



- EXPLANATION**
- Tertiary volcanic rock
 - Frontier/Mowry/Muddy/Thermopolis Formations outcrop
 - Precambrian rock
- Vitrinite Reflectance (%R)**
- 2.0+
 - 1.35-2.0
 - 1.1-1.35
 - 0.8-1.1
 - 0.6-0.8
 - <math><0.6</math>
- Bighorn Basin Province boundary
 - Line of section (see fig. 7)
 - High-angle fault
 - Thrust fault—Sawtooth on upper plate
 - 0.6- Contour line—Dashed where estimated. Contour interval varies
 - Well sample point
 - Composite well sample point
 - X Outcrop sample point

Base from U.S. Geological Survey, 2010, 1:2,000,000-scale digital data
Lambert Conformal Conic projection
Standard parallels 41° and 45°; Central meridian -107°30'
Latitude of origin 41°; meters
North American Datum of 1983 (NAD 83)

SCALE 1:500 000
0 10 20 30 40 MILES
0 10 20 30 40 KILOMETERS



Manuscript approved for publication January 16, 2014

Map Showing Variations in Vitrinite Reflectance at the top of the Lower Shaly Member of the Cody Shale, Bighorn Basin, Wyoming and Montana

By
Thomas M. Finn and Mark J. Pawlewicz
2014

Suggested Citation:
Finn, T.M., and Pawlewicz, M.J., 2014. Maps showing thermal maturity of Upper Cretaceous marine shales in the Bighorn Basin, Wyoming and Montana. U.S. Geological Survey Scientific Investigations Map 3285, 14 p., 3 sheets, scale 1:500,000. <http://dx.doi.org/10.3133/si3285>

Any use of trade, product, or firm names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Government.

For more information concerning this publication, contact:
Center Director
USGS Central Energy Resources Science Center
Box 25046, Mail Stop 939
Denver, CO 80225
(303) 226-1647

To learn about the USGS and its information products visit
<http://www.usgs.gov/>
1-888-434-USGS

Or visit the Central Energy Resources Science Center Web site at
<http://energy.usgs.gov/>

ISSN 2209-132X (online)
<http://dx.doi.org/10.3133/si3285>