

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

- Area of identified resources—Areas B, B', perlite; area C, high-silica quartzite
- M/B Geologic terrane having moderate mineral resource potential for metals shown (areas A and D), with certainty level B
- L/B Geologic terrane having low mineral resource potential for all metals, oil, gas, and coal, with certainty level B

**CORRELATION OF MAP UNITS**

Intrusive rocks	Sedimentary rocks	Geologic Period
	Qaf	QUATERNARY
	Ql	
	QTs	TERTIARY
	Tv	
	Ps	PENNSYLVANIAN
	PMe	
	Msj	MISSISSIPPIAN
	Dws	
	SOI	DEVONIAN
	Oe	
	OCw	SILURIAN
		ORDOVICIAN
		CAMBRIAN

**DESCRIPTION OF MAP UNITS**

- Qaf** Alluvium, alluvial-fan, and lacustrine deposits (Holocene and Pleistocene)
- Ql** Landslide deposits (Holocene and Pleistocene)—Bouldery debris and blocks of Scotty Wash Sandstone on Chainman Shale
- QTs** Cave Valley Formation of Kellogg (1964) (Pleistocene and Pliocene) and older sandstone and tuffaceous sediments (Miocene)—Lacustrine deposits, poorly exposed siltstone, sandstone, and conglomerate of the Cave Valley Formation overlie diverse tuffaceous sedimentary rocks derived from the erosion of mid-Tertiary volcanic rocks north and west of Shingle Pass
- Tv** Rhyodacite and rhyolite plugs (Oligocene)—Pale-red, porphyritic hornblende-biotite-quartz rhyodacite plug and smaller very light gray aphyric rhyolite plug
- PMe** Ash-flow tuffs, rhyodacite, and dacite porphyry flows (Oligocene)—Includes some perlitic vitrophyres (v)
- Ps** Ely Limestone (Middle and Lower Pennsylvanian, Upper Mississippian)—Chiefly medium-bedded, silty, highly fossiliferous limestone. An unnamed calcisiltite unit (Ps) overlies the Ely Limestone
- Msj** Scotty Wash Sandstone (Upper Mississippian), Chainman Shale (Upper and Lower Mississippian), and Joana Limestone (Lower Mississippian)
- Dws** West Range Limestone (Upper Devonian), Guilmette Formation (Upper and Middle Devonian), Simonson Dolomite (Middle Devonian), and Sevy Dolomite (Middle and Lower Devonian)
- SOI** Laketown Dolomite (Silurian) and Ely Springs Dolomite (Silurian and Upper Ordovician)—Undivided
- Oe** Eureka Quartzite, Lehman Formation, Kanosh Shale, Shingle Limestone, and Parker Spring Formation (Middle Ordovician), and House Limestone (Lower Ordovician)—Undivided
- OCw** Whipple Cave Formation (Lower Ordovician and Upper Cambrian), Dunderberg Formation, and Emigrant Springs Limestone (Upper Cambrian)

LEVEL OF RESOURCE POTENTIAL	U/A	H/B	H/C	H/D
	UNKNOWN POTENTIAL	LOW POTENTIAL	MODERATE POTENTIAL	MODERATE POTENTIAL
POTENTIAL	LOW POTENTIAL	MODERATE POTENTIAL	LOW POTENTIAL	LOW POTENTIAL
				N/D NO POTENTIAL
	A	B	C	D

LEVEL OF CERTAINTY →

**LEVELS OF RESOURCE POTENTIAL**

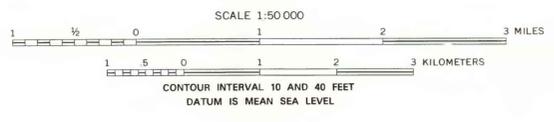
- H** High mineral resource potential
- M** Moderate mineral resource potential
- L** Low mineral resource potential
- U** Unknown mineral resource potential
- N** No known mineral resource potential

**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

- Contact—Dashed where approximately located
- - - Fault—Dashed where approximately located; dotted where concealed. Ball and baron downthrowside
- 40° Strike and dip of beds
- 20° Strike and dip of compaction foliation in ash-flow tuff
- \* Locality of sample used for potassium-argon age determination
- DHSE13 Locality of stream-sediment and rock sample—Showing number
- CW19-84 Locality and number of jasperoid sample



**MAP SHOWING IDENTIFIED RESOURCES, MINERAL RESOURCE POTENTIAL, SIMPLIFIED GEOLOGY, AND SAMPLE LOCALITIES, FAR SOUTH EGANS WILDERNESS STUDY AREA, LINCOLN AND NYE COUNTIES, NEVADA**

Based from U.S. Geological Survey, 1:250,000 Cave Valley Well, 1971; Shingle Pass, 1969; Shingle Pass SE, 1969, and Sunnyvale, 1969  
Geology from Kellogg (1963) and reconnaissance mapping by D.C. Hedlund and R.C. Davies, 1964