The map may be updated by the Geological Survey. This map should not be enlarged or reduced.

**EXPLANATION**

1. **Sections**
   - **Oligocene**
     - Muscovite schist to quartzose granite
     - Unconsolidated red to maroon shale, mudstone, and sandstone
   - **Miocene**
     - Red to maroon shale and siltstone.
     - Interbedded brecciated limestone beds up to 2 ft (0.6 m) thick locally near the Cretaceous-Paleogene boundary.
     - Angles to rounded, sand and gravel. Deposited in present-day conditions.
   - **Pliocene**
     - Pahasapa Limestone
     - Approximately 110-130 ft (33.5-39.6 m) thick.
     - Top of unit contains bright-red interbedded shale and glauconitic siltstone and sandstone. Contains the fossil record of brachiopods.
   - **Lower Cretaceous**
     - Unconsolidated red to maroon shale, mudstone, and sandstone.
     - Red to maroon shale and siltstone.
     - Interbedded brecciated limestone beds up to 2 ft (0.6 m) thick locally near the Cretaceous-Paleogene boundary.

2. **Symbols**
   - **Solid line**
     - Faults
   - **Long dashed**
     - Small anticline
   - **Small anticline**
     - Breccia pipe or sinkhole
   - **Diagonal**
     - Unconsolidated red to maroon shale, mudstone, and sandstone
   - **Red to maroon shale and siltstone.**

3. **Features**
   - **Interbedded brecciated limestone beds up to 2 ft (0.6 m) thick locally near the Cretaceous-Paleogene boundary.**
   - **Angles to rounded, sand and gravel. Deposited in present-day conditions.**
   - **Brachiopods.**
   - **Top of unit contains bright-red interbedded shale and glauconitic siltstone and sandstone. Contains the fossil record of brachiopods.**

4. **Acknowledgments**
   - "Unconsolidated red to maroon shale, mudstone, and sandstone. Deposited in present-day conditions."
   - "Interbedded brecciated limestone beds up to 2 ft (0.6 m) thick locally near the Cretaceous-Paleogene boundary."
   - "Angles to rounded, sand and gravel. Deposited in present-day conditions."
   - "Brachiopods. Top of unit contains bright-red interbedded shale and glauconitic siltstone and sandstone. Contains the fossil record of brachiopods."

5. **Selected References**
   - "Pahasapa Limestone" (Oligocene), "Unconsolidated red to maroon shale, mudstone, and sandstone," "Interbedded brecciated limestone beds up to 2 ft (0.6 m) thick locally near the Cretaceous-Paleogene boundary," "Angles to rounded, sand and gravel. Deposited in present-day conditions."

6. **Diagram**
   - A detailed geologic map of Wind Cave National Park showing various geological features and formations.
   - Legend: Sections, Symbols, Features, Acknowledgments, and Selected References.

7. **Map Credits**
   - Geological Survey of South Dakota
   - Fieldwork and data collection by Brian J. Fagan and others

8. **Image**
   - A high-resolution image of the geologic map of Wind Cave National Park, showing various geological features and formations.