



19th Williston Basin Petroleum Conference

Manitoba 2010-11 Oil Activity Review

Regina, Saskatchewan

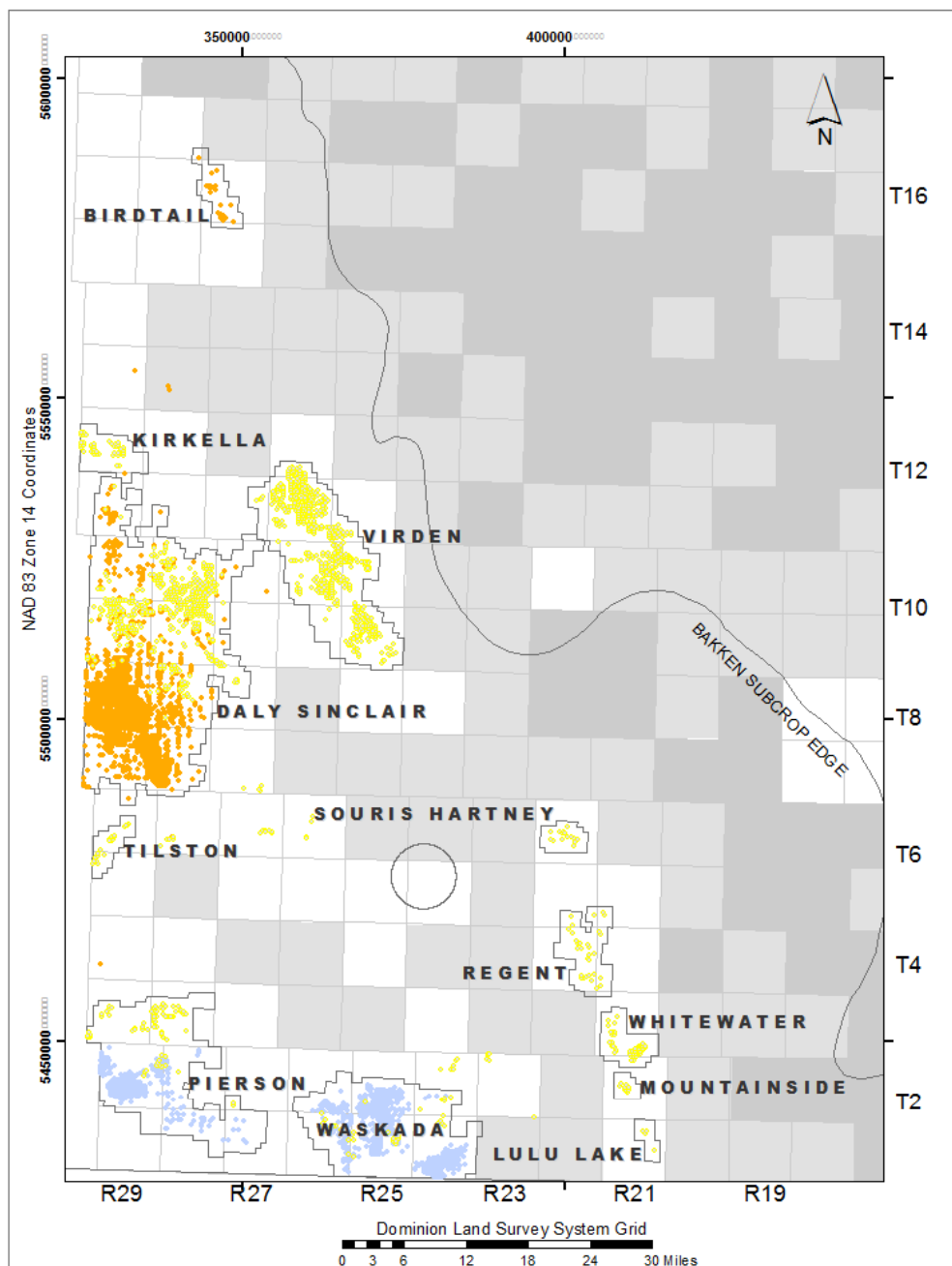
May 1-3, 2011

Manitoba 

Record Breaking Year

- **Manitoba 2010-11 Oil Activity**
- **Bakken – Three Forks Play**
- **Lower Amaranth (Spearfish) Play**
- **Department Initiatives**

MANITOBA OIL FIELD MAP

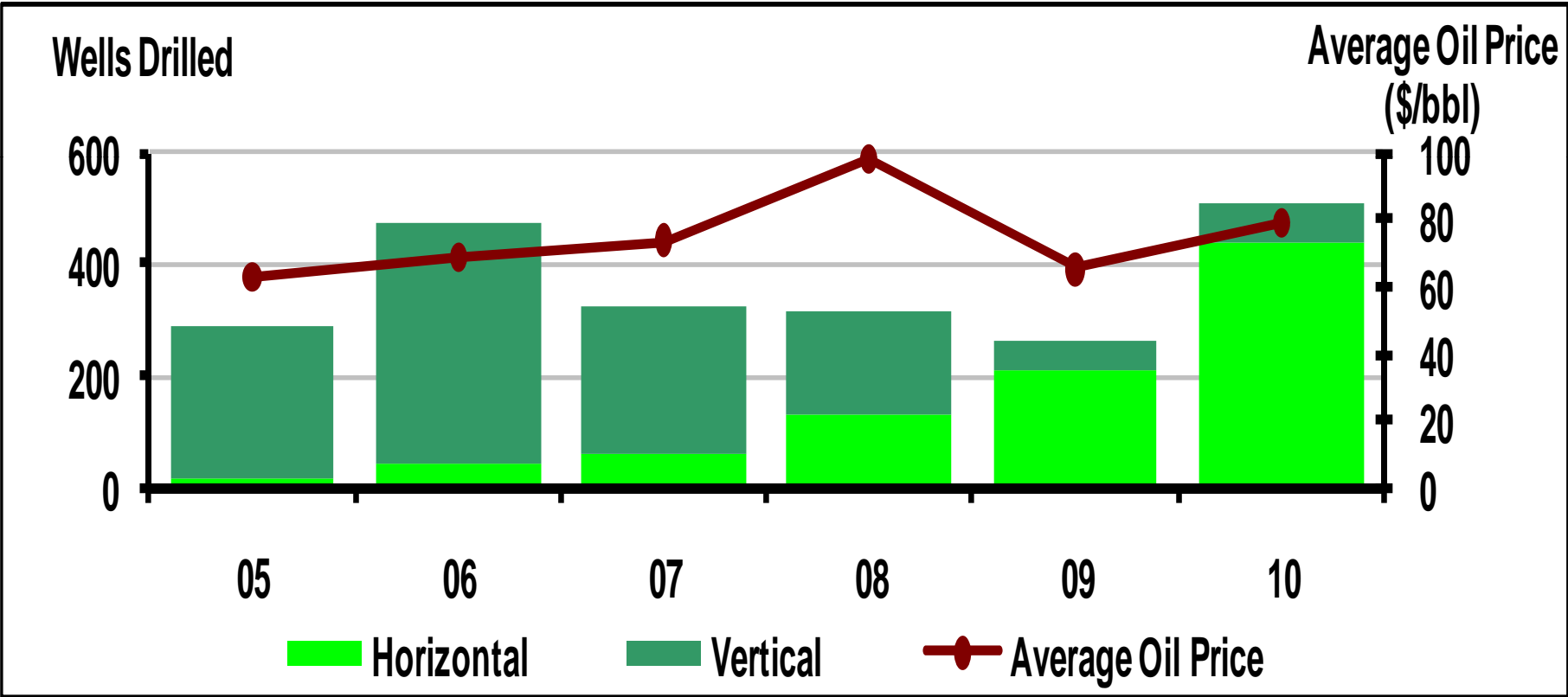


- Legend**
- >6 wells drilled per Township
 - 1-5 wells drilled per Township
 - 0 wells drilled per Township
 - Oil field boundaries
 - Present & past producing oil wells (Colour corresponds to Strat. Column)

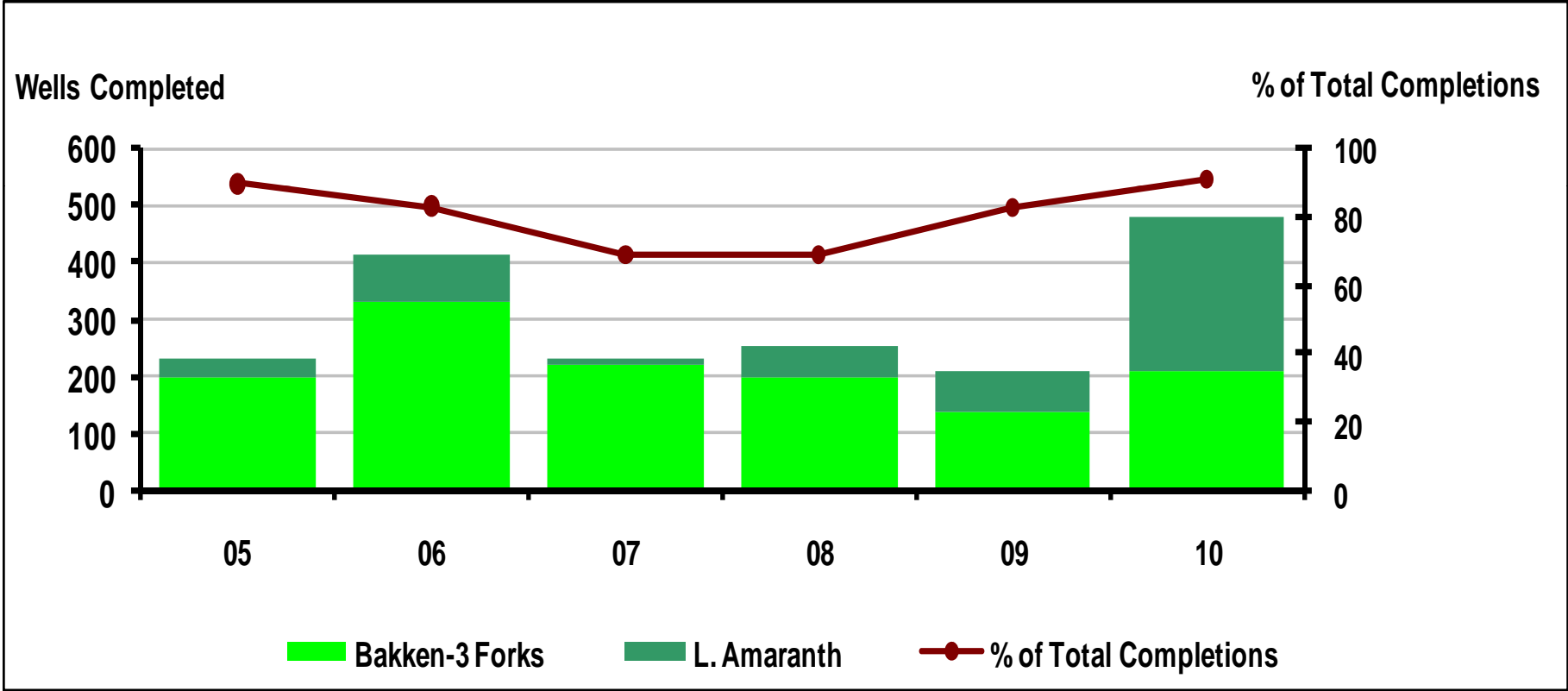
Period	Formation
Quaternary	Glacial drift
Tertiary	Turtle Mountain
Cretaceous	Boissevain
	Pierre Shale*
	Carlile*
	Favel*
	Ashville*
	Swan River*
Jurassic	Success
	Waskada
	Melita*
	Reston
Triassic	Upper Amaranth
	Lower Amaranth*
Permian	St. Martin
Pennsylvanian	Complex
	Charles
Mississippian	Mission Canyon*
	Lodgepole*
	Bakken*
Devonian	Three Forks*
	Birdbear*
	Duperow*
	Souris River*
	Dawson Bay*
	Prairie Evaporite
	Winnepegosis*
	Elm Point
Ashern	
Silurian	Interlake Group*
Ordovician	Stonewall
	Stony Mountain*
	Red River*
	Winnipeg*
Cambrian	Deadwood
Precambrian	

• Producing Oil
* Oil Shows

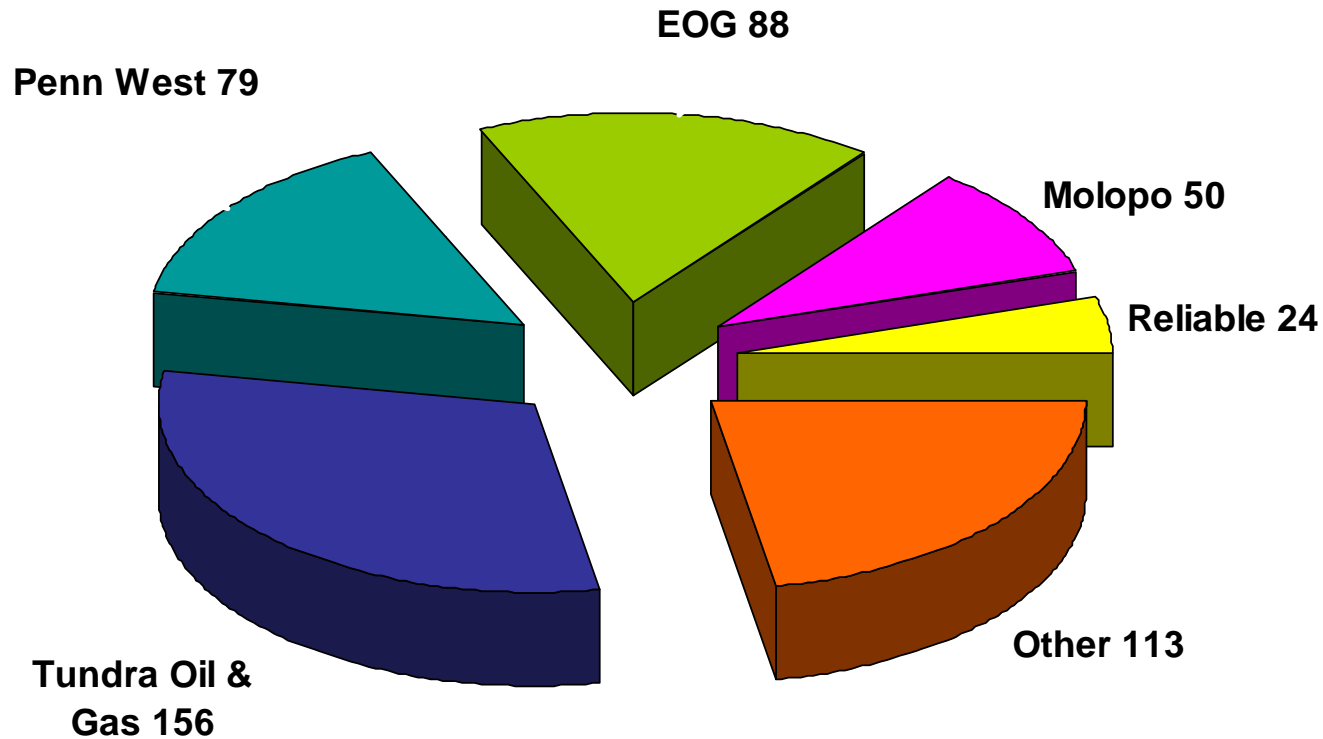
Manitoba Drilling Activity



Manitoba Completion Activity

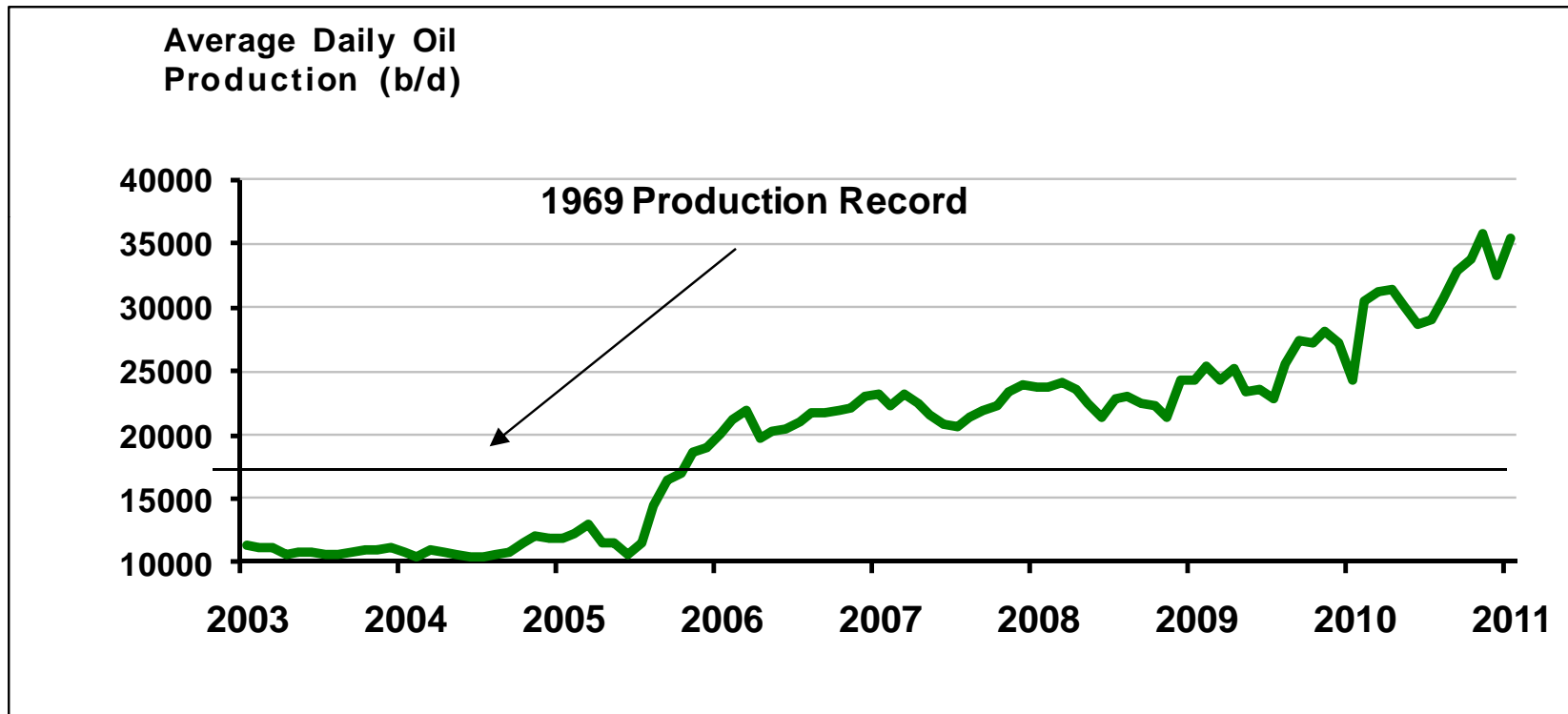


Manitoba's Top Drillers – 2010

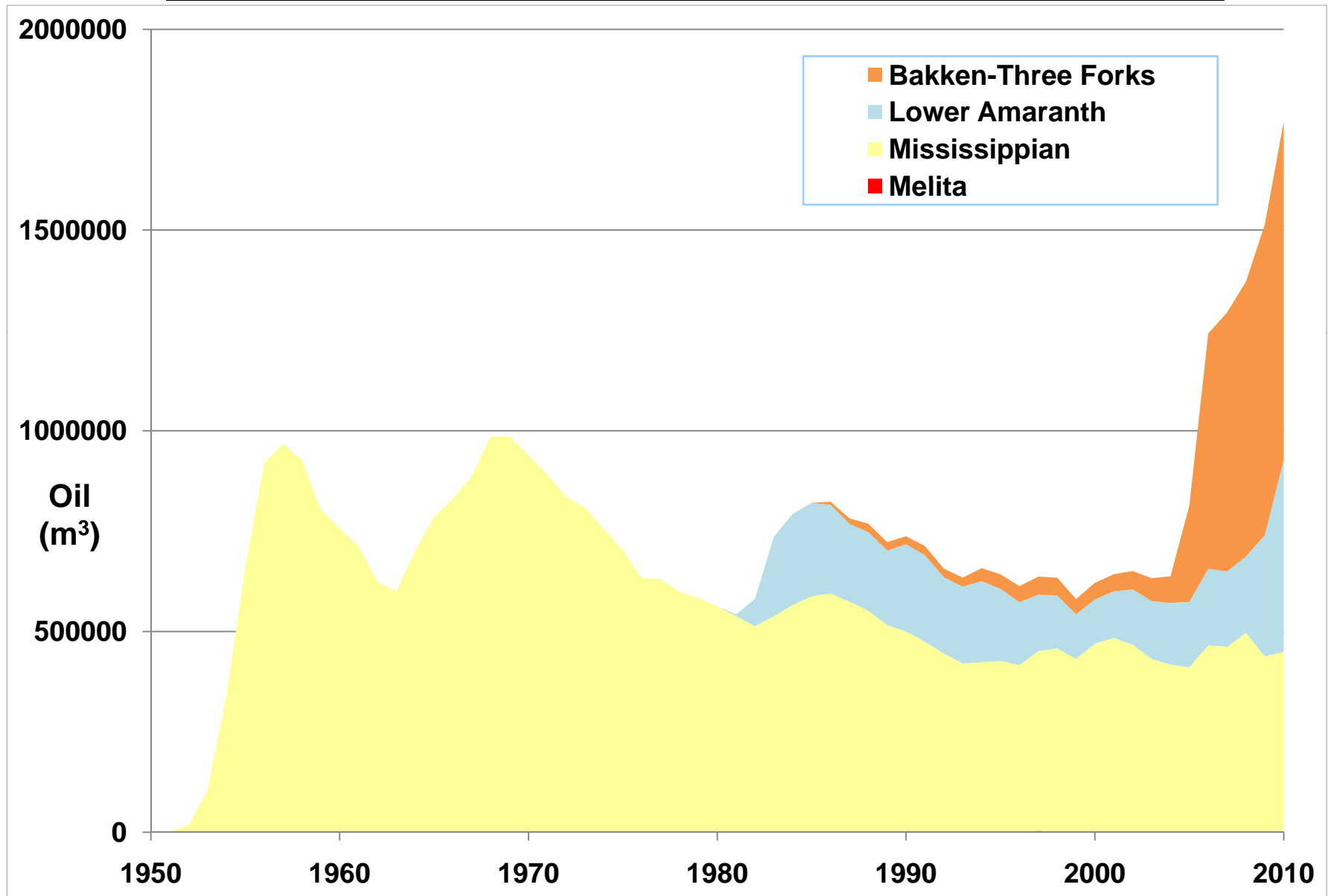


510 wells drilled by 32 different companies

Manitoba Daily Oil Production



OIL PRODUCTION BY FORMATION



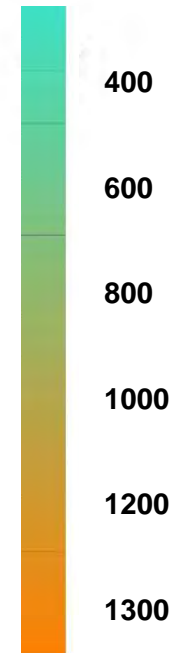
BAKKEN -THREE FORKS PRODUCERS



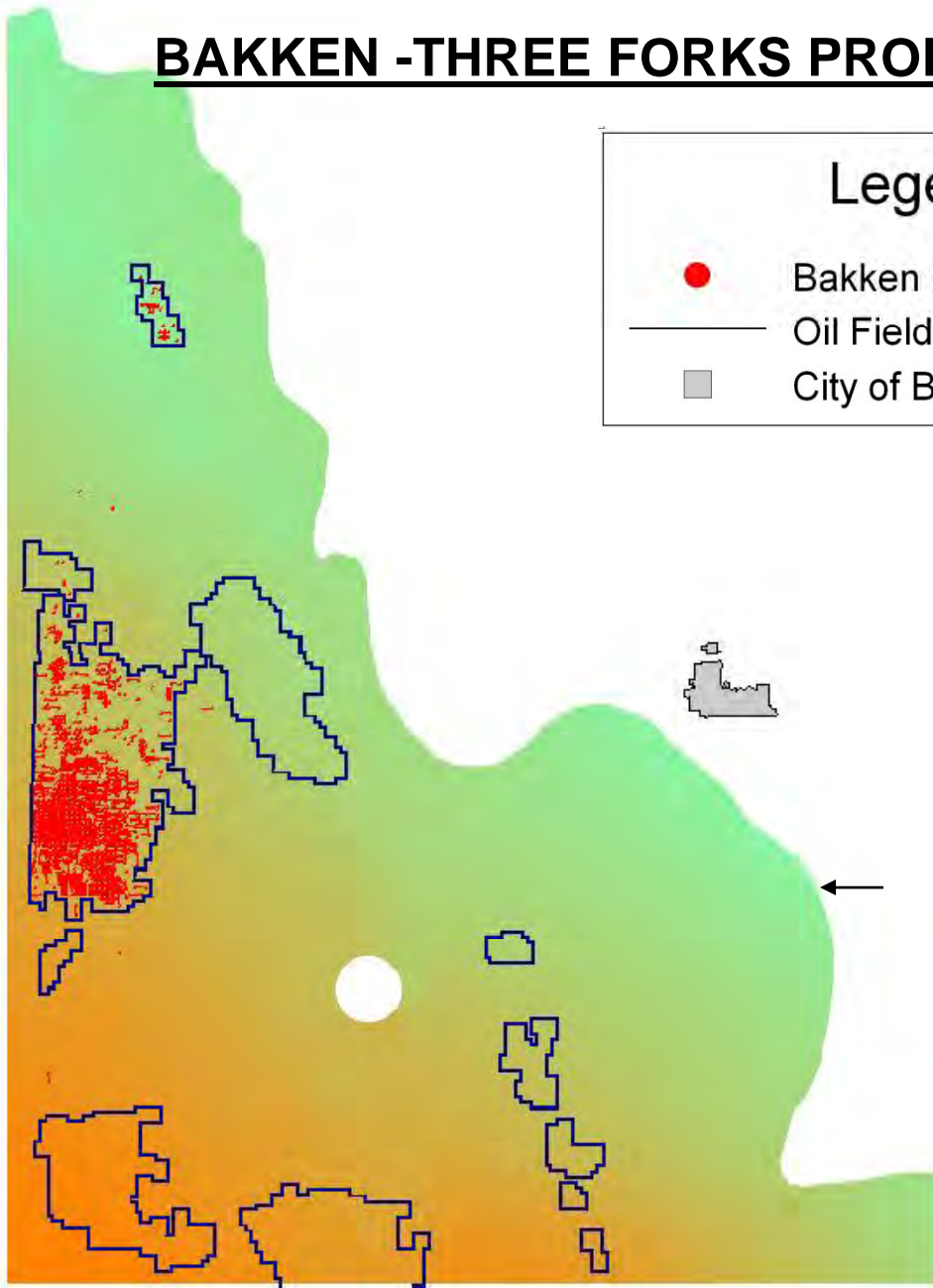
Legend

- Bakken Producing Wells
- Oil Field Boundaries
- City of Brandon

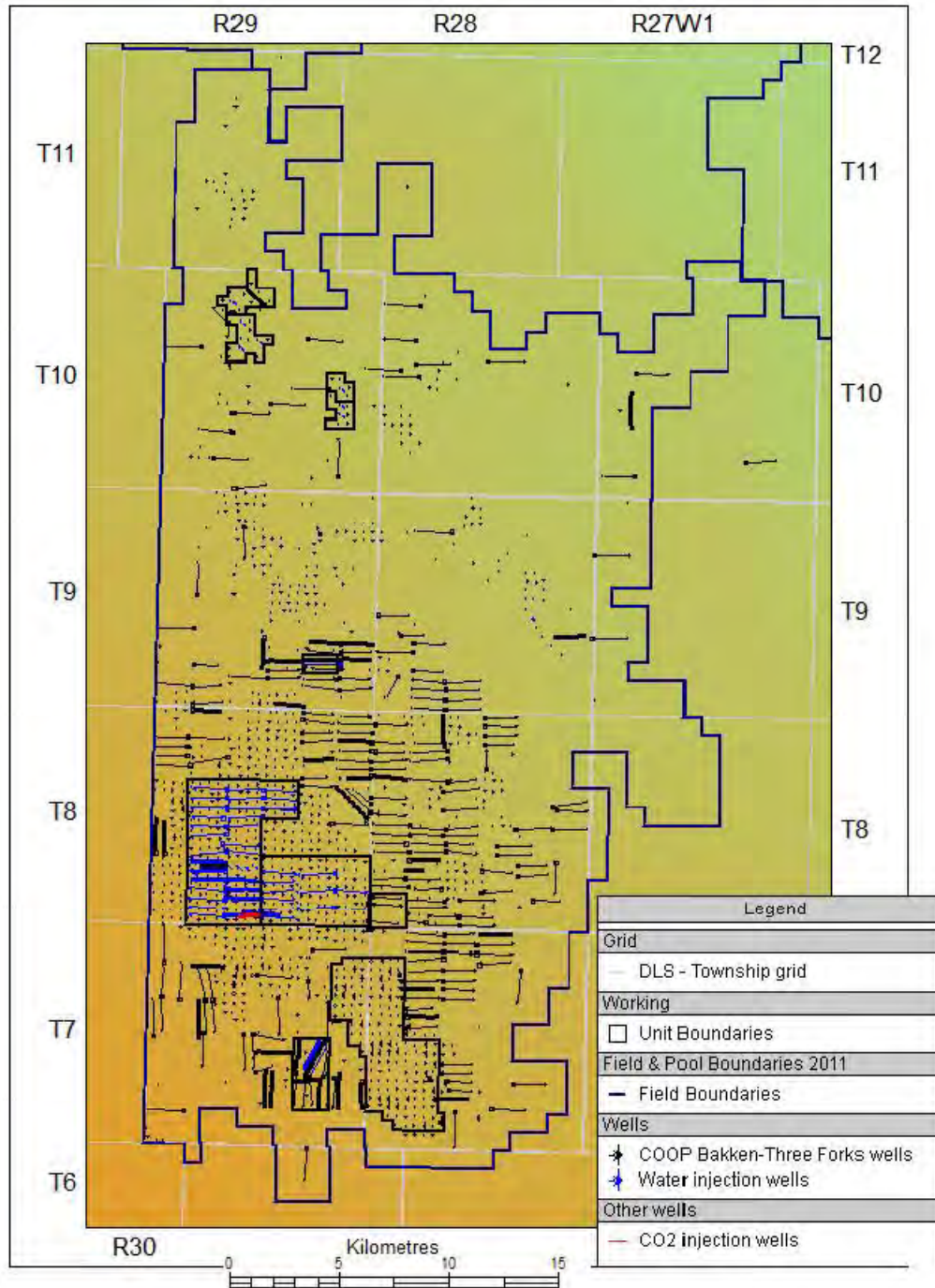
Bakken TVD (m)



Subcrop edge of the Bakken Formation



Daly Sinclair Field Bakken- Three Forks Completions

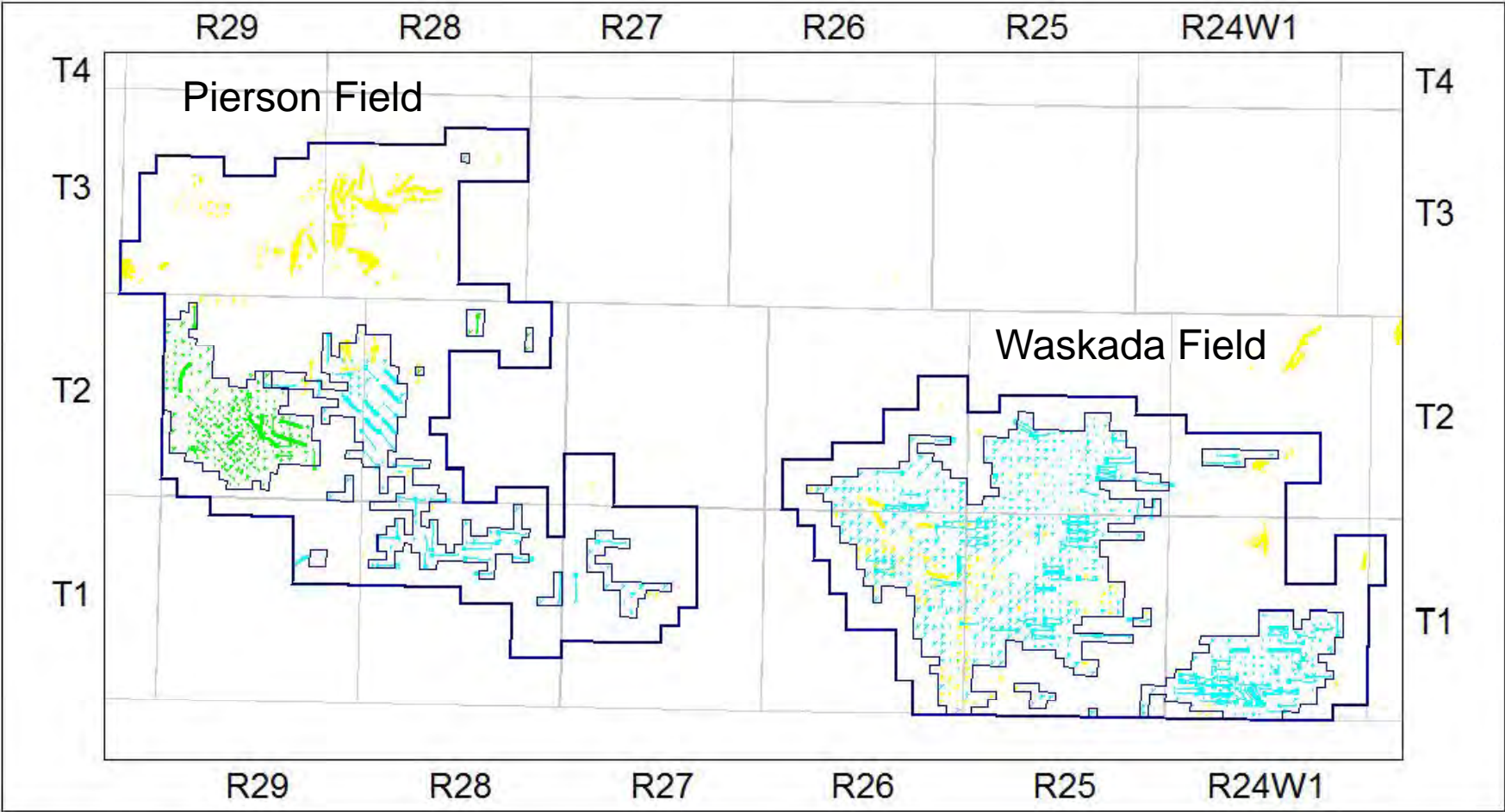


- Daily Production
15,414 b/d

- 9 Waterflood
Projects

- CO2 EOR Pilot
Project

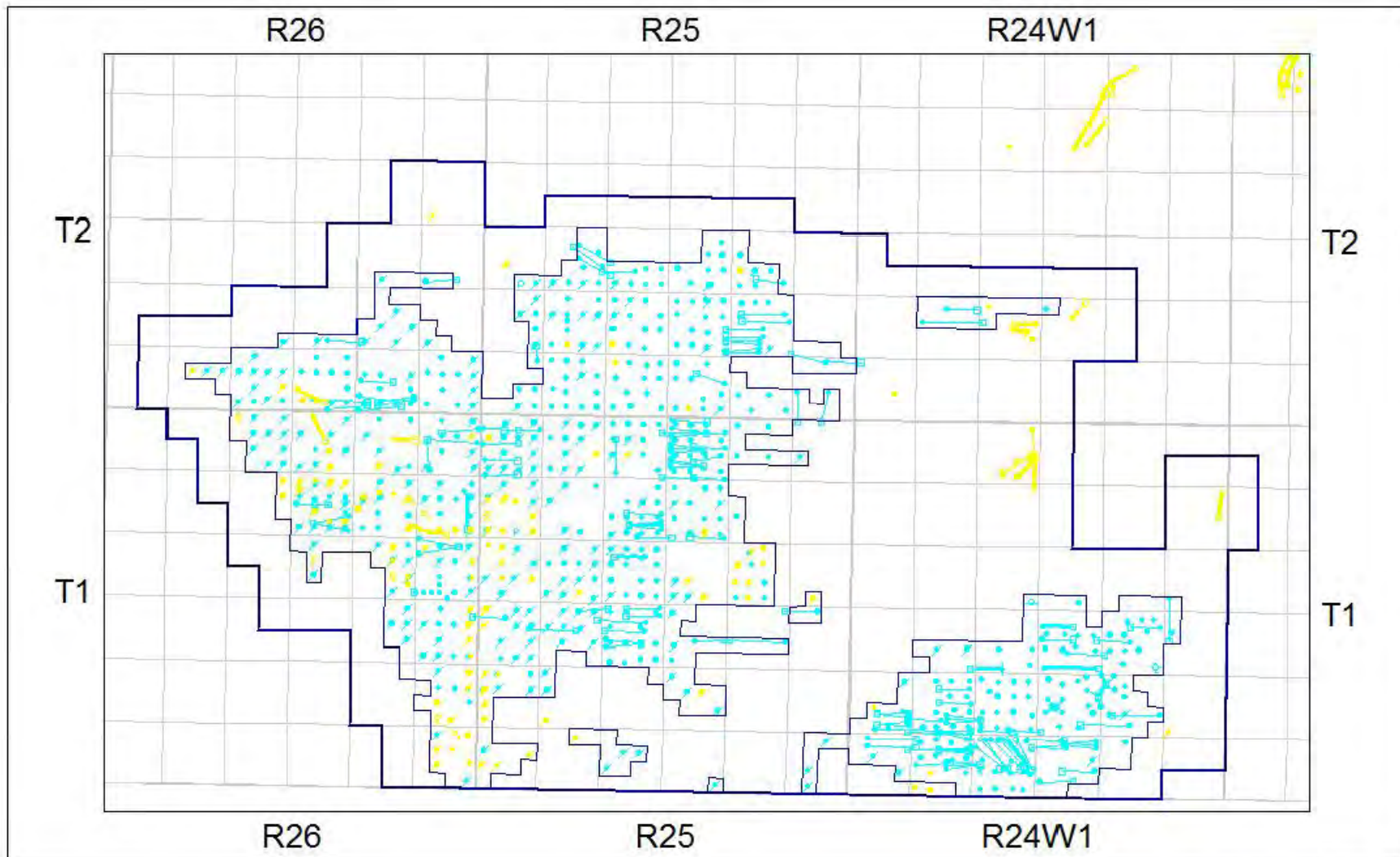
LOWER AMARANTH DEVELOPMENT



- Triassic Lower Amaranth Wells ●
- Lower Amaranth / Mississippian Wells ●
- Mississippian Mission Canyon Wells ●
- Pool Boundaries
- Field Boundary

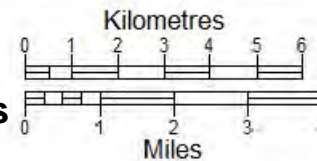


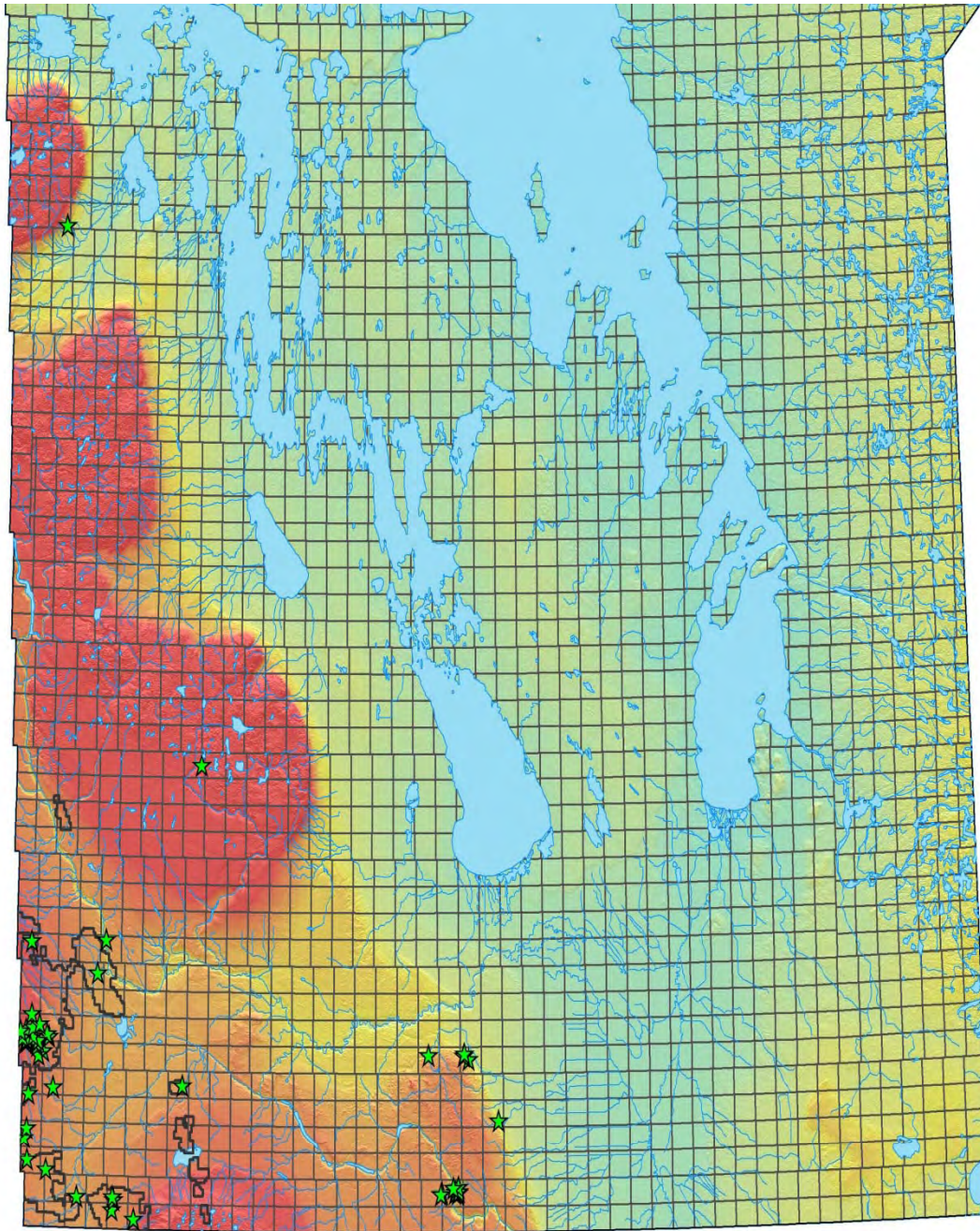
WASKADA FIELD DEVELOPMENT



Plotted on the Dominion Land Survey System Grid

- Triassic Lower Amaranth Wells
- Mississippian Mission Canyon Wells
- Pool Boundaries
- Field Boundary





Manitoba Geological Survey and Petroleum Branch Presentations

- Petroleum & Stratigraphic Investigations
- Shale Gas Potential
- Bakken–Three Forks Fm.
- Lower Amaranth Mbr.

Cretaceous Gas Shows

Department Initiatives

- **Increased staffing to address industry demands**
- **More information on-line**
- **New on-line well licence application process**
- **Proposed regulatory changes**
 - **Drilling and Production Regulation**
 - **Crown Disposition Regulation**
 - **new Pipeline Regulation**
- **Manitoba Drilling Incentive Program extended to January 1, 2014 - holiday oil volume for new vertical and horizontal wells**

TAKE A LOOK AT MANITOBA

www.gov.mb.ca/petroleum

