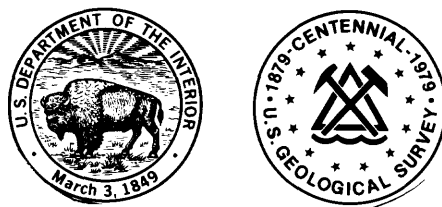


UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



RECONNAISSANCE DRILL HOLE IN THE YAMPA COAL FIELD,  
ROUTT COUNTY, COLORADO, 1979

By

Richard J. Bronson

Open-File Report 79-1593

1979

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

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## CONVERSION TABLE

To convert ENGLISH UNITS	Multiply by	To obtain METRIC UNITS
Feet	0.3048	Meters
Miles	1.609	Kilometers

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INTRODUCTION

As part of an ongoing drilling program, the U.S. Geological Survey drilled a hole in the vicinity of Milner, Colo., in July 1979. The hole is located in the Yampa coal field and was drilled primarily to help evaluate coal reserves on short-term coal lease application C-27962 of Energy Fuels Corp. The lease area is 14 miles southwest of Steamboat Springs in the Cow Creek 7½-minute quadrangle (fig. 1).

The hole was drilled to a depth of 270 feet before caving problems stopped drilling progress. A suite of six geophysical logs were run: natural gamma, neutron, gamma-gamma density, spontaneous potential, single-point resistance, and caliper (figs. 2, 3, and 4).

Fifty feet of Quaternary colluvium and pediment gravel were penetrated. Underlying this is 220 feet of Upper Cretaceous Williams Fork Formation of the Mesaverde Group. In this area, the Williams Fork consists of about 1,200 feet of interbedded sand and siltstone. Only the lower nonmarine portion, approximately 400 feet thick, was encountered in this hole.

Three coal seams were penetrated in the hole. These are, in ascending order, the Wolf Creek, Wadge, and Lennox beds, and are known collectively as the middle coal group.

A second drill hole was started, but it was abandoned at a depth of 15 feet owing to the continual caving of the hole in water-bearing gravel zones.

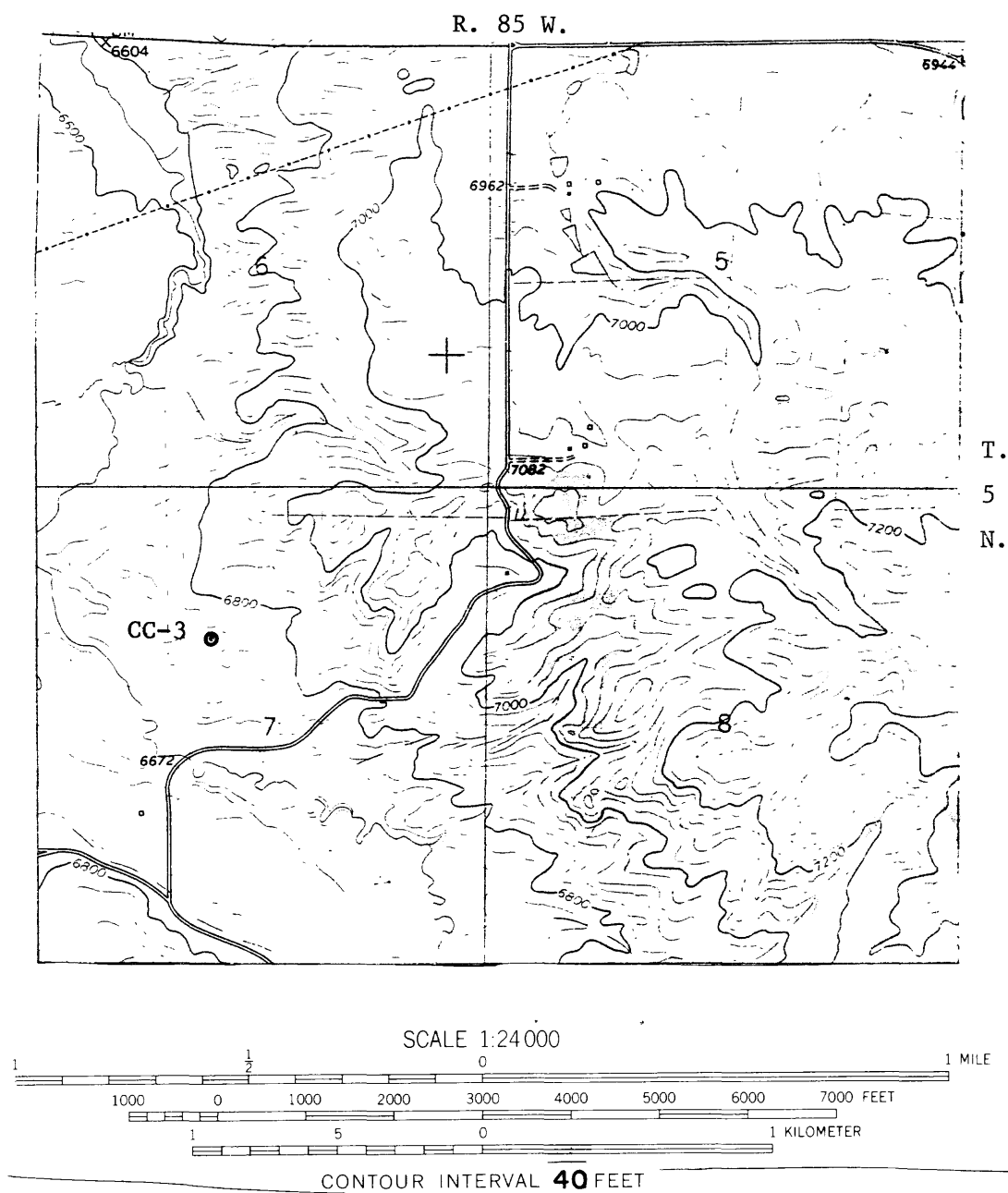


Figure 1.--Location of drill hole in the Cow Creek quadrangle, Routt County, Colorado.

# LITHOLOGIC LOG FOR DRILL-HOLE CC-3

