



Base from U.S. Geological Survey 1:24,000 Big Hollow Wash, 1966; Circle Cliffs 43W unedited advance print, 1953; and Sunset Flat, 1964; and Moody Creek, 1:62,500, 1953

EXPLANATION OF MINERAL RESOURCE POTENTIAL

M/B Geologic terrane having moderate energy resource potential for oil, gas, and carbon dioxide, with certainty level B, in the subsurface—Applies to entire study area

L/B Geologic terrane having low mineral resource potential for uranium in the Chinle Formation, with certainty level B—Applies to entire study area

L/C Geologic terrane having low mineral resource potential for metals other than uranium, gypsum in the Carmel Formation, (unit Jc), and geothermal energy, with certainty level C—Applies to entire study area

CORRELATION OF MAP UNITS

Je	Middle Jurassic	JURASSIC
Jc		
Jfjn	Middle and Lower Jurassic and Upper Triassic (?)	TRIASSIC
Tk		
Tw	Upper Triassic	

DESCRIPTION OF MAP UNITS

- Je **Entrada Sandstone (Middle Jurassic)**—Cliff- and slope-forming sandstone, siltstone, and mudstone. Less than 100 ft thick
- Jc **Carmel Formation (Middle Jurassic)**—Mottled sandstone, siltstone, mudstone, limestone, and gypsum. About 200 ft thick
- Jfjn **Page Sandstone (Middle Jurassic) and Navajo Sandstone (Jurassic and Triassic?) undifferentiated**—Strikingly crossbedded to massive, white to buff-colored, 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, commonly stained reddish brown and purple by desert varnish and pockmarked by erosion. 200–400 ft thick

- Contact—May be approximately located or concealed
- SC209 Sample locality and number
 - SC101 Locality and number of stream-sediment sample containing anomalous barium
 - ▲ SK022 Locality and number of stream-sediment sample containing anomalous barium and strontium
 - SK002 Locality and number of panned-concentrate sample containing indicated minerals Pyrite

LEVEL OF RESOURCE POTENTIAL ↑	U/A	H/B	H/C	H/D
		HIGH POTENTIAL	HIGH POTENTIAL	HIGH POTENTIAL
	UNKNOWN	M/B MODERATE POTENTIAL	M/C MODERATE POTENTIAL	M/D MODERATE POTENTIAL
	POTENTIAL	L/B	L/C	L/D 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, BEDROCK GEOLOGY, AND SAMPLE LOCALITIES OF THE SCORPION WILDERNESS STUDY AREA, GARFIELD AND KANE COUNTIES, UTAH