



TGI II Hydrocarbon Assessment Compilation

by M.P.B. Nicolas¹ and J. Coolican²

Digital compilation by P.G. Lenton¹

¹ Manitoba Science, Technology, Energy and Mines

² Saskatchewan Ministry of Energy and Resources

INTRODUCTION

The Hydrocarbon Assessment Compilation for the TGI II is a compilation of several datasets related to oil and gas accumulations for the entire TGI II area. It is comprised of eight different layers of information, including oil field boundaries, oil pool boundaries, oil unit boundaries, reserves information, core listings, drill stem test (DST) listing, oil and gas shows, and geochemistry data. These layers can be viewed using the TGI II Hydrocarbon Assessment Compilation (HAC) Map. The HAC Map includes two additional layers of information: (1) a layer with all the wells used for the creation of the TGI maps, and (2) a layer with the outcrop geology using the formation distribution and edges of all the units mapped for the TGI II project stacked one on top of the other. Note this is not a true representation of the outcrop geology, as the TGI project excluded formations younger than the Belly River Formation in Saskatchewan or the Odanah Member of the Pierre Shale in Manitoba. Included in this download are two additional folders (1) shapes.zip and (2) Excel.zip. The former includes all the individual shapefiles used to create the map so that it can be used as individual entities, and the latter includes Microsoft Excel® tables of data, including reserves information.

DOWNLOAD DETAILS

HAC_2008 Map Project

This electronic map presents the TGI II Hydrocarbon Assessment Compilation in a ArcMap/ArcReader project for use with ESRI® ArcGIS software. As well as the oil and gas related layers listed here the project also contains cultural infrastructure layers, base map data and a digital elevation model layer derived from SRTM version 2.

HAC map download file name:

TGI_II_HAC_2008.zip

HAC MAP DATA FILES

HAC Map data files are included in the TGI_II_HAC_2008 download. These include shapefiles and Excel data tables, and can be found in the shapes.zip and Excel.zip folders. Below is a synopsis of the technical data available in these folders, the latest date of the data at the time of compilation (date of data), and the corresponding file names.

Field and Pool Boundaries

The field and pool layers show the oil field and oil pool boundaries for southwestern Manitoba, and Saskatchewan east of 106° longitude.

Date of data: January 2008 for Manitoba; June 2008 for Saskatchewan.

Data file names:

MB_Oil_Fields_2008.shp
MB_Oil_Pools_2008.shp
SK_Oil_Pools_June2008.shp

Unit Boundaries

The unit layers show the unit boundaries for southwestern Manitoba, and Saskatchewan east of 106° longitude.

Date of data: December 2007 for Manitoba; June 2008 for Saskatchewan.

Data file names:

MB_Units_2007.shp
SK_Units_June2008.shp

Core

The core layers are a list of all available core southwestern Manitoba, and Saskatchewan east of 106° longitude.

Date of data: September 2007 for Manitoba; February 2007 for Saskatchewan.

Data file names:

MB_Core_Sept_2007.xls
MB_Core_Sept_2007.shp
SK_Core_Feb_2007.xls
SK_Core_Feb_2007.shp

Drill Stem Tests

The drill stem test (DST) layers show all the DSTs that were done in southwestern Manitoba, and Saskatchewan east of 106° longitude.

Date of data: October 2007 for Manitoba; January 2007 for Saskatchewan.

Data file names:

MB_DST_Oct2007.xls
MB_DST_Oct2007.shp
SK_DST_Jan2007.xls
SK_DST_Jan2007.shp

Oil and Gas Shows

The oil and gas shows layer is a compilation of oil and gas shows as reported in DSTs, core descriptions, literature and industry geological reports. This layer is only available for southwestern Manitoba. This list of shows is not meant to be a complete listing of all oil and gas shows in Manitoba, but simply a compilation over time taken by government geologists. This listing includes only wells that were not capable of production at the time of compilation. The oil and gas shows layers are separated by age. The Mesozoic and Cenozoic shows are on the Mesozoic shows layer (MB_Mesozoic_Shows); the Mississippian shows are on the Mississippian layer (MB_Miss_Shows); and the Devonian to Cambrian shows on the Lower Paleozoic layer (MB_L_Paleo_Shows).

Date of data: December 2004

Data file names:

MB_Mesozoic_Shows.xls
MB_Mesozoic_Shows.shp
MB_Miss_Shows.xls
MB_Miss_Shows.shp
MB_L_Paleo_Shows.xls
MB_L_Paleo_Shows.shp

Geochemistry Data (Rock Eval & TOC)

The geochemistry data is a compilation of Rock-Eval and total organic carbon (TOC) data from various sources, including GSC open file reports, Petroleum Technology Research Centre (PTRC) publications, and Manitoba Geological Survey in-house data for southwestern Manitoba, and Saskatchewan east of 106° longitude.

Date of data: June 2008

Data file names:

SK_MB_TOC_Data.xls

SK_MB_TOC_Data.shp
MB_TOC.xls
MB_TOC.shp

Reserves Information

The reserves information provides the oil reserves information for southwestern Manitoba, and Saskatchewan east of 106° longitude. This information is available only in Excel format, and is not shown on the interactive map.

Date of data: December 31, 2002 for Manitoba; December 31, 2004 for Saskatchewan.

Data file names:

MB_Oil_Reserves_2002.xls
SK_Oil_Reserves_2004.xls

DISCLAIMER

Although the TGI II Williston Basin partners have exercised all reasonable care in the compilation, interpretation and production of the information contained herein, it is not possible to ensure total accuracy, and all persons who rely on the information contained herein do so at their own risk. The TGI II Williston Basin partners do not accept liability for any errors, omissions or inaccuracies that may be included in, or derived from this information. This material is provided without warranty of any kind. The TGI II Williston Basin partners shall not be liable for any direct, indirect, consequential or other damages resulting from the use of or inability to use this product.

PUBLISHING AND CONTACT INFORMATION

© Queen's Printer for Manitoba, 2008.

Manitoba Science, Technology, Energy and Mines does not assume any liability for errors that may occur. Any digital data are supplied on the understanding that they are for the sole use of the licensee, and will not be redistributed in any form, in whole or in part, to third parties. Any references to proprietary software in the documentation and/or any use of proprietary data formats in this release do not constitute endorsement by Manitoba Science, Technology, Energy and Mines of any manufacturer's product.

When using information from this publication in other publications or presentations, due acknowledgment should be given to the Manitoba Geological Survey. The following reference is recommended for this digital release:

Nicolas, M.P.B. and Coolican, J. 2008: TGI II hydrocarbon Assessment Compilation;
Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey,
digital release only available at URL <http://www.WillistonTGI.com>

Keywords: Williston Basin; Western Canada Sedimentary Basin; oil well; Targeted
Geoscience Initiative II; cores; drill stem test; oil and gas; lithostratigraphy; Manitoba;
Saskatchewan

Published 2008 by:
Manitoba Science, Technology, Energy and Mines
Manitoba Geological Survey
360-1395 Ellice Avenue
Winnipeg, Manitoba
R3G 3P2 Canada

Tel: (800) 223-5215 (General Enquiry)
Tel: (204) 945-4154 (Publication Sales)
Fax: (204) 945-8427
E-mail: minesinfo@gov.mb.ca
Website: <http://www.manitoba.ca/minerals>