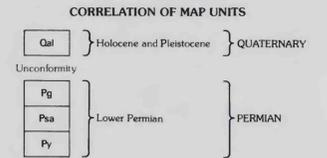


EXPLANATION OF MINERAL RESOURCE POTENTIAL

L/C Geologic terrane having a low resource potential for all metals, coal, oil and gas, and geothermal energy, with a certainty level of C—Applies to entire wilderness study area

C Level of certainty
Data indicate geologic environment and resource potential, but do not establish activity of resource forming process



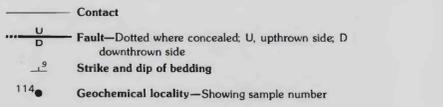
DESCRIPTION OF MAP UNITS

Qal Alluvium (Holocene and Pleistocene)—Poorly sorted stream and fan deposits in major streams and in Crow Flats. Alluvium is made up mostly of boulders, cobbles, and pebbles of dolomite and dolomitic limestone in a sand-sized matrix of dolomitic fragments. Boulder fans that coalesce with silty and argillaceous alluvium deposits of Crow Flats occur at the mouths of the major canyons along the western escarpment of the map area.

Pg Grayburg Formation (Lower Permian)—Dolomite and calcareous dolomite, grayish orange to very light orange and gray, fine grained, and medium bedded; contains minor interbeds of light-orange, very fine grained, thin- to medium-bedded calcareous and dolomitic sandstone. Formation is resistant to erosion and underlies the higher ridges of the map area. Formation conformably overlies the San Andres Limestone.

Psa San Andres Limestone (Lower Permian)—Dolomite and dolomitic limestone, medium gray to light olive gray, fine to medium grained, thin to medium bedded; locally dolomites are thinly laminated and crossbedded and contain medium-gray chert nodules. Local gypsum layers 1/4 to 3 inches thick, widely spaced throughout the unit. Unit locally grades upward into the Grayburg Formation. Thickness of unit in map area cannot be estimated due to extensive faulting; however, in sec. 30, T. 26 S., R. 20 E., where unit is unfaulted, it is about 780 feet thick.

Py Yezo Formation (Lower Permian)—Dolomite, medium grained, thick bedded, fossiliferous, bioclastic. Formation is exposed in upthrown fault blocks as prominent ledges and is overlain conformably by the San Andres Limestone. Base not exposed.



LEVEL OF RESOURCE POTENTIAL ↑	U/A	H/B	H/C	H/D
	MODERATE POTENTIAL	MODERATE POTENTIAL	MODERATE POTENTIAL	MODERATE POTENTIAL
	L/B	L/C	L/D	L/D
	LOW POTENTIAL	LOW POTENTIAL	LOW POTENTIAL	NO POTENTIAL
	A	B	C	D

LEVEL OF CERTAINTY →

LEVELS OF RESOURCE POTENTIAL

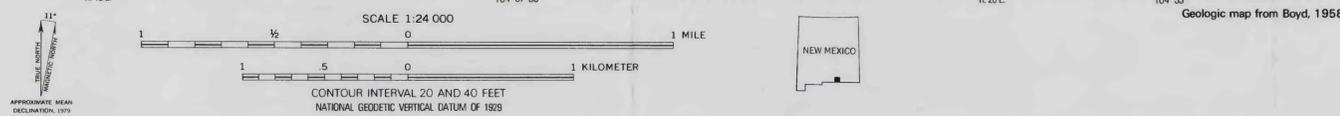
H High mineral resource potential
M Moderate mineral resource potential
L Low mineral resource potential
U Unknown mineral resource potential
N No known mineral resource potential

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, Cimera School, 1969, 1:24,000; Panther Canyon, 1979, 1:24,000



MAP SHOWING MINERAL RESOURCE POTENTIAL, GEOLOGY, AND GEOCHEMICAL SAMPLE LOCALITIES, BROKEOFF MOUNTAINS WILDERNESS STUDY AREA, OTERO COUNTY, NEW MEXICO