

- EXPLANATION OF MINERAL RESOURCE POTENTIAL**
- [Energy resource potential for oil and gas is moderate, with certainty level B, except that zones of igneous intrusion or extensive hydrothermal alteration have low energy resource potential for oil and gas, with certainty level B. Entire study area has low mineral and energy resource potential for (1) manganese, barite, coal, and geothermal energy, with certainty level B, and (2) vermiculite, with certainty level D]
- H1/C** Geologic terrane having high mineral resource potential for commodity 1, with certainty level C
 - H2/C** Geologic terrane having high mineral resource potential for commodity 2, with certainty level C
 - M3/B** Geologic terrane having moderate mineral resource potential for commodity 3, with certainty level B
 - M4/B** Geologic terrane having moderate mineral resource potential for commodity 4, with certainty level B
 - L/B** Geologic terrane having low mineral resource potential for all metals, with certainty level B
- Commodities**
- 1 Vein (including breccia-vein), replacement (including manto), porphyry, stockwork, and (or) tactite-type deposits of lead, silver, copper, zinc, and (or) gold
 - 2 Vein (including breccia-vein), replacement (including manto), porphyry, stockwork, and (or) tactite-type deposits of lead, silver, copper, zinc, arsenic, antimony, and (or) gold, and disseminated gold
 - 3 Vein deposit of antimony
 - 4 Vein, stockwork, porphyry, and (or) tactite-type deposits of tungsten, molybdenum, and (or) tin

- LIST OF MAP UNITS**
- Qa Quaternary alluvium and talus
 - Tv Tertiary volcanic rocks
 - PIPb Permian and Pennsylvanian Bird Spring Formation
 - MOd Mississippian to Ordovician carbonate formations
 - Cd Cambrian dolostone formations
 - Cc Cambrian clastic formations
 - Xm Early Proterozoic metamorphic and igneous rocks

- Depositional contact
- - - Uncertain contact—Cross section only
- High-angle fault—Bar and ball on downthrown side
- Mormon thrust fault—Sawtooth on upper plate
- Mormon Peak detachment fault—Hachures on upper plate
- Low-angle fault—Hachures on upper plate
- Fault—Dotted where projected above surface. Arrow shows direction of movement. Cross section only
- Whitmore mine
- X Iron Blossom prospect
- M383 Stream-sediment sample locality, and drainage area boundary—Samples M372, M361, M363, M359, M347, M342, M345, M316, M299, and M280 collected outside map area
- 288 Whole-rock sample locality—Includes samples M347 (collected outside map area), H30, and H31
- ▲2 Limestone sample locality—Approximately located

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

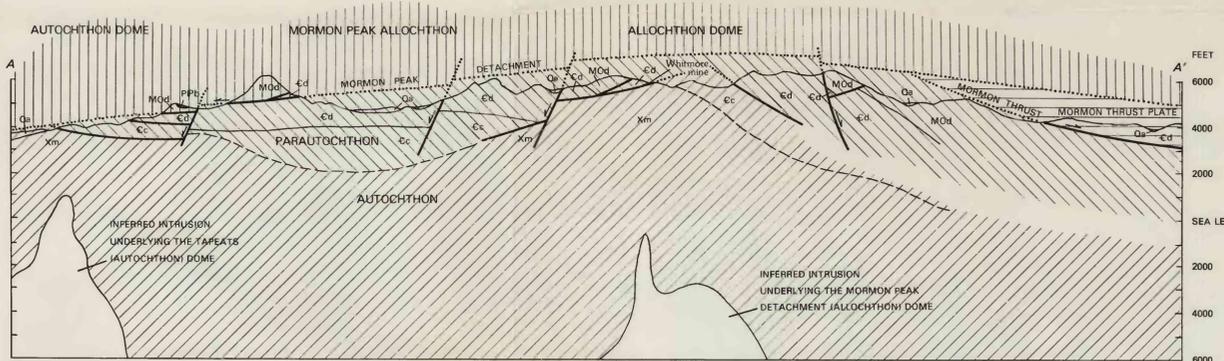
LEVELS OF RESOURCE POTENTIAL

- 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, GENERALIZED GEOLOGY, GEOCHEMICAL SAMPLING SITES, AND MINE AND PROSPECT LOCATIONS OF THE MORMON MOUNTAINS WILDERNESS STUDY AREA AND VICINITY, NEVADA