



EXPLANATION OF IDENTIFIED RESOURCES AND MINERAL RESOURCE POTENTIAL

- [All areas underlain by units Qg and Qgu have high mineral resource potential, at certainty level D, for sand and gravel deposits. The entire wilderness area has low mineral resource potential, at certainty level C, for placer gold deposits and geothermal energy. All areas not shown as having high or moderate mineral resource potential for a specific commodity have low mineral resource potential, at certainty level C, for that commodity.]
- Geologic terrane having high mineral resource potential, at certainty level D, for stockwork molybdenum deposits
 - Geologic terrane having high mineral resource potential, at certainty level D, for veins of base and precious metals
 - Geologic terrane having high mineral resource potential, at certainty level C, for high-purity limestone
 - Geologic terrane having moderate mineral resource potential, at certainty level C, for veins of base and precious metals
 - Geologic terrane having moderate mineral resource potential, at certainty level C or B, for stockwork molybdenum deposits
 - Geologic terrane having moderate mineral resource potential, at certainty level B, for stratabound sulfide deposits in Paleozoic carbonate rocks
 - Geologic terrane having low mineral resource potential, at certainty level C, for stratabound sulfide deposits in Proterozoic metamorphic rocks

CORRELATION OF MAP UNITS

Qa	Qt	Qls	Qg	Qgu	Holocene	QUATERNARY
					Pleistocene	
			Tr		Pliocene or Miocene	TERTIARY
			Tb	Tt	Oligocene	
			Tbx		Paleocene	CRETACEOUS
			Tm	Tv	Paleocene and Upper Cretaceous	
			Tks	Tkn	Paleocene and Upper Cretaceous	TRIASSIC
					Lower Triassic and Upper Permian	PERMIAN
						PENNSYLVANIAN
					Middle Pennsylvanian	
					Lower Mississippian	MISSISSIPPIAN, DEVONIAN, AND ORDOVICIAN
					Upper Cambrian	
						MIDDLE PROTEROZOIC
						EARLY PROTEROZOIC

LIST OF MAP UNITS

- Qa Alluvium (Quaternary)
- Qt Talus (Quaternary)
- Qls Landslide deposits (Quaternary)
- Qg Glacial deposits (Quaternary)
- Qgu Surficial deposits, undifferentiated (Quaternary)
- Tr Rhyolite (Pliocene or Miocene)
- Tb Latite breccia (Oligocene)
- Tt Turquoise Lake stock (Oligocene)
- Tbx Intrusion breccia (Paleocene)
- Tm Intrusive rocks of Middle Mountain (Paleocene)
- Td Diorite (Paleocene)
- Tkx Intrusive rocks of Treasure Vault Lake (Paleocene)
- Tv Syenite (Paleocene and Upper Cretaceous)
- Tks Monzogranite (Paleocene and Upper Cretaceous)
- Tkn State Bridge Formation (Lower Triassic and Upper Permian)
- PPm Maroon Formation (Lower Permian and Pennsylvanian)
- Pmb Minturn Formation and Belden Shale (Middle Pennsylvanian)
- MI Leadville Limestone (Lower Mississippian)
- MOs Sedimentary rocks, undivided (Lower Mississippian through Ordovician)
- COs Sedimentary rocks, undivided (Upper Cambrian)
- Pu Paleozoic sedimentary rocks, undivided
- Yi St. Kevin Granite and related intrusive rocks (Middle Proterozoic)
- Xi Cross Creek Granite and related intrusive rocks (Early Proterozoic)
- Xks Calc-silicate and hornblende gneiss (Early Proterozoic)
- Xgm Gneiss and migmatite (Early Proterozoic)
- YXu Middle to Early Proterozoic rocks, undivided
- U Contact
- U-D Fault—U, upthrown block; D, downthrown block
- S Shear or mylonite zone
- F Fold
- S Syncline
- A Anticline
- A Area containing abundant quartz-porphphyry-rhyolite dikes
- S Strike and dip of beds
- I Inclined
- V Vertical
- H Horizontal
- S Strike and dip of foliation
- I Inclined
- V Vertical

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

- 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 County Map Series, Eagle, Lake, Pitkin, 1975

MAP SHOWING GEOLOGY AND MINERAL RESOURCE POTENTIAL OF THE HOLY CROSS WILDERNESS AREA, EAGLE, PITKIN, AND LAKE COUNTIES, COLORADO