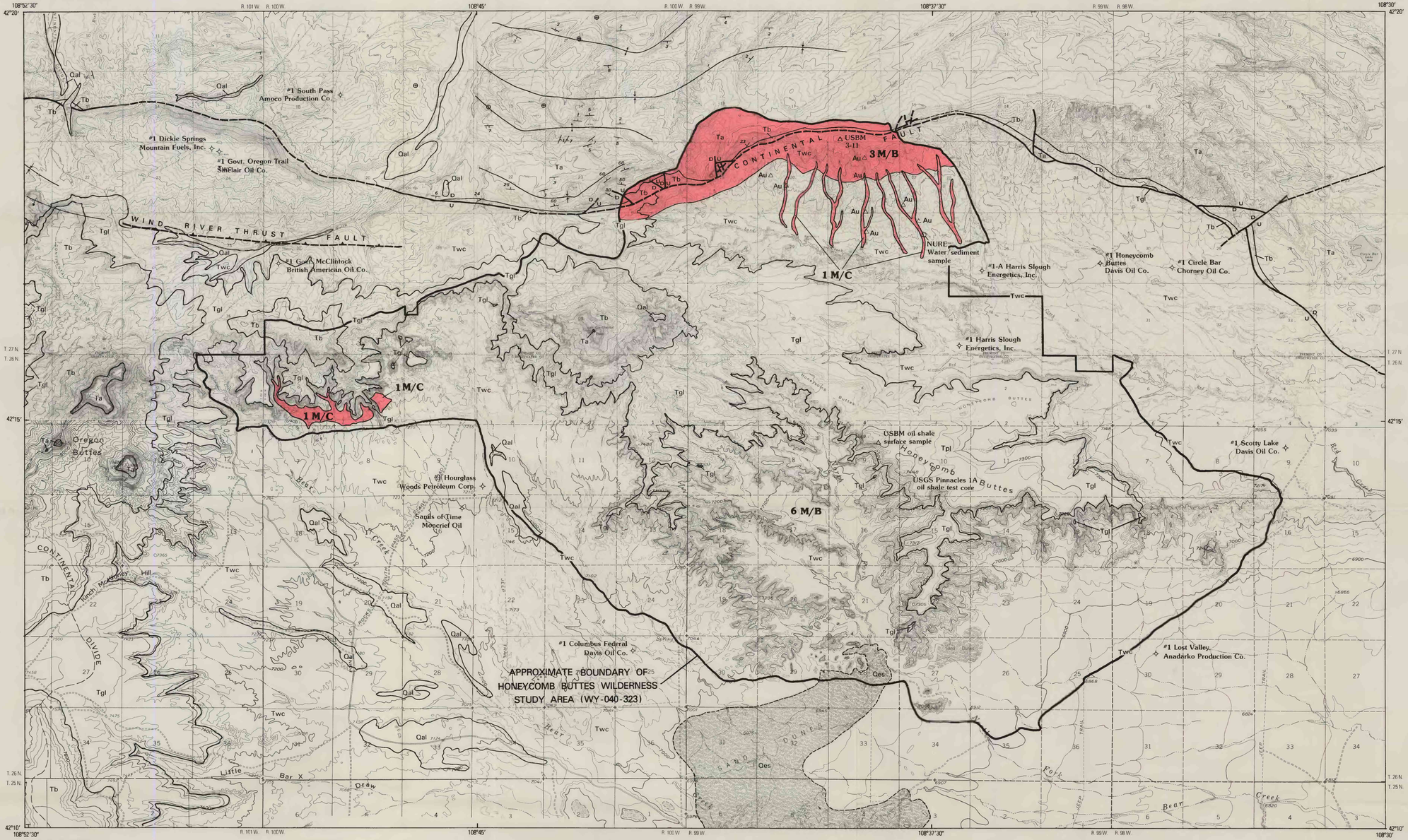
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



Base from U.S. Geological Survey,
Dickie Springs, 1986, 1:24,000; Continental Peak, 1958, 1:24,000;
Circle Bar Lake, 1958, 1:24,000; Freighter Gap, 1958, 1:62,500;
The Pinnacles, 1958; 1:62,500

Geology modified from Zeller and Stephens (1969), Denson and Pipiringos (1974), and Patterson (1986)

SCALE 1:50 000

1 ½ 0 1 2 3 MILES

1 .5 0 1 2 3 KILOMETERS

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

15°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1980

WYOMING

EXPLANATION OF MINERAL RESOURCE POTENTIAL

M/C — Geologic terrane having moderate resource potential for commodity 1 with certainty level C

M/B — Geologic terrane having moderate resource potential for commodity 3 with certainty level B

M/B — Geologic terrane having moderate resource potential for commodity 6 with certainty level B—Applies to subsurface of entire area

Geologic terrane having low resource potential—For commodity 3 (subsurface of entire area) with certainty level B; for commodity 4 (subsurface of entire area) with certainty level C; for commodity 2 (outcrops of Cathedral Bluffs Tongue adjacent to Continental fault) with certainty level C; and for commodity 5 (outcrop of Laney Member of Green River Formation) with certainty level D

Commodities

1. Placer gold of Quaternary age
2. Placer gold of Tertiary age
3. Uranium
4. Coal
5. Oil shale
6. Oil and gas

CORRELATION OF MAP UNITS

Qal	Qes		QUATERNARY
Ta		Miocene	TERTIARY
Tb		Eocene	
Tgl			
Twc			

LIST OF MAP UNITS

Qal	Alluvium (Quaternary)
Qes	Eolian sand (Quaternary)
Ta	Arikaree Formation (Miocene)
Tb	Bridger Formation (Eocene)
Tgl	Laney Member of the Green River Formation (Eocene)
Twc	Cathedral Buttes Tongue of the Wasatch Formation (Eocene)

Contact—Dashed where approximately located

Fault—Dashed where approximately located; U, upthrown side; D, downthrown side

Concealed thrust fault—Sawteeth on upper plate

Anticline

Syncline

Strike and dip of beds

Inclined

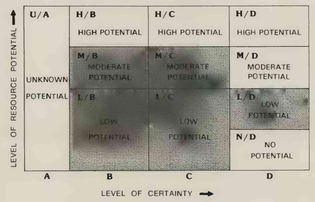
Horizontal

Sample locality for panned stream-sediment sample that contained one or more flakes of gold

USBM sample locality of Eocene conglomerate that contained one or more flakes of gold

Dry hole

Oil shale test hole



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 RESOURCE POTENTIAL AND GEOLOGIC MAP OF THE HONEYCOMB BUTTES WILDERNESS STUDY AREA, FREMONT AND SWEETWATER COUNTIES, WYOMING