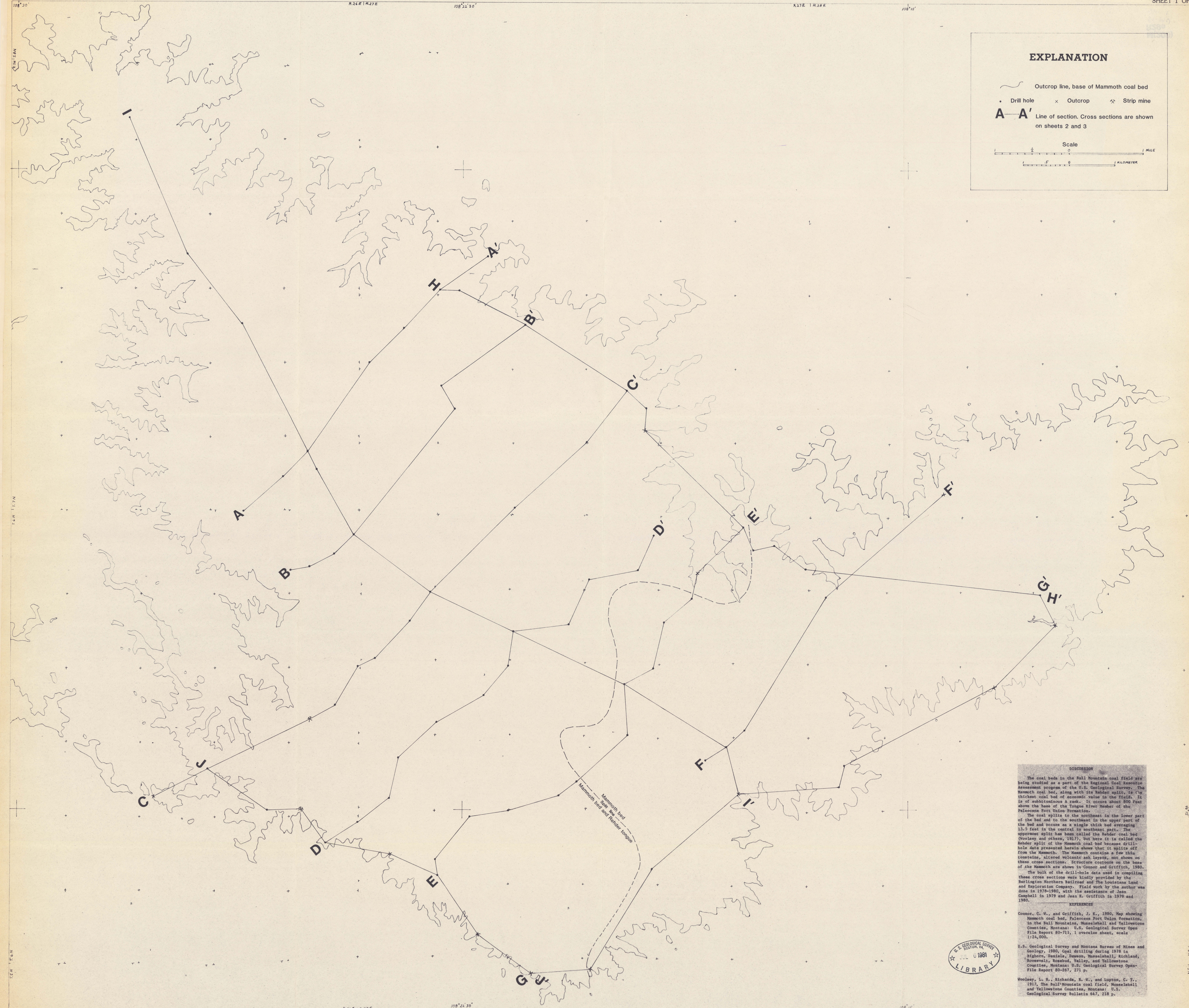


EXPLANATION

— Outcrop line, base of Mammoth coal bed
• Drill hole × Outcrop ✕ Strip mine
A—A' Line of section. Cross sections are shown on sheets 2 and 3

Scale
1 MILE
1 KILOMETER



DISCUSSION

The coal beds in the Bull Mountain coal field are being studied as a part of the Regional Coal Resource Assessment program of the U.S. Geological Survey. The Mammoth coal bed, along with its Rehder split, is the thickest coal bed of economic value in the field. It is of subbituminous A rank. It occurs about 800 feet above the base of the Tongue River Member of the Paleocene Fort Union Formation.

The coal splits to the southeast in the lower part of the bed and to the southwest in the upper part of the bed and occurs as a single thick bed averaging 13.5 feet in the central to southeast part. The uppermost split has been called the Rehder coal bed (Woolsey and others, 1917), but here it is called the Rehder split of the Mammoth coal bed because drill-hole data presented herein shows that it splits off from the Mammoth. The Mammoth contains a few thin coals, altered volcanic ash layers, not shown on these cross sections. Structure contours on the base of the Mammoth are shown in Connor and Griffith, 1980.

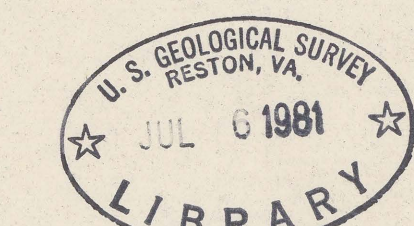
The bulk of the drill-hole data used in compiling these cross sections were kindly provided by the Burlington Northern Railroad and the Louisiana Land and Exploration Company. Field work by the author was done in 1978-1980, with the assistance of Jean Campbell in 1979 and Jean K. Griffith in 1979 and 1980.

REFERENCES

Connor, C. W., and Griffith, J. K., 1980, Map showing Mammoth coal bed, Paleocene Fort Union Formation, in the Bull Mountains, Musselshell and Yellowstone Counties, Montana: U.S. Geological Survey Open File Report 80-711, 1 overleaf sheet, scale 1:24,000.

U.S. Geological Survey and Montana Bureau of Mines and Geology, 1980, Coal drilling during 1978 in Big Horn, Daniels, Dawson, Musselshell, Richland, Rosebud, Rosebud, Valley, and Yellowstone Counties, Montana: U.S. Geological Survey Open-File Report 80-267, 271 p.

Woolsey, L. R., Richards, R. W., and Lupton, C. T., 1917, The Bull Mountain coal field, Musselshell and Yellowstone Counties, Montana: U.S. Geological Survey Bulletin 647, 218 p.



CROSS SECTIONS, MAMMOTH COAL BED AND REHDER SPLIT OF MAMMOTH COAL BED, BULL MOUNTAIN COAL FIELD, MONTANA

By
Carol Waite Connor
1981

M(200)
R290
91-170
SH 1
C1