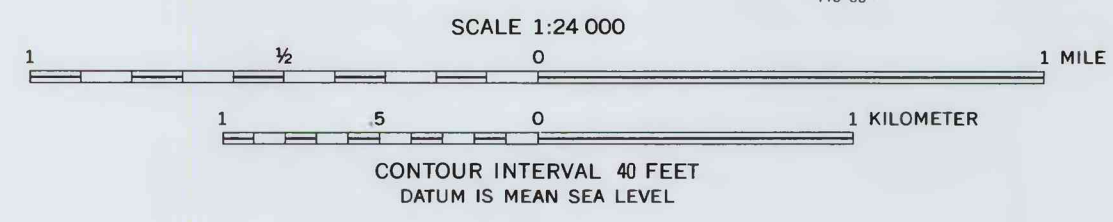
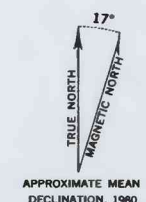


Base from U.S. Geological Survey 1:24,000
Burnt Creek, 1967, Short Creek, 1967,
and Massacre Mountain, 1967

Geology by Betty Shepp, 1986-87, D.H. McKroy, 1986, assisted by J.M. LaDue, 1986



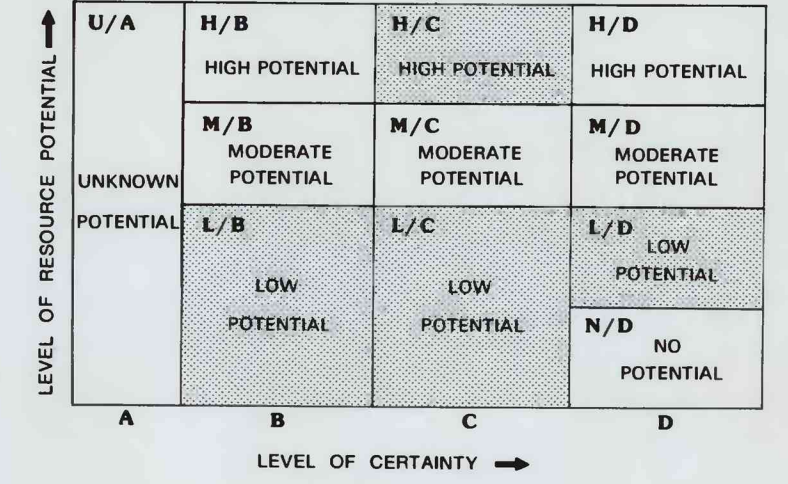
- EXPLANATION OF MINERAL RESOURCE POTENTIAL**
- H/C** Geologic terrane having high mineral resource potential for high-calcium limestone, with certainty level C
 - L/B** Geologic terrane having low resource potential for dry gas (methane), with certainty level B—Applies to entire study area
 - L/C** Geologic terrane having low mineral resource potential for all metals, geothermal energy, and barite in limestone, with certainty level C—Rating for metals and geothermal energy applies to entire study area; rating for barite applies only to areas within heavy dashed line
 - L/D** Geologic terrane having low resource potential for oil, with certainty level D—Applies to entire study area

CORRELATION OF MAP UNITS

Qa	Qc	Ql	Qf	} Holocene	} QUATERNARY
Ogy					
Unconformity				} Pleistocene	}
Tdrp	Tdrh	Tdrh	Tdrh		
Tclp	Tclp	Tclp	Tclp	} Eocene	} TERTIARY
Tcap	Tcap	Tcap	Tcap		
Unconformity				} Middle Pennsylvanian	} PENNSYLVANIAN
IPs	IPmba				
Msu	Msc			} Upper Mississippian	} MISSISSIPPIAN
Ms					
Fault				} Lower Mississippian	}
Mm					

- LIST OF MAP UNITS**
- Qa Alluvium (Holocene)
 - Qc Colluvium (Holocene)
 - Ql Landslide deposits (Holocene)
 - Qf Fan gravel deposits (Holocene)
 - Ogy Younger glacial deposits (Pleistocene)
 - Ogo Older glacial deposits (Pleistocene)
 - Challis Volcanics and related dikes, plugs, and sills (Eocene)
 - Tdrh Hornblende rhyodacite dikes, plugs, and sills—Queried where identification uncertain
 - Tdrp Pyroxene rhyodacite dikes
 - Tprp Pyroxene rhyodacite plug
 - Tclo Oxhornblende latite flow
 - Tclo Oxhornblende latite dike
 - Tclp Pyroxene latite flows
 - Tdhp Pyroxene latite dikes and plugs
 - Tcap Pyroxene potassium-rich andesite flow breccias, interbedded air-fall tuffs, and unbrecciated flows
 - Tdap Pyroxene andesite and rhyodacite plugs and sills
 - Tct Quartz latitic ash-flow tuff
 - Tcs Sandstone and conglomerate with limestone blocks (ls) and interbedded andesite lava flows
 - IPs Snake Canyon Formation, lower part (Middle and Lower Pennsylvanian)
 - IPmba Bluebird Mountain (Lower Pennsylvanian and Upper Mississippian) and Arco Hills (Upper Mississippian) Formations, undivided
 - Msu Surret Canyon Formation (Upper Mississippian)—Queried where identification uncertain
 - Mec South Creek Formation (Upper Mississippian)
 - Ms Scott Peak Formation (Upper Mississippian)
 - Mm McGowan Creek Formation (Lower Mississippian)

- Contact—Dashed where approximately located or inferred
- Fault—Dashed where approximately located or inferred; dotted where concealed
- ▲ Thrust fault—Sawtooth on upper plate
- ⊥ Normal fault—Bar and ball on downthrown side
- ⊥ Anticline—Showing axis; dashed where approximately located or inferred
- ⊥ Syncline—Showing axis; dashed where approximately located or inferred
- Strike and dip of bedding or lava flows
- 35° Inclined
- Vertical
- Overturned
- Estimated
- ⊗ Limestone quarry
- ∩∩∩∩ Vitrophyre zone
- Geochemical sample locality
- As Geochemical sample locality having anomalous arsenic
- Ba Geochemical sample locality having anomalous barium
- ⊠ Limestone sample locality and number
- × 1 Conodont sample locality and number



- 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, GEOLOGY, AND SAMPLE LOCALITIES, BURNT CREEK WILDERNESS STUDY AREA, CUSTER COUNTY, IDAHO