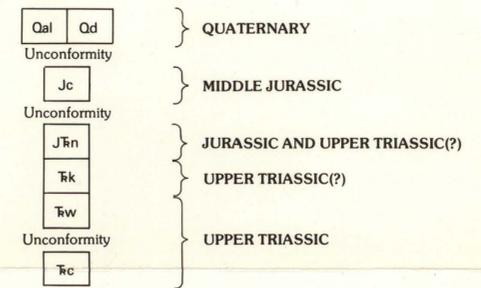


- EXPLANATION**
- M/B** Geologic terrane having moderate mineral resource potential for uranium, vanadium, and copper in the Moss Back Member of the Chinle Formation and for oil and gas, with certainty level B—Applies to entire study area
 - M/B** Geologic terrane having moderate mineral resource potential for uranium, vanadium, and copper in the Moss Back Member of the Chinle Formation and for oil and gas and potash, with certainty level B
 - L/C** Geologic terrane having low mineral resource potential for all metals, except as noted above, and for geothermal energy, with certainty level C—Applies to entire study area

CORRELATION OF MAP UNITS



LIST OF MAP UNITS

- Qal Alluvium and terrace gravel (Quaternary)
 - Qd Dune sand (Quaternary)
 - Jc Carmel Formation (Middle Jurassic)
 - Jrn Navajo Sandstone (Jurassic and Upper Triassic?)
 - Fw Wingate Sandstone (Upper Triassic)
 - Fc Chinle Formation (Upper Triassic)
- Contact
 — Strike and dip of beds
 ● Sample locality and number—Numbers shown only for localities discussed in text:
 ● Stream-sediment sample
 ▲ Stream-sediment and panned-concentrate sample
 ■ Rock sample
 — Adit
 — Caved adit
 ▨ Lode claims

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 LOW POTENTIAL	L/C LOW POTENTIAL	L/D LOW POTENTIAL
			N/D NO POTENTIAL	
	A	B	C	D

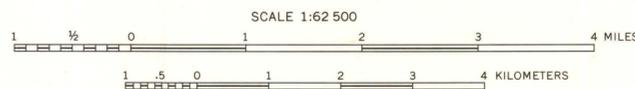
LEVEL OF CERTAINTY →

- 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, 1:62,500
The Knoll, 1951, The Spur, 1953, and Bowknot Bend, 1963

Geology modified from Huntoon and others (1982).
Area north of 38°37'30" mapped by S.J. Soulliere
and A.M. Leibold in 1986



CONTOUR INTERVAL 80 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



MAP SHOWING MINERAL RESOURCE POTENTIAL, GEOLOGY, SAMPLE LOCALITIES, LODGE CLAIMS, MINES, AND PROSPECTS OF THE HORSESHOE CANYON NORTH WILDERNESS STUDY AREA, EMERY AND WAYNE COUNTIES, UTAH