

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

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.

OIL AND GAS TEST HOLE—Showing 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<sup>1</sup>—Rock, occurrence of  
coal undeterminable  
TD—Total depth

DRILL-HOLE DATA SYMBOLS

GA—Garfield  
L—Local  
CY—Canyon  
CY<sub>1</sub>—Upper Canyon  
CY<sub>2</sub>—Lower Canyon  
FE—Ferry  
CK<sub>1</sub>—Upper Cook  
CK<sub>2</sub>—Lower Cook  
W—Wall  
EI—Elk  
DU—Dunning (Pawnee)  
O—Odell  
SA<sub>1</sub>—Upper Sawyer  
SA<sub>2</sub>—Lower Sawyer  
KN<sub>1</sub>—Upper Knobloch  
KN<sub>2</sub>—Lower Knobloch

COAL BED SYMBOLS AND NAMES

86 W 34 C 27 (B)  
08 R 42  
08 C 26 (W)

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 designa-  
te the name of the coal bed as listed above. Arrows point  
toward coal-bearing area. Trace of coal outcrop has been  
modified from Matson and Blumer (1973, pls. 23A, 23B,  
24) and Warren (1959, pl. 19) to fit modern topographic  
map.

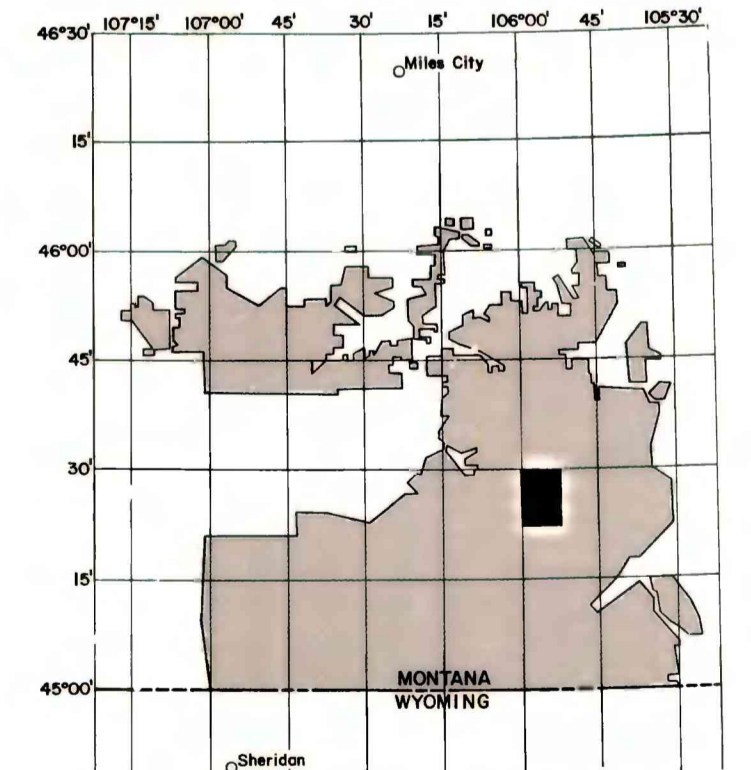
BURNED AND CLINKERED COAL BED—Showing  
area of baked and fused rock (v symbol). Dotted line  
indicates the inferred limit of burning.

98 ✱ STERLING MINE  
COAL MINE—Showing mine name and thickness of coal  
bed, in feet.

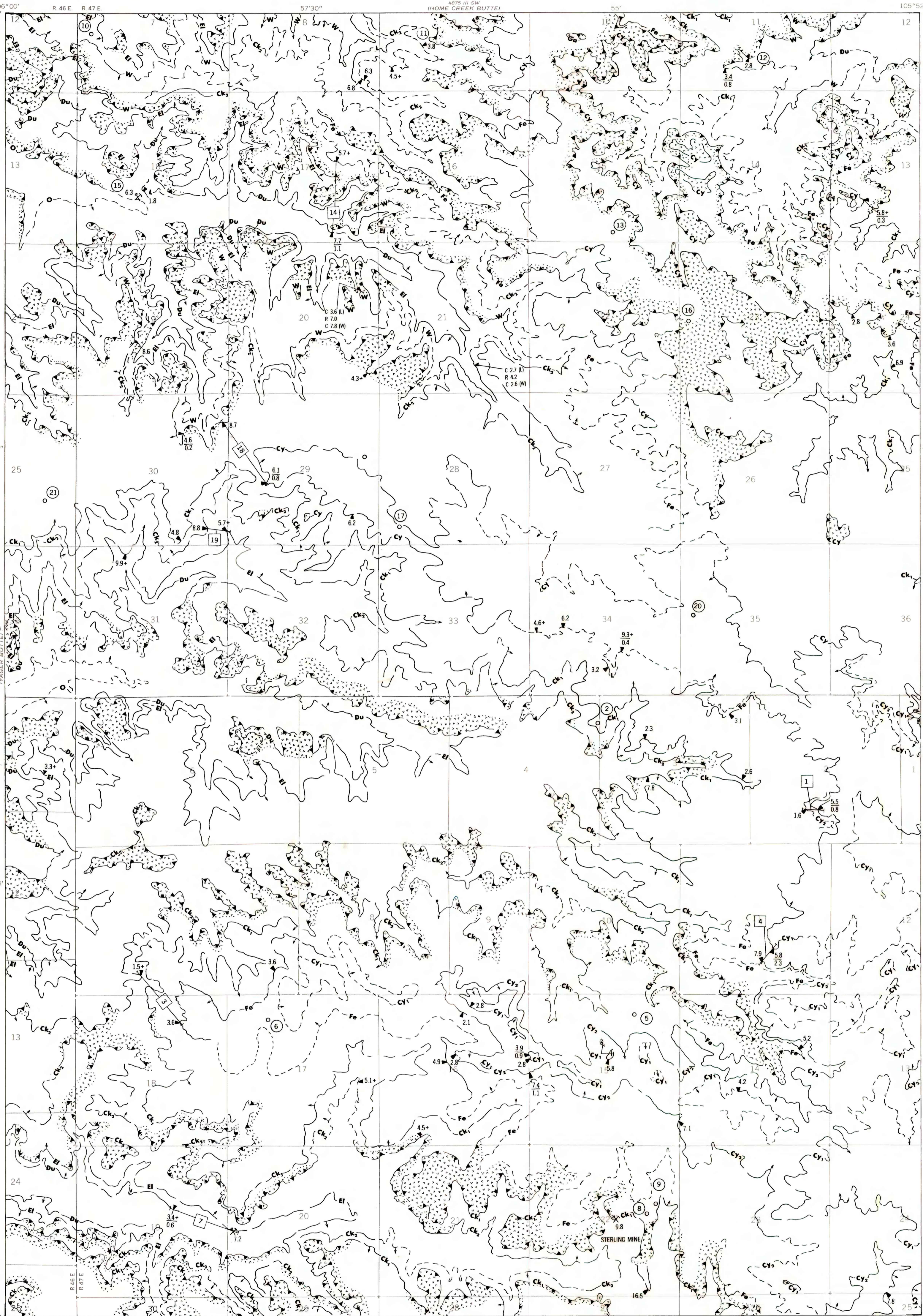
To convert feet to meters, multiply feet by 0.3048.

REFERENCES FOR NONINDEXED DATA POINTS

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.



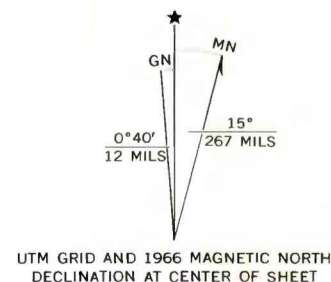
INDEX MAP—Showing location of the Threemile Buttes  
quadrangle and the Northern Powder River Basin Known  
Recoverable Coal Resource Area (stippled), Montana



Base map from U.S. Geological Survey, 1966

SCALE 1:24 000

Compiled in 1977



COAL RESOURCE OCCURRENCE MAP OF THE THREEMILE BUTTES QUADRANGLE,  
POWDER RIVER COUNTY, MONTANA  
BY  
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE  
1979