

*National Assessment of Oil and Gas Project:*

# **Total Petroleum Systems and Geologic Assessment of Undiscovered Oil and Gas Resources in the San Juan Basin Province, Exclusive of Paleozoic Rocks, New Mexico and Colorado**



*Click here to return to*  
**Main Contents**

Chapter 1

## **Executive Summary—2002 Assessment of Undiscovered Oil and Gas Resources in the San Juan Basin Province, Exclusive of Paleozoic Rocks, New Mexico and Colorado**

By U.S. Geological Survey San Juan Basin Assessment Team

Chapter 2

## **Introduction to the 2002 Geologic Assessment of Undiscovered Oil and Gas Resources in the San Juan Basin Province, Exclusive of Paleozoic Rocks**

By U.S. Geological Survey San Juan Basin Assessment Team

Chapter 3

## **Geology and Oil and Gas Assessment of the Todilto Total Petroleum System, San Juan Basin Province, New Mexico and Colorado**

By J.L. Ridgley and J.R. Hatch

Chapter 4

## **Geology and Oil and Gas Assessment of the Mancos-Menefee Composite Total Petroleum System, San Juan Basin, New Mexico and Colorado**

By J.L. Ridgley, S.M. Condon, and J.R. Hatch

Chapter 5

## **Geology, Sequence Stratigraphy, and Oil and Gas Assessment of the Lewis Shale Total Petroleum System, San Juan Basin, New Mexico and Colorado**

By R.F. Dubiel

Chapter 6

## **Geology and Oil and Gas Assessment of the Fruitland Total Petroleum System, San Juan Basin, New Mexico and Colorado**

By J.L. Ridgley, S.M. Condon, and J.R. Hatch

Chapter 7

## **Tabular Data and Graphical Images in Support of the U.S. Geological Survey National Oil and Gas Assessment—San Juan Basin Province (5022)**

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

Digital Data Series 69—F

**U.S. Department of the Interior**  
**U.S. Geological Survey**

## Plates

1. South-north cross section showing correlation of reservoir units in the Mancos Shale on the east side of the San Juan Basin, New Mexico .....[included with report]
2. West-east cross section showing correlation of reservoir units in the Mancos Shale in the eastern part of the San Juan Basin, New Mexico .....[included with report]
3. Reproduction of preliminary structure contour map on the base of the Cretaceous Dakota Sandstone, San Juan Basin of Thaden and Zech (1984) .....[included with report]

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## Conversion Factors

Multiply	By	To obtain
Length		
inch (in.)	2.54	centimeter (cm)
foot (ft)	0.3048	meter (m)
foot (ft)	0.000305	kilometer (km)
foot (ft)	0.000189	mile (mi)
kilometer (km)	3,281	foot (m)
kilometer (km)	0.621	mile (mi)
meter (m)	3.281	foot (ft)
mile (mi)	5,280	foot (ft)
mile (mi)	1.61	kilometer (km)
Area		
sq. kilometer (km <sup>2</sup> )	0.386	sq. mile (mi <sup>2</sup> )
sq. mile (mi <sup>2</sup> )	2.59	sq. kilometer (km <sup>2</sup> )
Weight		
metric ton	1.10	ton, short (2,000 lb.)
ton, short (2,000 lb.)	0.907	metric ton
Liquid fuels		
barrel (bbl)	0.159	cubic meter (m <sup>3</sup> )
barrel (bbl)	42.0	gallon (gal)
barrel (bbl)	159	liter (L)
cubic meter (m <sup>3</sup> )	6.29	barrel (bbl)
gallon (gal)	0.0238	barrel (bbl)
liter (L)	0.00629	barrel (bbl)
Gaseous fuels		
cubic foot (ft <sup>3</sup> )	0.0283	cubic meter (m <sup>3</sup> )
cubic meter (m <sup>3</sup> )	35.3	cubic foot (ft <sup>3</sup> )
Coproduct ratios		
cubic feet per barrel (ft <sup>3</sup> /bbl or CF/B)	0.178	cubic meters per cubic meters (m <sup>3</sup> /m <sup>3</sup> )
barrel per million cubic feet (bbl/1,000,000 ft <sup>3</sup> or B/MMCF)	5.61	cubic centimeters per cubic meter (cm <sup>3</sup> /m <sup>3</sup> )
cubic meters per cubic meters (m <sup>3</sup> /m <sup>3</sup> )	5.61	cubic feet per barrel (ft <sup>3</sup> /bbl or CF/B)