

## Chapter CF

### ABBREVIATIONS AND ACRONYMS USED IN THIS REPORT

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#### Abbreviations

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<b>bbbl</b>	Barrels
<b>BB</b>	Billion barrels
<b>BBL</b>	Billion barrels of total petroleum liquids; includes crude oil, condensate, and natural gas liquids
<b>BBNGL</b>	Billion barrels of natural gas liquids
<b>BBO</b>	Billion barrels of crude oil
<b>BBOE</b>	Billion barrels of oil equivalent
<b>BCF</b>	Billion cubic feet
<b>BCFG</b>	Billion cubic feet of natural gas
<b>BL</b>	Barrels of total petroleum liquids; includes crude oil, condensate, and natural gas liquids
<b>BNGL</b>	Barrels of natural gas liquids
<b>BO</b>	Barrels of crude oil
<b>BOE</b>	Barrels of oil equivalent
<b>°C</b>	Degree Celsius
<b>CF</b>	Cubic feet
<b>CFG</b>	Cubic feet of natural gas
<b>Cond.</b>	Condensate
<b>Cum.</b>	Cumulative
<b>D</b>	Darcy, darcies
<b>EUR</b>	Estimated ultimate recovery
<b>°F</b>	Degree Fahrenheit
<b>ft</b>	Feet or foot
<b>HI</b>	Hydrogen index
<b>km</b>	Kilometer
<b>LNG</b>	Liquified natural gas

<b>m</b>	Meters or meter
<b>Ma</b>	Million years ago
<b>mD</b>	Millidarcy, millidarcies
<b>mi</b>	Mile
<b>MMB</b>	Million barrels
<b>MMBL</b>	Million barrels of total petroleum liquids; includes crude oil, condensate, and natural gas liquids
<b>MMBNGL</b>	Million barrels of natural gas liquids
<b>MMBO</b>	Million barrels of crude oil
<b>MMBOE</b>	Million barrels of oil equivalent
<b>MMCF</b>	Million cubic feet
<b>MMCFG</b>	Million cubic feet of natural gas
<b>M.Y.</b>	Million years
<b>No.</b>	Number
<b>OI</b>	Oxygen index
<b>Ro</b>	Reflectance of vitrinite in oil
<b>sq.</b>	Square
<b>TAI</b>	Thermal alteration index
<b>TCF</b>	Trillion cubic feet
<b>TCFG</b>	Trillion cubic feet of natural gas
<b>TOC</b>	Total organic carbon
<b>TWT</b>	Two-way travel time
<b>wt.</b>	Weight

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## Acronyms

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<b>AAPG</b>	American Association of Petroleum Geologists
<b>API</b>	American Petroleum Institute
<b>AU</b>	Assessment unit
<b>EIA</b>	Energy Information Administration
<b>EUR</b>	Estimated ultimate recovery
<b>FSU</b>	Former Soviet Union
<b>GIS</b>	Geographic information system
<b>GOR</b>	Gas to oil ratio
<b>IEA</b>	International Energy Agency
<b>LGR</b>	Liquids to gas ratio
<b>MMS</b>	Minerals Management Service
<b>NGL</b>	Natural gas liquids
<b>OECD</b>	Organization for Economic Cooperation and Development
<b>OGIFF</b>	Oil and gas integrated field file
<b>OPEC</b>	Organization of Petroleum Exporting Countries; includes Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates (UAE), and Venezuela
<b>SEG</b>	Society of Exploration Geophysicists
<b>TPS</b>	Total petroleum system
<b>UAE</b>	United Arab Emirates; includes Abu Dhabi, Ajman, Dubai, Fujairah, Ras al Khaimah, Sharjah, and Umm al Qaiwain
<b>US or USA</b>	United States of America
<b>USGS</b>	United States Geological Survey

## CONVERSION FACTORS (Approximate)

[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)	3280
kilometer (km)	mile (mi)	0.621
meter (m)	foot (ft)	3.28
mile (mi)	foot (ft)	5280
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 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

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**Liquid Fuels**

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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

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**Gaseous Fuels**

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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

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**Coproduct Ratios**

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cubic feet per barrel (ft <sup>3</sup> /bbl or CFG/BO)	cubic meters per cubic meters (m <sup>3</sup> /m <sup>3</sup> )	0.178
barrel per million cubic feet (bbl/ft <sup>3</sup> or BL/MMCFG)	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 CFG/BO)	5.61
cubic centimeters per cubic meters (cm <sup>3</sup> /m <sup>3</sup> )	barrel per million cubic feet (bbl/ft <sup>3</sup> or BL/MMCFG)	0.178

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**Geothermal Gradients**

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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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