

(Not to Scale)

|                                  |                                   | Color  | Resistant?                          | Layers?                 | Calcareous?                                | Bentonite Beds? | Common Plants  |
|----------------------------------|-----------------------------------|--|-------------------------------------|-------------------------|--|-----------------|--|
| <b>Pierre Shale (lower part)</b> |                                   | Black  | No                                  | Yes (very thin)         | Mostly not                                 | Yes             | Grasses, Yucca, Asters, Sage                                 |
| <b>Niobrara Formation</b>        | <b>Smoky Hill Shale Member</b>    | Weathers light gray at ridge tops; "mustardy" near contact with Pierre Shale.<br>Fresh = very dark gray or black in softer parts | Only at tops of three little ridges | Yes (thin)              | Yes, especially at the 3 little ridge tops | Yes             | Milkvetches<br>Cream Tips<br>Golden Banner<br>Bell's Twinpod |
|                                  | <b>Fort Hays Limestone Member</b> | Weathers off-white<br>Fresh = medium gray  | Yes                                 | Yes (thick)             | Yes!                                       | Mixed in?       | Grasses<br>Shrubs<br>Blue Flax<br>Rough Sunflower            |
|                                  | <b>Codell Sandstone Member</b>    | Medium to dark gray with tan streaks and swirls  | No                                  | No (all mixed together) | Mostly not                                 | Mixed in        | Grasses<br>Wild Onion<br>Gayfeather<br>Cactus                |
| <b>Benton Formation</b>          |                                   |  |                                     |                         |  |                 |  |

**Six Mile Fold Stratigraphy and Cross-Section**

**KEY**

|         |                                 |
|---------|---------------------------------|
|         | Shale/Mudstone                  |
|         | Siltstone                       |
|         | Sandstone                       |
|         | Limestone                       |
|         | Calcareous                      |
| xxxxxxx | Bentonite                       |
|         | Fossils                         |
|         | Trace Fossils (burrows, trails) |
|         | Fractures Visible               |

