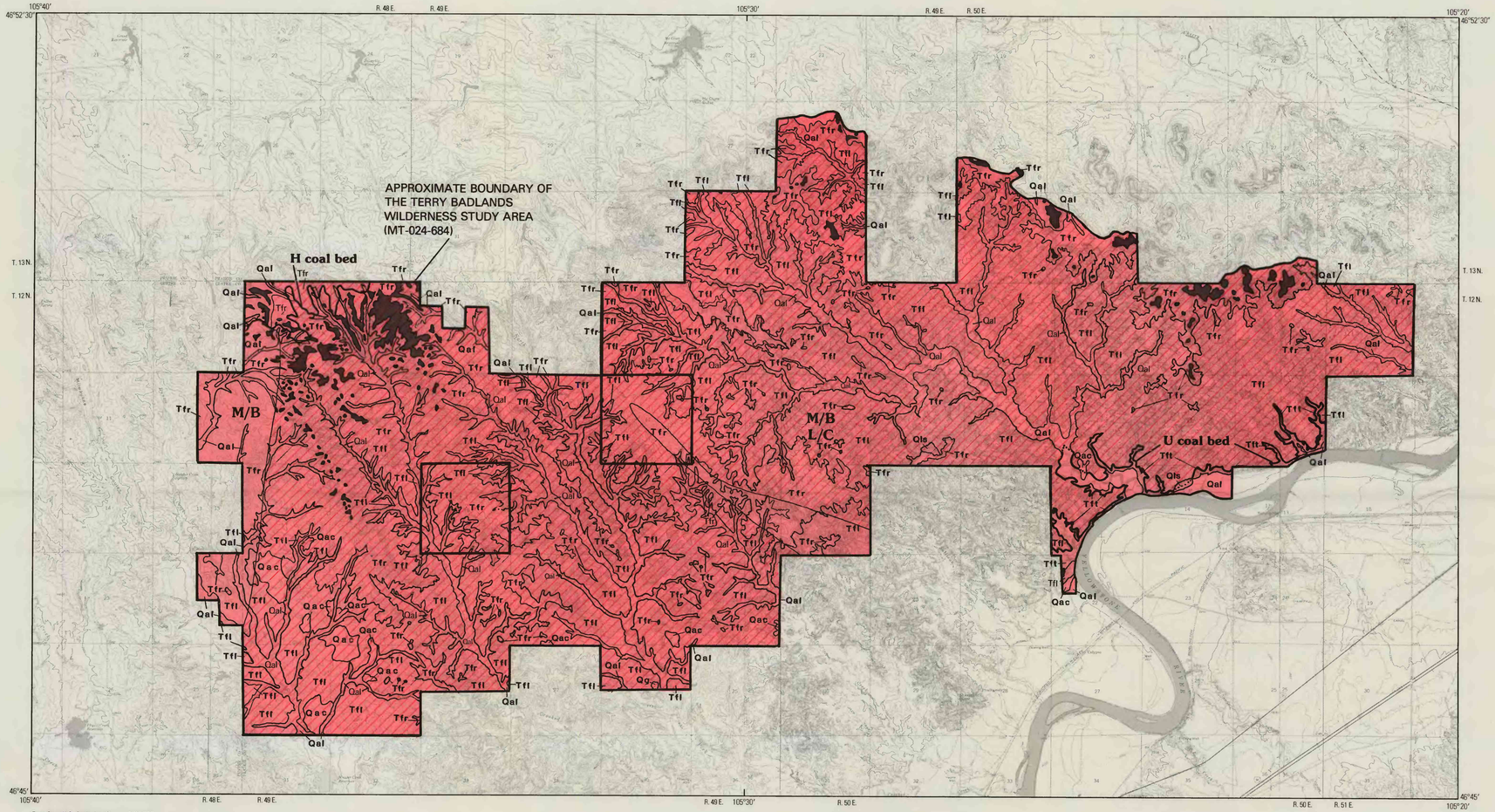
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

BULLETIN 1722-B
PLATE 1



Base from U.S. Geological Survey, 1:24,000
Physic Creek, 1972; McClure Reservoir, 1972; Calypso, 1972; and Terry, 1972

Geology mapped on aerial photographs by R. B. Colton and E. L. Heffern, 1980-81; field checked by E. L. Heffern and S. M. Cook, 1981, and J. S. Gassaway, 1984

APPROXIMATE MEAN DECLINATION, 1969

SCALE 1:50 000

1 ½ 0 1 2 3 MILES

1 .5 0 1 2 3 KILOMETERS

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MONTANA

EXPLANATION OF MINERAL RESOURCE POTENTIAL

Areas underlain by subeconomic and inferred subeconomic coal resources: coal beds at least 30 in. thick and under less than 500 ft overburden; and geologic terrane having moderate mineral resource potential for oil and gas, with certainty level B

M/B **Geologic terrane having moderate mineral resource potential for oil and gas, with certainty level B**—Applies to entire study area

L/C **Geologic terrane having low mineral resource potential for all metals, sand and gravel, geothermal energy, and bentonite**—Applies to entire study area

CORRELATION OF MAP UNITS

Qal, Qls, Og	Holocene, Pleistocene	QUATERNARY
Qac	Holocene, Pleistocene	QUATERNARY
Unconformity		
Tfr, Tfl, Tft	Paleocene	TERTIARY

LIST OF MAP UNITS

Qls **Landslide deposits (Holocene)**

Qal **Alluvium (Holocene)**

Qac **Alluvium and colluvium (Holocene and Pleistocene)**

Og **Sand and gravel deposits (Pleistocene)**—Shown only along south-central boundary of wilderness study area

Clinker (Holocene and Pleistocene)—Rocks baked and (or) fused by the in-place burning of an underlying coal bed

Fort Union Formation (Paleocene)

Tfr **Tongue River Member**

Tfl **Lebo Shale Member**

Tft **Tullock Member**

Contact

Outcrop of U and H coal beds—Dotted where concealed

LEVEL OF RESOURCE POTENTIAL ↑ / LEVEL OF CERTAINTY →	A	B	C	D
UNKNOWN POTENTIAL	U/A	H/B HIGH POTENTIAL	H/C HIGH POTENTIAL	H/D HIGH POTENTIAL
		M/B MODERATE POTENTIAL	M/C MODERATE POTENTIAL	M/D MODERATE POTENTIAL
		L/B LOW POTENTIAL	L/C LOW POTENTIAL	L/D LOW POTENTIAL
				N/D NO POTENTIAL

LEVELS OF RESOURCE POTENTIAL

H High mineral resource potential

M Moderate mineral resource potential

L Low mineral resource potential

U Unknown mineral resource potential

N No known mineral resource potential

LEVELS OF CERTAINTY

A Available data not adequate

B Data indicate geologic environment and suggest level of resource potential

C Data indicate geologic environment, give good indication of level of resource potential, but do not establish activity of resource-forming processes

D Data clearly define geologic environment and level of resource potential and indicate activity of resource-forming processes in all or part of the area

Diagram showing relationships between levels of mineral resource potential and levels of certainty. Shading shows levels that apply to this study area

MAP SHOWING IDENTIFIED RESOURCES, MINERAL RESOURCE POTENTIAL, AND GEOLOGY OF THE TERRY BADLANDS WILDERNESS STUDY AREA, CUSTER AND PRAIRIE COUNTIES, MONTANA