



EXPLANATION

- 2.54 Location and value of Devonian %R_{0(mean)} sample (this report)—Single asterisk indicates that the sample had an anomalously low value and was not contoured; double asterisk indicates that the sample had an anomalously high value and was not contoured
- (1.70) Location and value of Devonian %R_{0(mean)} sample—Data from Streib (1981). Double asterisk indicates that the sample had an anomalously high value and was not contoured
- Devonian %R_{0(mean)} isograd (this report)—Dashed where inferred; hachured to indicate isograd depression
- Thrust fault—Sawteeth on upper plate
- Gas fields (and, in Ohio only, local oil fields) of the Oriskany Sandstone (Early Devonian)—Data from Flaherty (1996), Harper and Patchen (1996), Opritzka (1996), and Patchen and Harper (1996)
- Oil fields of Late to Middle Devonian age—Locally found in west-central West Virginia and adjoining Ohio. Data from Baranoski and others (1988) and Hohn and Timberlake (1988)
- Shale-gas fields of Late to Middle Devonian age—Data from Hunter and Young (1953), Milici (1993, 1996), and Boswell (1996)

%R_{0(mean)} values for selected wells in Virginia—Increasing depth left to right; mean value used for isograds

A:	1.11, 1.10, 1.14, 1.19, 1.34; mean = 1.18
B:	1.29, 1.31; mean = 1.30
C:	1.37, 1.27; mean = 1.32
D:	1.76, 1.75; mean = 1.75
E:	1.61, 1.91; mean = 1.76
F:	1.92, 1.85, 1.99, 1.92, 1.95, 2.00, 1.90; mean = 1.93
G:	1.42, 1.46; mean = 1.44
H:	1.10, 1.12; mean = 1.11
I:	0.97, 1.03; mean = 1.00
J:	0.97, 1.03; mean = 1.00
L:	0.60, 0.60, 0.62, 0.66; mean = 0.62
M:	1.93, 1.91, 1.98, 1.97; mean = 1.95
N:	1.49, 1.57, 1.64, 1.60; mean = 1.58
P:	2.31, 2.36, 2.50, 2.58, 2.67, 2.66; mean = 2.51
Q:	2.22, 2.25, 2.19; mean = 2.22
R:	2.86, 3.02, 2.91; mean = 2.93
T:	2.45, 2.78, 2.71, 2.89; mean = 2.70

Base from U.S. Geological Survey digital data, 2008
 Albers Equal-Area Conic projection
 Standard parallels 35°00'N and 43°00'N
 Central meridian 87°00'W

Figure 11. Map showing Devonian mean percent vitrinite reflectance (%R_{0(mean)}) isograds superimposed on oil and gas fields in Lower Devonian Oriskany Sandstone and Devonian shale reservoirs.