Marcellus Shale in West Virginia

With recent drilling it has come to the Survey's attention that Marcellus Shale may exist west of the current 9 thickness line. We will be examining data to determine what changes may be needed to the thickness map.

Explanations

1. **Marcellus Wells**
   A completed Marcellus well has one or more zones in the Marcellus that have been prepared for production-the well may or may not be producing currently; a permitted Marcellus well is one with a Marcellus/Devonian shale or deeper target.

2. **"Marcellus" Thickness**
   "Marcellus" thickness data do not represent the entire thickness of the Marcellus Shale but a subset of it. Specifically, these data represent an interval of organic-rich shale with high gamma-ray readings within the Hamilton Group, as described by Schwietering, WVGES OF17080 (1989).

3. **Onondaga**
   The Onondaga Limestone and equivalent units underlie the Marcellus Shale. The top of the Onondaga and equivalents is approximately equal to the base of the Marcellus.

Legend

- Completed Marcellus Vertical Wells
- Completed Marcellus Deviated Wells
- Permitted Marcellus Wells

"Marcellus" Thickness (Isopach) Contours

- 0 ft. - 20 ft.
- 21 ft. - 40 ft.
- 41 ft. - 60 ft.
- 61 ft. - 80 ft.
- 81 ft. - 100 ft.
- Over 100 ft.
- Possible/Uncertain Marcellus
- Undetermined Thickness
- Marcellus Assumed to be Absent

Onondaga Fold Axis

- Anticline
- Inferred Anticline
- Syncline
- Inferred Syncline
- Marcellus Outcrop

Charleston, WV
State Boundary
County Boundaries
Interstate Highways
U.S. Highways