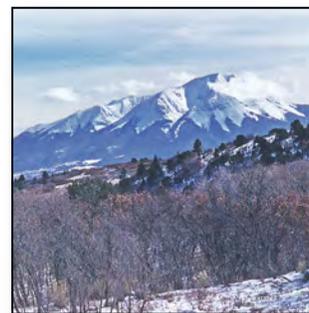


# **Petroleum Systems and Assessment of Undiscovered Oil and Gas in the Raton Basin–Sierra Grande Uplift Province, Colorado and New Mexico—USGS Province 41**



Compiled by Debra K. Higley

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### **Executive Summary—2005 Assessment of Undiscovered Oil and Gas in the Raton Basin–Sierra Grande Uplift Province, Colorado and New Mexico**

By Debra K. Higley, Troy A. Cook, Richard M. Pollastro, Ronald R. Charpentier, Timothy R. Klett, and Christopher J. Schenk

## Chapter 2

### **Petroleum Systems and Assessment of Undiscovered Oil and Gas in the Raton Basin–Sierra Grande Uplift Province, Colorado and New Mexico**

By Debra K. Higley

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### **Tabular Data and Graphical Images in Support of the Assessment of Undiscovered Oil and Gas in the Raton Basin–Sierra Grande Uplift Province, Colorado and New Mexico**

By T.R. Klett and P.A. Le

# Conversion Factors (Approximate) \*

Note: For this assessment, 6,000 cubic feet of gas equals 1 barrel of oil equivalent (BOE).

To convert from	To	Multiply by
<b>Length</b>		
foot (ft)	kilometer (km)	0.000305
foot (ft)	meter (m)	0.305
foot (ft)	mile (mi)	0.000189
kilometer (km)	foot (ft)	3,280
kilometer (km)	mile (mi)	0.621
meter (m)	foot (ft)	3.28
mile (mi)	foot (ft)	5,280
mile (mi)	kilometer (km)	1.61
<b>Area</b>		
sq. kilometer (km <sup>2</sup> )	sq. mile (mi <sup>2</sup> )	0.386
sq. mile (mi <sup>2</sup> )	sq. kilometer (km <sup>2</sup> )	2.59
<b>Weight</b>		
metric ton	ton, short (2,000 lb)	1.10
ton, short (2,000 lb)	metric ton	0.907
<b>Crude oil (based on average specific gravity at standard temperature and pressure)</b>		
barrel (bbl)	metric ton	0.136
barrel (bbl)	ton, short (2,000 lb)	0.150
metric ton	barrel (bbl)	7.33
ton, short (2,000 lb)	barrel (bbl)	6.65

# Conversion Factors (Approximate)—Continued

To convert from	To	Multiply by
<b>Liquid fuels</b>		
barrel (bbl)	cubic meter (m <sup>3</sup> )	0.159
barrel (bbl)	gallon (gal)	42.0
barrel (bbl)	liter (L)	159
cubic meter (m <sup>3</sup> )	barrel (bbl)	6.29
gallon (gal)	barrel (bbl)	0.0238
liter (L)	barrel (bbl)	0.00629
<b>Gaseous fuels</b>		
cubic foot (ft <sup>3</sup> )	cubic meter (m <sup>3</sup> )	0.0283
cubic meter (m <sup>3</sup> )	cubic foot (ft <sup>3</sup> )	35.3
<b>Coproduct ratios</b>		
cubic feet per barrel (ft <sup>3</sup> /bbl or CF/B)	cubic meters per cubic meters (m <sup>3</sup> /m <sup>3</sup> )	0.178
barrel per million cubic feet (bbl/1,000,000 ft <sup>3</sup> or B/MMCF)	cubic centimeters per cubic meter (cm <sup>3</sup> /m <sup>3</sup> )	5.61
cubic meters per cubic meters (m <sup>3</sup> /m <sup>3</sup> )	cubic feet per barrel (ft <sup>3</sup> /bbl or CF/B)	5.61
cubic centimeters per cubic meters (cm <sup>3</sup> /m <sup>3</sup> )	barrel per million cubic feet (bbl/1,000,000 ft <sup>3</sup> or B/MMCF)	0.178
<b>Geothermal gradients</b>		
degree Celsius per 100 meters (°C/100 m)	degree Fahrenheit per 100 feet (°F/100 ft)	0.549
degree Fahrenheit per 100 feet (°F/100 ft)	degree Celsius per 100 meters (°C/100 m)	1.82

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