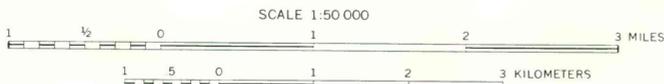


Base from U.S. Geological Survey  
Steep Creek Bench (1964), King Bench (1964),  
Boulder Town (1964), Call Creek (1964) 1:24,000,  
and Wagon Box Mesa (1953) 1:62,500.

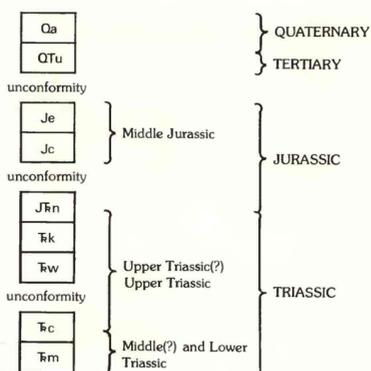
Geology modified from Davidson, 1967,  
Sargent and Hansen, 1982



**EXPLANATION**

- M/C** Geologic terrane having moderate mineral resource potential for uranium with certainty level C—Applies only to the northeastern part of the Steep Creek Wilderness Study Area
- M/B** Geologic terrane having moderate energy resource potential for oil, gas, and carbon dioxide with certainty level B and thin bentonite beds dispersed throughout the lowermost Chinle Formation on the surface and in the subsurface with certainty level C—Applies to both the Steep Creek Wilderness Study Area and to the Escalante Canyons Tract V
- M/C** Geologic terrane having low mineral resource potential for iron, cobalt, nickel, copper, lead, molybdenum, tin, cadmium, strontium, vanadium, and geothermal energy with certainty level C—Applies to both study areas
- L/C** Geologic terrane having low mineral resource potential for gypsum—Applies only to the Escalante Canyons Tract V
- U/A** Concealed geologic terrane having unknown mineral resource potential for uranium with certainty level A—Applies to the western, central, and southeastern part of the Steep Creek Wilderness Study Area and to the entire Escalante Canyons Tract V
- N/D** Geologic terrane having no resource potential for gypsum, with certainty level D—Applies only to Steep Creek Wilderness Study Area

**CORRELATION OF MAP UNITS**



**DESCRIPTION OF MAP UNITS**

- Oa** Surficial deposits (Quaternary), undifferentiated; including windblown sand, stream alluvium, and landslide deposits
- QTu** Older surficial deposits (Quaternary and Tertiary), undifferentiated; including pediment and bouldery deposits
- Je** Entrada Sandstone (Middle Jurassic)—Cliff- and slope-forming sandstone, siltstone, and mudstone. About 900 ft thick
- Jc** Carmel Formation (Middle Jurassic)—Mottled sandstone, siltstone, mudstone, limestone, and gypsum. About 200 ft thick
- Jfn** Navajo Sandstone (Jurassic and Triassic?)—Strikingly crossbedded to massive, white to buff, cliff-forming sandstone. About 1,400 ft thick
- Tk** Kayenta Formation (Upper Triassic?)—Ledge-forming sandstone, siltstone, shale, and conglomerate, with some crossbedded units. 0–450 ft thick
- Tw** Wingate Sandstone (Upper Triassic)—Homogeneous cliff-forming sandstone, frequently stained reddish brown and purple by desert varnish and pockmarked by erosion. 200–400 ft thick
- Tc** Chinle Formation (Upper Triassic)—Lenticular, channelized, sandstone, siltstone, mudstone, and conglomerate, with minor limestone and petrified wood; a uranium-bearing sandstone. 0–450 ft thick
- Tm** Moenkopi Formation (Middle(?) and Lower Triassic)—Slope-forming sandstone, siltstone, and mudstone, with minor limestone, conglomerate, dolomite, and gypsum; potential petroleum reservoir rock. 500–700 ft thick

- Contact; may be approximately located or concealed
- - - Fault; dashed where inferred, bar and ball on downthrown side
- ↗ Strike and dip of beds
- ↘ Syncline; showing trace of axial plane and plunge

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
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

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

**MAP SHOWING MINERAL RESOURCE POTENTIAL AND GENERALIZED GEOLOGY OF THE STEEP CREEK WILDERNESS STUDY AREA, GARFIELD COUNTY, UTAH, AND THE ESCALANTE CANYONS TRACT V, KANE COUNTY, UTAH**