

EXPLANATION

[The entire Indian Creek Wilderness Study Area has inferred subsurface resources of potash and halite in the subsurface]

H/C Geologic terrane having high mineral resource potential for uranium, and byproducts vanadium and copper (north quarter of Bridger Jack Mesa Wilderness Study Area) with certainty level C

M/B Geologic terrane having moderate mineral resource potential for oil and gas with certainty level B—Applies to entire area of each of the three wilderness study areas

L/C Geologic terrane having low resource potential for uranium and associated byproducts vanadium and copper, potash and halite (in the subsurface), gold, silver, and all other metals, and coal and geothermal energy, with certainty level C—Applies to entire area of each of the three wilderness study areas except for uranium, vanadium, and copper in the north quarter of Bridger Jack Mesa Wilderness Study Area

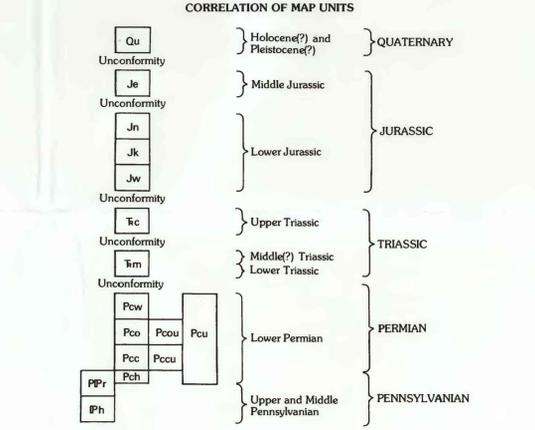
U/A Geologic terrane having unknown resource potential for rare-earth elements, with certainty level A—Applies to entire area of each of the three wilderness study areas

Level of certainty

A Available information is not adequate for determination of the level of resource potential

B Available information suggests level of resource potential

C Available information gives good indication of level of mineral resource potential



DESCRIPTION OF MAP UNITS

Qu Quaternary alluvium, eolian and slope deposits, undifferentiated (Holocene? and Pleistocene?)

Je Entrada Sandstone (Middle Jurassic)

Jn Navajo Sandstone (Lower Jurassic)

Jk Kayenta Formation (Lower Jurassic)

Jw Wingate Sandstone (Lower Jurassic)

Tc Chinle Formation (Upper Triassic)

Tm Moenkopi Formation (Middle(?) and Lower Triassic)

Pcu Cutler Formation (undivided) (Lower Permian)

Pcw White Rim Sandstone Member of the Cutler Formation (Lower Permian)

Pco Organ Rock Tongue of the Cutler Formation (Lower Permian)

Pccu Transition between Organ Rock Tongue and Cutler Formation (undivided)

Pcc Cedar Mesa Sandstone Member of Cutler Formation (Lower Permian)

Pccu Transition between Cedar Mesa Sandstone Member and Cutler Formation (undivided)

Pch Halgaito Tongue of Cutler Formation (Lower Permian)

Ppr Rico Formation (Lower Permian and Upper and Middle Pennsylvanian)

Pph Hermosa Formation (Upper and Middle Pennsylvanian)

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

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

— Contact—Dashed where approximately located

— Normal fault—Dashed where approximately located. U, upthrown side; D, downthrown side

— Anticline—Showing trace of axial plane and direction of plunge

— Syncline—Showing trace of axial plane and direction of plunge

— Strike and dip of beds:

— Inclined

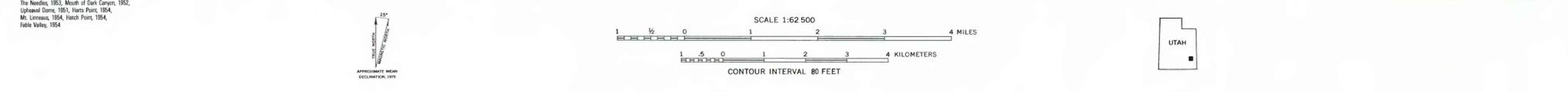
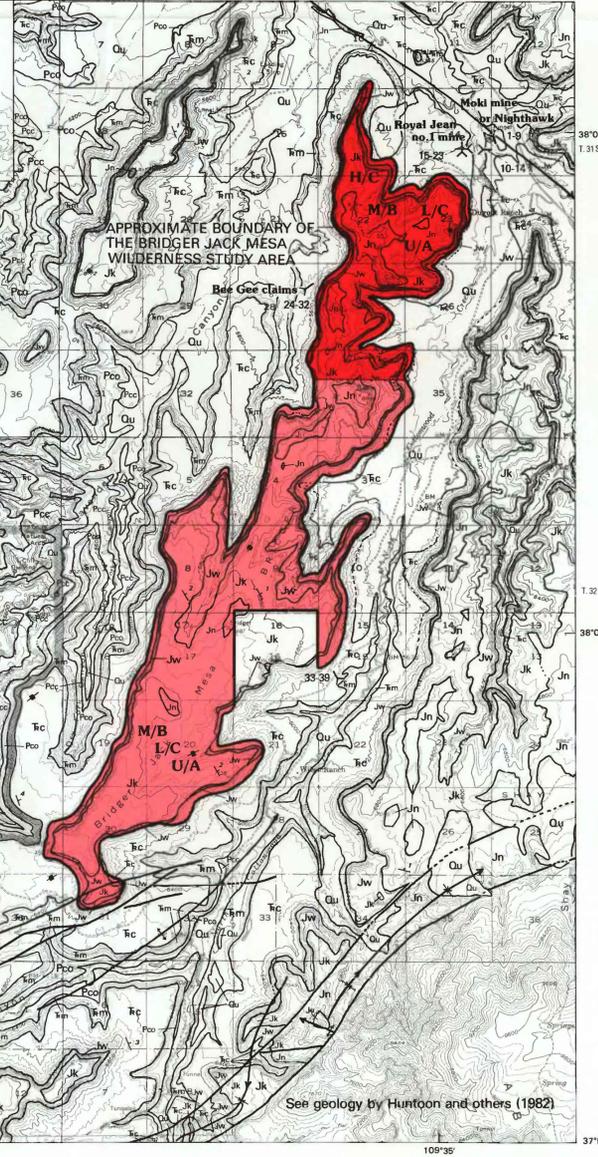
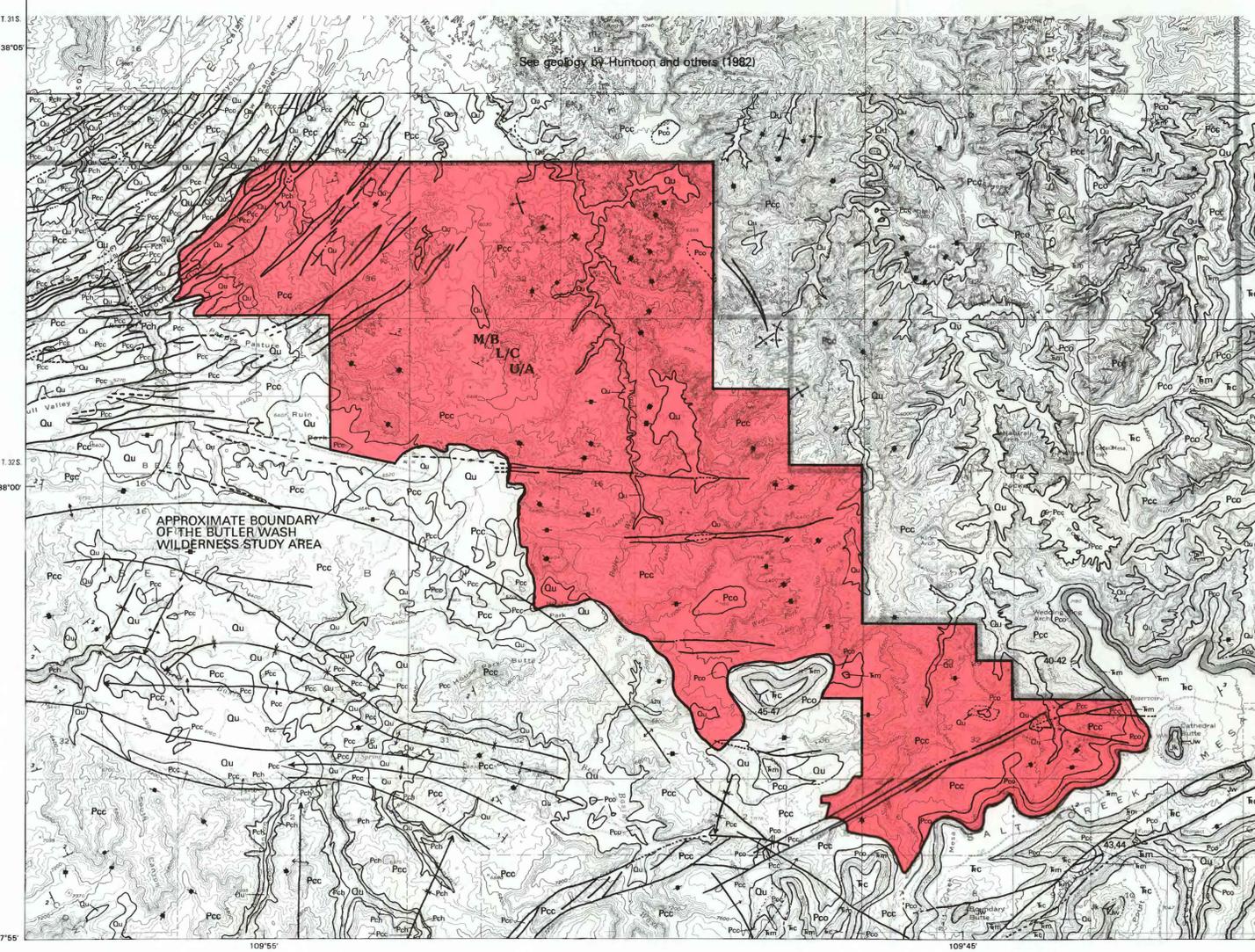
— Vertical joints—Showing strike

— Facies boundary between members of Cutler Formation—Approximately located

— Mine or prospect—Sample numbers from Schreiner (1987). See table 1 in present report for detailed description

— Boundary of Canyonlands National Park

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



MAP SHOWING RESOURCE POTENTIAL, GEOLOGY, AND LOCATION OF MINES AND PROSPECTS FOR THE INDIAN CREEK, BRIDGER JACK MESA, AND BUTLER WASH WILDERNESS STUDY AREAS, SAN JUAN COUNTY, UTAH