

**U.S. Geological Survey**  
**Digital Data Series DDS-69-0**

*National Oil and Gas Assessment Project:*

**Geologic Assessment of Undiscovered Gas Resources of  
the Eastern Oregon and Washington Province**

By USGS Eastern Oregon and Washington Province Assessment Team

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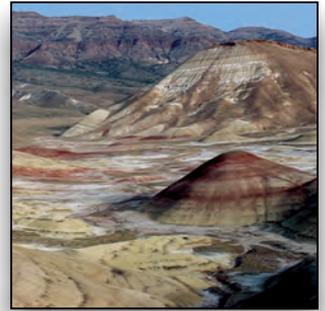
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**Introduction**

The purpose of the U.S. Geological Survey's (USGS) National Oil and Gas Assessment is to develop geology-based hypotheses regarding the potential for additions to oil and gas reserves in priority areas of the United States, focusing on the distribution, quantity, and availability of oil and natural gas resources. The USGS has completed an assessment of the undiscovered oil and gas potential of the Eastern Oregon and Washington Province of Oregon and Washington (USGS Province 5005). The province is a priority Energy Policy and Conservation Act (EPCA) province for the National Assessment because of its potential for oil and gas resources.

The assessment of this province is based on geologic principles and uses the total petroleum system concept. The geologic elements of a total petroleum system include hydrocarbon source rocks (source rock maturation, hydrocarbon generation and migration), reservoir rocks (stratigraphy, sedimentology, petrophysical properties), and hydrocarbon traps (trap formation and timing). In the Eastern Oregon and Washington Province, the USGS used this geologic framework to define one total petroleum system and two assessment units within the total petroleum system, and quantitatively estimated the undiscovered gas resources within each assessment unit.



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## Contact Information

This volume is one of a series of products resulting from the National Oil and Gas Assessment project of the U.S. Geological Survey. Inquiries about this CD-ROM or the project should be addressed to:

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## Using This CD

The descriptive and interpretive text chapters of this volume are in PDF format. Use Acrobat Reader 7.0 (installer for Mac and Windows provided on this CD-ROM) to access and bring up these chapters.

Contained on this CD-ROM are tabular data and graphical images in support of the assessment. Chapter three contains tabular data and graphical images in support of the Eastern Oregon and Washington Province assessment. The chapter text PDF contains links to the data and images. Data-table files are presented as tab-delimited text files (.tab files), usable in spreadsheet and database software. Graphical and summary-table files are presented as portable document format files (.pdf files).

The USGS Central Energy Resources Team has developed an Internet Map Service to deliver the GIS data to the public. The spatial data that formed the basis of the GIS are provided online at the USGS National Oil and Gas Assessment Web site (NOGA Online: <http://energy.cr.usgs.gov/oilgas/noga>) and are also contained on this CD-ROM in the spatial folder. GIS information is presented in the Spatial folder and its subdirectories that contain the spatial data, documentation, and export files. The Spatial\Doc folder contains metadata for the Eastern Oregon and Washington Province spatial data in .htm format. The Spatial\Export folder contains Arc\Info export files (.e00). The Spatial\Shape

folder contains ArcView\ArcGIS shapefiles used in the GIS project. Most of the base cartographic data layers used in the GIS project were obtained from the U.S. Department of the Interior National Atlas Web site, [www.nationalatlas.gov](http://www.nationalatlas.gov) or the U.S. Geological Survey National Map, <http://\nmviewogc.cr.usgs.gov\viewer.htm>.

## **Contents of This CD-ROM**

When the CD-ROM is opened, the following folders appear on the screen:

ACROBAT—contains installer for Acrobat Reader 7.0.

OPEN\_FIRST—from OPEN\_FIRST.pdf in this folder, navigate to the ReadMe file, an executive summary, pages of chapter titles, and the GIS data and metadata.

READ\_ME—you can access the ReadMe file from this folder also.

REPORTS—listing of, and links to, the chapters, plus the tabular data.

SPATIAL—folder containing files for the GIS data and metadata.

There are several routes to the information in this volume.

## **System Requirements**

### **MAC OS X**

#### **Adobe Reader 7**

- Power PC G3, G4, G5 processor
- Mac OS X v.10.2.8 or 10.3
- 128 MB of RAM
- 80 MB of available hard disk space (110 MB required for the full version)
- 800 x 600 screen resolution

### **WINDOWS**

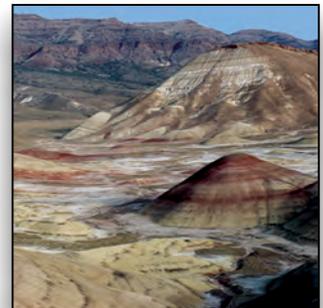
#### **Adobe Reader 7.0 MS Windows**

- Intel Pentium-class processor
- Windows XP Professional or Home Edition with SP1 or SP2, or Tablet

### **PC Edition**

- Microsoft Windows 2000 with Service Pack 2 (SP2)
- 128 MB of RAM
- 90 MB of available hard-disk space for the full version
- 800 x 600 monitor resolution

Note: Installers for Acrobat Reader 7.0 for Macintosh and Windows platforms are provided on this CD-ROM.



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