Coalbed Methane Potential in Osage County, Oklahoma

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Cherokee Shelf Stratigraphy

Nuyaka Creek Shale

Dawson Coal

Lower Cleveland Sandstone

Nowata Shale

Big Lime

Little Osage Shale

Oswego Limestone

Mulky Coal Bed/Excello Shale Breezy Hill Limestone

Prue Sandstone

Bevier

Verdigris Limestone Oakley Shale Croweburg Coal Skinner Sandstone

Mineral

















Osage County Average Daily Gas Production













CONCLUSIONS

- Osage County coals are thin, generally less than
 2 feet thick with occasional seams as thick as 4 feet.
- Gas contents are in line with high-volatile to medium volatile ranks.
- Permeabilities can be high as noted by high producing rates from thin coal seams.
- Structural highs are not the determining factor for high permeabilities.