

EXPLANATION OF IDENTIFIED RESOURCES AND MINERAL RESOURCE POTENTIAL

[Entire study area has low resource potential for oil and gas, with certainty level C]

- Area of identified phosphate resources
- M/B Geologic terrane having moderate mineral resource potential for gold, silver, lead, zinc, and copper, with certainty level B
- M/B Geologic terrane having moderate mineral resource potential for phosphate, with certainty level B
- L/C Areas labeled TPI and PMI have identified resources of common limestone and dolomite and low mineral resource potential for undiscovered high-purity limestone and dolomite, with certainty level C
- L/D Areas labeled Qal have identified resources of common sand and gravel and low mineral resource potential for specialty sand and gravel, with certainty level D

CORRELATION OF MAP UNITS

Qal	}	QUATERNARY
Unconformity		
TPI	}	TRIASSIC TO PERMIAN
Ppy		PERMIAN
PMI		PERMIAN TO MISSISSIPPIAN

DESCRIPTION OF MAP UNITS

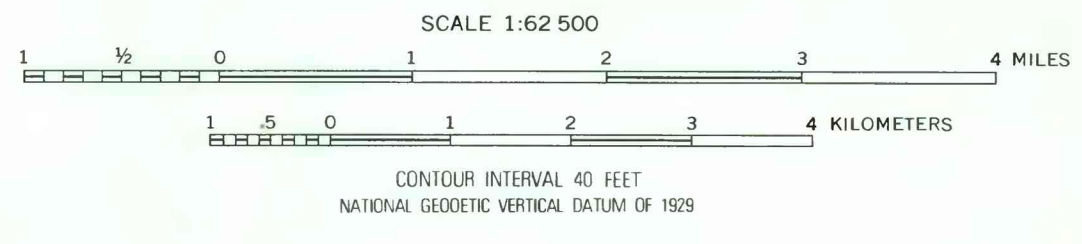
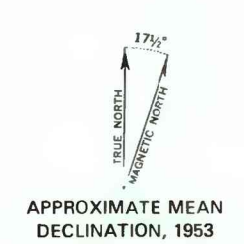
- Qal Alluvium, colluvium, and landslide deposits (Quaternary)
- TPI Limestone (Triassic and Permian)—Limestone with few shale interbeds underlain by cherty limestone
- Ppy Plympton Formation (Permian)—Poorly exposed phosphatic rocks interbedded with mainly cherty dolomite; and subordinate limestone, silty rocks, and bedded spiculitic chert
- PMI Silty limestone and conglomerate (Permian-Mississippian)—Siltstone and cherty limestone at top underlain by a thick sequence of silty and sandy limestone; conglomerate and shale at base

- Contact
- High-angle fault—Relative vertical movement shown by D (down) and U (up); relative horizontal movement shown by arrows
- 7 Geochemical sample site—Bedrock samples by U.S. Bureau of Mines are numbered 1-57; stream-sediment samples by U.S. Geological Survey are unnumbered
- - - Area of phosphate prospecting permits, 1965-1972
- Boundary of oil and gas leases—Hachures are inside

LEVEL OF RESOURCE POTENTIAL ↑	U/A	H/B	H/C	H/D
	UNKNOWN	M/B	M/C	M/D
	POTENTIAL	L/B	L/C	L/D
	NO KNOWN	N/A	N/C	N/D
	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



MINERAL AND ENERGY RESOURCE POTENTIAL MAP OF THE SOUTH PEQUOP WILDERNESS STUDY AREA, ELKO COUNTY, NEVADA