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 Schweterling, WVGES OF8608 (1980).

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)
- 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

"Marcellus" Thickness (Isopach) Contours
- Thickness Contour (20 ft.)
- Possible/Uncertain Marcellus Shale Present

Onondaga Fold Axis
- Anticline
- Inferred Anticline
- Syncline
- Inferred Syncline
- Marcellus Outcrop

Geology Underlines It All

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Hardy

Hancock

Hampshire

Harrison

Hilton

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Jackson

Jefferson

Kanawha

Kemper

Lewis

Lincoln

Logan

Loganville

Mingo

Monroe

Monongalia

Montgomery

Morgan

Morgan County

Nicholas

Pocahontas

Preston

Putnam

Randolph

Ritchie

Robertson

Rockingham

Roane

Romney

Ruskin

Sandsburg

Scotland

Scott

Shawnee

Shawnee County

Sissonville

Spanish

Summers

Taylor

Tugwaters

Union

Vance

Wayne

Wirt

Wood

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