

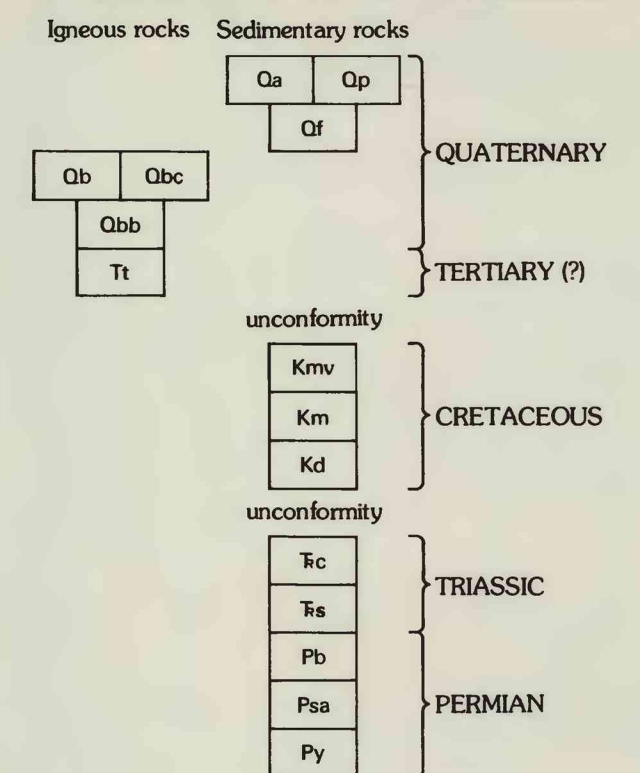
**EXPLANATION OF IDENTIFIED RESOURCES AND MINERAL RESOURCE POTENTIAL**

- The Carrizozo lava flows (Qc) are an inferred subeconomic resource of lava in both study areas
- M/C** Geologic terrane having moderate mineral resource potential for the nonmetallic commodities, gypsum and salt, at certainty level C—Applies to all of both study areas
  - L/C, B** Geologic terrane having low mineral resource potential for oil and gas, at certainty level C, and for coal and geothermal sources, at certainty level B—Applies to all of both study areas
  - L/C** Geologic terrane having low mineral resource potential for uranium associated with Tertiary(?) trachyte, at certainty level C—Applies to southeastern part of Little Black Peak Wilderness Study Area
  - L/B** Geologic terrane having low mineral resource potential for sediment-hosted copper and uranium, at certainty level B—Applies to all of both study areas
  - U/A** Geologic terrane having unknown mineral resource potential associated with aeromagnetic anomalies, at certainty level A—Applies to southern part of the Little Black Peak Wilderness Study Area and northern part of the Carrizozo Lava Flow Wilderness Study Area

**Levels of certainty**

- A** Available information is not adequate for determination of the level of mineral resource potential
- B** Available information suggests the level of mineral resource potential
- C** Available information gives a good indication of the level of mineral resource potential

**CORRELATION OF MAP UNITS**



**DESCRIPTION OF MAP UNITS**

- Qa Alluvium (Quaternary)
  - Qp Playa (dry lake bed) deposits (Quaternary)
  - Qf Alluvial fan or terrace deposits (Quaternary)
  - Qbc Basaltic cinder
  - Qb Flow basalt
  - Qbb Broken Back lava flow (Quaternary)
  - Tt Trachyte (Tertiary?)
  - Kmv Mesaverde Group (Cretaceous)
  - Km Mancos Shale (Cretaceous)
  - Kd Dakota Sandstone (Cretaceous)
  - Trc Chinle Formation (Triassic)
  - Trs Santa Rosa Formation (Triassic)
  - Pb Bernal Formation (Permian)
  - Psa San Andres Formation (Permian)
  - Py Yeso Formation (Permian)
- Contact
  - Fault
  - Strike and dip of beds
  - Anticline
  - Syncline
  - Sinkhole
  - × Prospect
  - Stream-sediment sample locality
  - ◇ Drill hole

LEVEL OF RESOURCE POTENTIAL ↑	U/A	H/B HIGH POTENTIAL	H/C HIGH POTENTIAL	H/D HIGH POTENTIAL
	M/B MODERATE POTENTIAL	M/C MODERATE POTENTIAL	M/D MODERATE POTENTIAL	
	L/B LOW POTENTIAL	L/C LOW POTENTIAL	L/D LOW POTENTIAL	
	U/A UNKNOWN POTENTIAL	N/D NO POTENTIAL		
	A	B	C	D
	LEVEL OF CERTAINTY →			

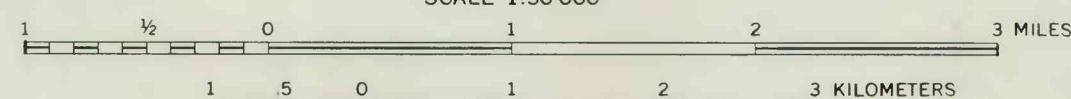
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|--|--|
| <b>H</b> High mineral resource potential     | <b>A</b> Available data not adequate   |
| <b>M</b> Moderate mineral resource potential | <b>B</b> Data indicate geologic environment and suggest level of resource potential  |
| <b>L</b> Low mineral resource potential      | <b>C</b> Data indicate geologic environment, give good indication of level of resource potential, but do not establish activity of resource-forming processes    |
| <b>U</b> Unknown mineral resource potential  | <b>D</b> 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 Carrizozo East, 1982, Carrizozo West, 1982, Cub Mountain, 1981, Little Black Peak, 1981, Love Mountain, 1982, Wagon Canyon, 1982, and 1:62,500 Broken Back Crater, 1948

Geology from Dane and Bachman (1958), Smith (1964), and Weber (1964), modified and compiled by D. B. Stoesser, 1987

SCALE 1:50 000



CONTOUR INTERVAL 20 FEET  
100-FOOT CONTOURS SHOWN IN LAVA AREAS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

111° 5' N  
MAGNETIC NORTH  
APPROXIMATE MEAN DECLINATION, 1982



**GEOLOGIC AND MINERAL RESOURCE POTENTIAL MAP OF THE LITTLE BLACK PEAK AND CARRIZOSO LAVA FLOW WILDERNESS STUDY AREAS, LINCOLN COUNTY, NEW MEXICO**