SUBECONOMIC COAL RESOURCES, MINERAL RESOURCE POTENTIAL, AND GEOLOGY OF THE MOUNT PENNELL WILDERNESS STUDY AREA, GARFIELD COUNTY, UTAH

EXPLANATION OF MINERAL RESOURCE POTENTIAL

Catastrophic changes have occurred recently in the area, including the following:

1. **Nuclear Power Development**
   - Construction of facilities and infrastructure
   - Production of waste materials
   - Environmental impacts

2. **Oil and Gas Exploration**
   - Drilling and extraction activities
   - Infrastructure development
   - Potential for spills and gas leaks

3. **Water Resources Management**
   - Dams, reservoirs, and irrigation systems
   - Water quality and quantity issues

4. **Recreational Use**
   - Hiking, camping, and other outdoor activities
   - Conservation of natural areas

Exploration of mineral resources in the area has been limited, and current information is based on historical data. Future developments may require further geological and environmental studies to assess their potential impacts.

CORRELATION OF MAP UNITS

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tertiary</td>
<td>Coal-bearing formations</td>
</tr>
<tr>
<td>Jurassic</td>
<td>younger formations</td>
</tr>
<tr>
<td>Cretaceous</td>
<td>oldest formations</td>
</tr>
</tbody>
</table>

DESCRIPTION OF MAP UNITS

- **Gypsum (G)**: Dikes and drapes distributed across the area.
- **Muddy Lenses (M)**: Abundant in the eastern part of the area.
- **Limestone (L)**: Occurs in smaller deposits.
- **Shale (B)**: Extensive in the western region.

LEVELS OF COMPARISON

- **High potential**
- **Medium potential**
- **Low potential**

LEVELS OF CERTAINTY

- **High certainty**
- **Moderate certainty**
- **Low certainty**

Diagrams showing relationships between levels of mineral resource potential and levels of certainty. Shading areas reflect the application in the study area.