

# **ReadMe file to accompany TGI II Hydrocarbon Assessment Compilation**

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## **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 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 presentation includes 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.

## **CONTENTS**

This ZIP file contains:

1. An interactive GIS map (HAC\_2008.pmf) showing the distribution of oil and gas wells used in compiling the TGI II Williston Basin hydrocarbon assessment.
2. ESRI® file geodatabase (Hydrocarbon\_Assessment.gdb) containing all the data layers used for this project. All map themes are presented in Transverse Mercator projection with a central meridian of 101° and datum of North American Datum 1983.
3. ESRI® shapefiles of all the themes used in the construction of the GIS map (shapes.zip). All shape files and Geotiff images are presented in Transverse Mercator projection with a central meridian of 101° and datum of North American Datum 1983.
4. Microsoft Excel ® tables of some of the technical data used in the construction of the GIS map, in addition to technical data not presented on the map (Excel.zip).
5. HAC\_Intro\_Text.pdf file with introductory comments on the HAC map and details on the technical data used to build the map.
6. This HAC\_ReadMe.pdf file of the project contents and instructions for use.

## **Files**

In the root directory:

**HAC\_ReadMe.pdf** – this file

**HAC\_2008.mxd** – project file for use with ArcGIS™ ArcMap™ software to view and work with all GIS files for this project.

**HAC\_2008.pmf** – project file for use with ArcReader™ software to view and work with all GIS files for this project.

**Sources.zip** – ZIP file containing shape files of the project themes for use in other GIS software

## **Folders**

**\HydrocarbonAssessment.gdb** – file geodatabase with all the data used in the HAC\_2008 presentation

## **REQUIREMENTS**

**The software needed to use this presentation requires a computer running either Microsoft® Windows 2000, Windows XP or Windows Vista.**

The interactive map was created using ESRI® ArcMap™ version 9.3 and published using ArcPublisher™ version 9.3. Viewing the published map file (HAC\_2008.pmf) requires either ArcMap™ 9.3 or newer or the free viewer ArcReader™ 9.3 which can be downloaded from ESRI® at <http://www.esri.com>.

The documents in this file in Adobe® Portable Document Format (PDF) require Adobe® Acrobat® Reader version 5 or newer for viewing and printing. The free reader can be downloaded from Adobe® at <http://www.adobe.com>.

## **ACCESSING AND USING THE INTERACTIVE MAP**

The interactive map can be started either by double-clicking the HAC\_2008.pmf file or by starting ArcReader™ or ArcMap™ and using the Open command on the .pmf file. The HAC\_2008.mxd file is included for the convenience of ArcMap™ users.

The layer names are descriptive of their content. All of the layers in the Table of Contents are group layers that can be expanded and individual layers turned off or on, or the group turned off or on entirely.

## Layer themes

Group Name	Layer Name	Description
<b>Map Boundary</b>		
	neatline	Limit of the TGI II project
	MB-SK border	Provincial border
<b>Core Listing</b>		
	MB_Core_Sept_2007	List of all available core for southwestern Manitoba
	Sk_Core_Feb_2007	List of all available core for Saskatchewan east of 106° longitude
<b>Drill Stem Tests</b>		
	MB-DST_Oct_2007	List of all available Drill Stem Tests (DST) for southwestern Manitoba
	SK_DST_Jan_2007	List of all available Drill Stem Tests (DST) for Saskatchewan east of 106° longitude
<b>Manitoba Oil and Gas Shows</b>	<i>* see below</i>	
	MB_Mesozoic_Shows	Manitoba Mesozoic oil and gas shows
	MB_Miss_Shows	Manitoba Mississippian oil and gas shows
	MB_L_Paleo_Shows	Manitoba lower Paleozoic oil and gas shows
<b>Rock Eval TOC</b>	<i>** see below</i>	
	Manitoba TOC	
	Saskatchewan TOC	
<b>Wells</b>		
	MB_Strat_Minex_Wells	MB stratigraphic drilling and mineral exploration drill holes
	All_MB_Wells	All Manitoba wells in the TGI II project area
	All_SK_Wells	All Saskatchewan wells in the TGI II project area
<b>Infrastructure</b>		
	Towns	Select town and village locations
	Roads	Highways and Provincial roads
	Parks (MB and SK)	Federal and Provincial parks
<b>Unit Boundaries</b>		
	MB_Units_2007	Unit boundaries for southwestern Manitoba
	SK_Units_June2008	Unit boundaries for Saskatchewan east of 106° longitude
<b>Oil Fields &amp; Oil Pools</b>		
	MB_Oil_Pools_2008	
	MB_Oil_Fields_2008	
	SK_Oil_Pools_June2008	
<b>Hydrography</b>		
	Hydrography	1:1,000,000 scale hydrography
	Lakes	1:1,000,000 scale lake polygons
<b>Township grid</b>		
	Saskatchewan	Saskatchewan provincial township grid
	Manitoba	Manitoba provincial township grid
<b>Digital Elevation Model</b>		
	Hillshade	Hillshade from azimuth 045°, elevation 40°
	Colour DEM	SRTM v2 digital elevation data
<b>TGI-mapped formations</b>	<i>See Introduction</i>	
	Formation contacts	
	TGI_mapped formations	

### \* 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 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).

## **\*\* 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.

## **DISCLAIMER:**

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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:

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