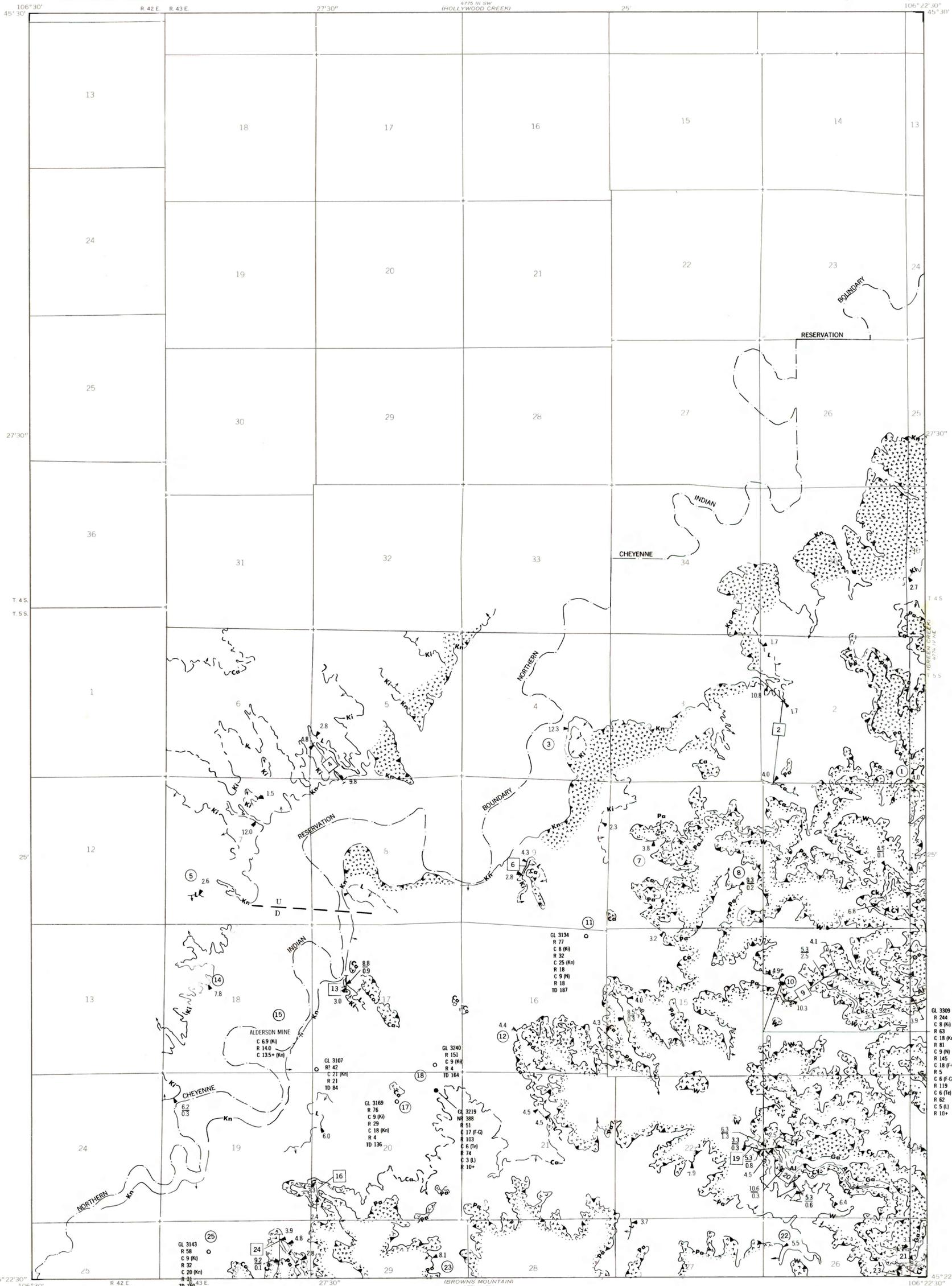


This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature.



EXPLANATION

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

LINE OF COMPOSITE SECTION—Showing index number of section shown on plate 3 of CRO map. Composite section is based on nearby coal bed thickness measurements.

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

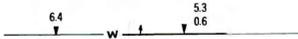
COAL TEST HOLE—Showing index number of holes shown on plate 3 of CRO map, and drill-hole data, in feet.

- GL—Ground elevation
- NR—No record
- R—Rock interval
- C—Coal interval
- R^o—Rock occurrence of coal undeterminable
- TD—Total depth

DRILL-HOLE DATA SYMBOLS

- Ga—Garfield
- Al—Alderson
- Cy—Canyon
- L—Local
- Clc—Lower Cook
- W—Wall
- Pa—Pawnee
- Ca—Cache (Odell)
- Ki—King
- Kn—Knobloch
- N—Nance
- F-G—Flowers-Goodale
- Te—Terret

COAL BED SYMBOLS AND NAMES



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. Arrow points toward coal-bearing area. Trace of coal outcrop has been modified from Matson, R.E. and Blumer, J.W. (1973, p. 11A) and Warren, W.C. (1959, pl. 19) 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.

FAULT—Dashed where approximately located. U, up-thrown side; D, downthrown side.

ALDERSON MINE
C 69 (K)
R 140
C 135+ (K)

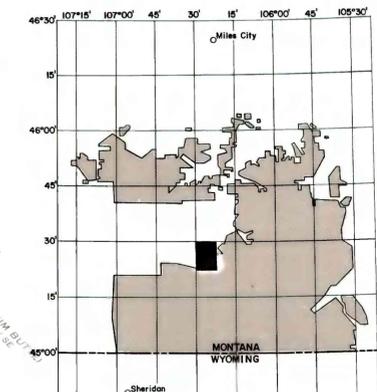
COAL MINE—Showing mine name and thickness of coal-rock intervals in feet.

To convert feet to meters, multiply feet by 0.3048.

REFERENCES FOR NONINDEXED DATA POINTS

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, 136 p.

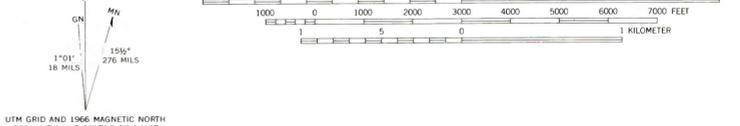
WARREN, W.C., 1959. Reconnaissance geology of the Birney-Broadus coal field, Rosebud and Powder River Counties, Montana. U.S. Geol. Survey Bull. 1072-J, p. 561-585.



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

Base map from U.S. Geological Survey, 1966

Compiled in 1977



COAL RESOURCE OCCURRENCE MAP OF THE BIRNEY DAY SCHOOL QUADRANGLE, ROSEBUD COUNTY, MONTANA

BY
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE
1979