

Chapter 27

## Conversion Factors (Approximate)

Compiled by T.R. Klett



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Chapter 27 of

### **Petroleum Systems and Geologic Assessment of Oil and Gas in the Southwestern Wyoming Province, Wyoming, Colorado, and Utah**

By USGS Southwestern Wyoming Province Assessment Team

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# Conversion Factors (Approximate)

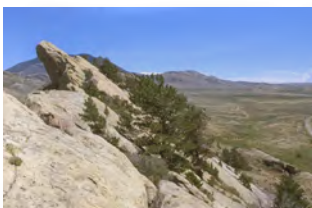
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Note: For this assessment, 6,000 cubic feet of gas equals 1 barrel of oil equivalent (BOE).

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

## 2 Petroleum Systems and Geologic Assessment of Oil and Gas in the Southwestern Wyoming Province, Wyoming, Colorado, and Utah

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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