

EXPLANATION OF RESOURCE POTENTIAL

M/B Geologic terrane having moderate resource potential for natural gas with certainty level B, low resource potential for oil and for geothermal sources with certainty level B, and low resource potential for metals, including uranium, with certainty level C—Applies to all parts of wilderness study areas

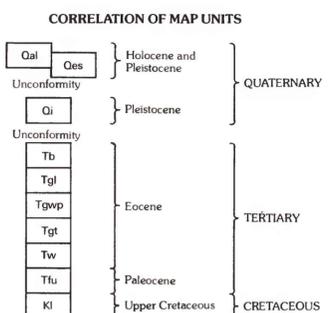
L/B

L/C

M/B Geologic terrane having mineral endowment as above plus moderate resource potential for oil shale with certainty level B—Oil-shale beds in Green River Formation are present in subsurface

L/B

L/C



- LIST OF MAP UNITS**
- Qal Alluvium (Holocene and Pleistocene?)
 - Qes Eolian sand (Holocene and Pleistocene?)
 - Qi Intrusive igneous rock (Pleistocene)
 - Tb Bridger Formation (Eocene)
 - Tgl Laney Member of the Green River Formation (Eocene)
 - Tgwp Wilkins Peak Member of the Green River Formation (Eocene)
 - Tgt Tipton Shale Member of the Green River Formation (Eocene)
 - Tw Wasatch Formation (Eocene)
 - Ttu Fort Union Formation (Paleocene)
 - Kl Lance Formation (Upper Cretaceous)

- Contact—Approximately located; short dashed where concealed
- Fault, steeply dipping—Approximately located; bar and ball on downthrown side; dashed where concealed
- ▲ Thrust fault—Concealed; sawteeth on upper plate
- Strike and dip of inclined beds
- x₃₆ Exposure of coal bed—Number shows thickness of coal, in inches
- 86 Surface opening to coal bed—Number shows thickness of coal, in inches
- ⊙ 1,529 Dry hole discussed in text—Showing total depth; locations of holes 3,300 and 7,997 only approximate

LEVEL OF RESOURCE POTENTIAL	U/A	H/B	H/C	H/D
		HIGH POTENTIAL	HIGH POTENTIAL	HIGH POTENTIAL
		M/B	M/C	M/D
		MODERATE POTENTIAL	MODERATE POTENTIAL	MODERATE POTENTIAL
	L/B	L/C	L/D	
	LOW POTENTIAL	LOW POTENTIAL	LOW POTENTIAL	
	N/D		N/D	
	NO POTENTIAL		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

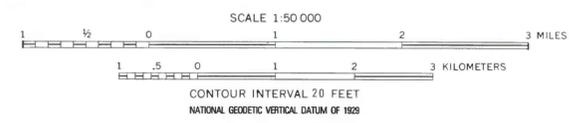
B Data indicate geologic environment and suggest level of resource potential

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 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 these study areas

Base from U.S. Geological Survey, 1:24,000
Boars Tusk, unedited advance print, 1985;
Fifteenmile Spring, 1968; Oxyoke Springs,
unedited advance print, 1985; White Rocks, 1968



WYOMING

Geology mapped on aerial photographs
by A.B. Gibbons, 1988; field checked, 1988

MAP SHOWING IDENTIFIED RESOURCES, MINERAL RESOURCE POTENTIAL, AND GEOLOGY OF THE BUFFALO HUMP AND SAND DUNES ADDITION WILDERNESS STUDY AREAS, SWEETWATER COUNTY, WYOMING