

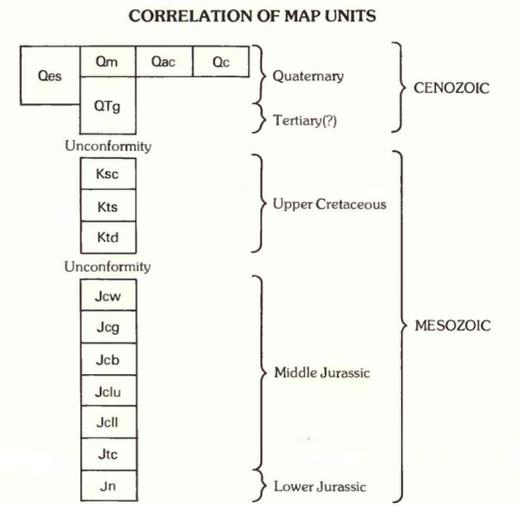
**EXPLANATION OF MINERAL RESOURCE POTENTIAL**

**[Red Box]** Area having identified resources of gypsum, as well as a moderate resource potential for oil and gas

**[Light Red Box]** M/C Geologic terrane having a moderate resource potential for oil and gas, with certainty level C—Applies to entire study area

**[Pink Box]** L/D Geologic terrane having a low resource potential for uranium and silver, and for geothermal sources and coal, with certainty level D—Applies to entire study area

**[White Box]** N/D Geologic terrane having no potential for gypsum, with certainty level D—Applies to that part of the study area not containing identified resources of gypsum



- LIST OF MAP UNITS**
- Qac Alluvium and colluvium (Quaternary)
  - Qc Colluvium (Quaternary)
  - Qm Mass movement deposits (Quaternary)
  - Qes Eolian sand, silt, and clay (Quaternary)
  - QTg Remnant gravel (Quaternary and Tertiary(?))
  - Ksc Straight Cliffs Sandstone (Upper Cretaceous)
  - Kts Shale member of Tropic Shale (Upper Cretaceous)
  - Ktd Tropic Shale and Dakota Sandstone, undivided (Upper Cretaceous)
  - Carmel Formation (Middle Jurassic) of San Rafael Group (Middle Jurassic):
    - Jcw Winsor Member
    - Jcg Gypsiferous member
    - Jcb Banded member
    - Jclu Limestone member, upper unit
    - Jcll Limestone member, lower unit
    - Jtc Temple Cap Sandstone (Middle Jurassic)
    - Jn Navajo Sandstone (Lower Jurassic) of Glen Canyon Group (Lower Jurassic)

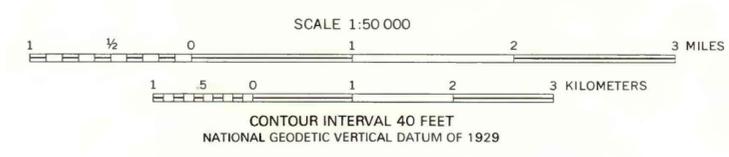
- Contact—Includes approximate and inferred contacts
- - - Fault—Dashed where approximately located or inferred, dotted where concealed, questioned where uncertain. Bar and ball on downthrown side
- Prominent bedrock fracture—Joint or possible fault
- |||| Scarp—Internal scarp of landslide deposits. Hachures point toward interpreted direction of movement

LEVEL OF RESOURCE POTENTIAL ↑	U/A	H/B	H/C	H/D
		HIGH POTENTIAL	HIGH POTENTIAL	HIGH POTENTIAL
	UNKNOWN	M/B	M/C	M/D
	POTENTIAL	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

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

Base from U.S. Geological Survey 1:24,000 Clear Creek Mountain, The Barracks (1980); Mount Carmel (1985)



Geology by E. G. Sable and R. E. Van Loenen (1985-86), including previous mapping by W. B. Cashion (1953-54, 1960-61) and by K.A. Sargent and B.C. Philpott (1978-83)

**MINERAL RESOURCES OF THE PARUNUWEAP CANYON WILDERNESS STUDY AREA, KANE COUNTY, UTAH**