



**Wolf Petroleum**  
MONGOLIAN OIL AND GAS COMPANY

ASX: WOF, WOFO, WOFOA

# **Hunting for Mongolia's Multi Billion Barrel Oil Fields**

Investor Presentation / August 2014

[www.wolfpetroleum.net](http://www.wolfpetroleum.net)



# INVESTMENT HIGHLIGHTS:

- The leading oil exploration company in Mongolia.
- The largest petroleum acreage holder with over 18 million acres.
- Drill ready prospects with 460 million to 2.2 billion barrels of oil.
- Discussing farm out deals with potential strategic partners.
- Near term huge upside potential with drilling programmes in the planning stage.





# WOLF PETROLEUM - HUGE EXPLORATION POTENTIAL

Wolf Petroleum is the largest petroleum acreage holder with over **74,400 km<sup>2</sup> (18,000,000 acres)** of exploration package in Mongolia. Wolf has blocks proximal to **multi billion barrel oil fields** located in Mongolia and China.

## WOLF PETROLEUM BLOCKS:



**SB block (100%)**

**23,000 km<sup>2</sup>**

Proven and producing region  
Production contract



**BU block (100%)**

**10,000 km<sup>2</sup>**

Proven and producing region  
Exploration contract



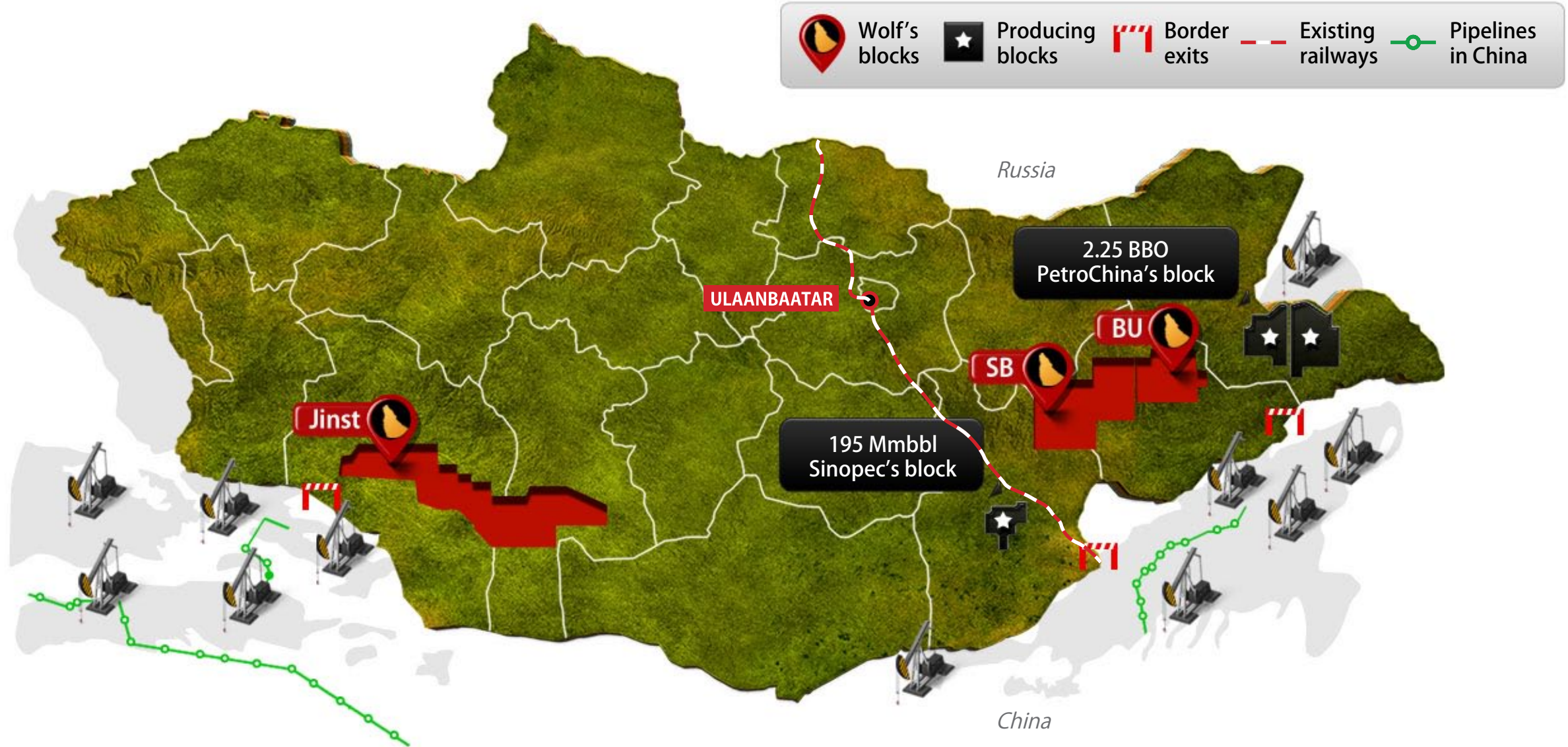
**Jinst block (100%)**

**41,000 km<sup>2</sup>**

Proximal to major oil fields in China  
Exploration contract



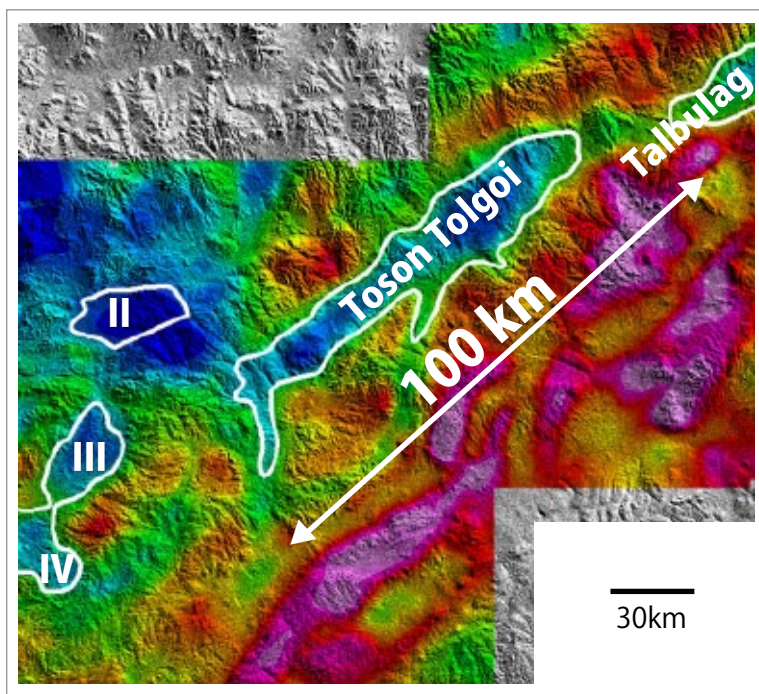
# WOLF PETROLEUM - BLOCKS MAP



# WOLF PETROLEUM - SB BLOCK (100%)

Located in proven and producing region

23,000 sq. km (5,700,000 acres)



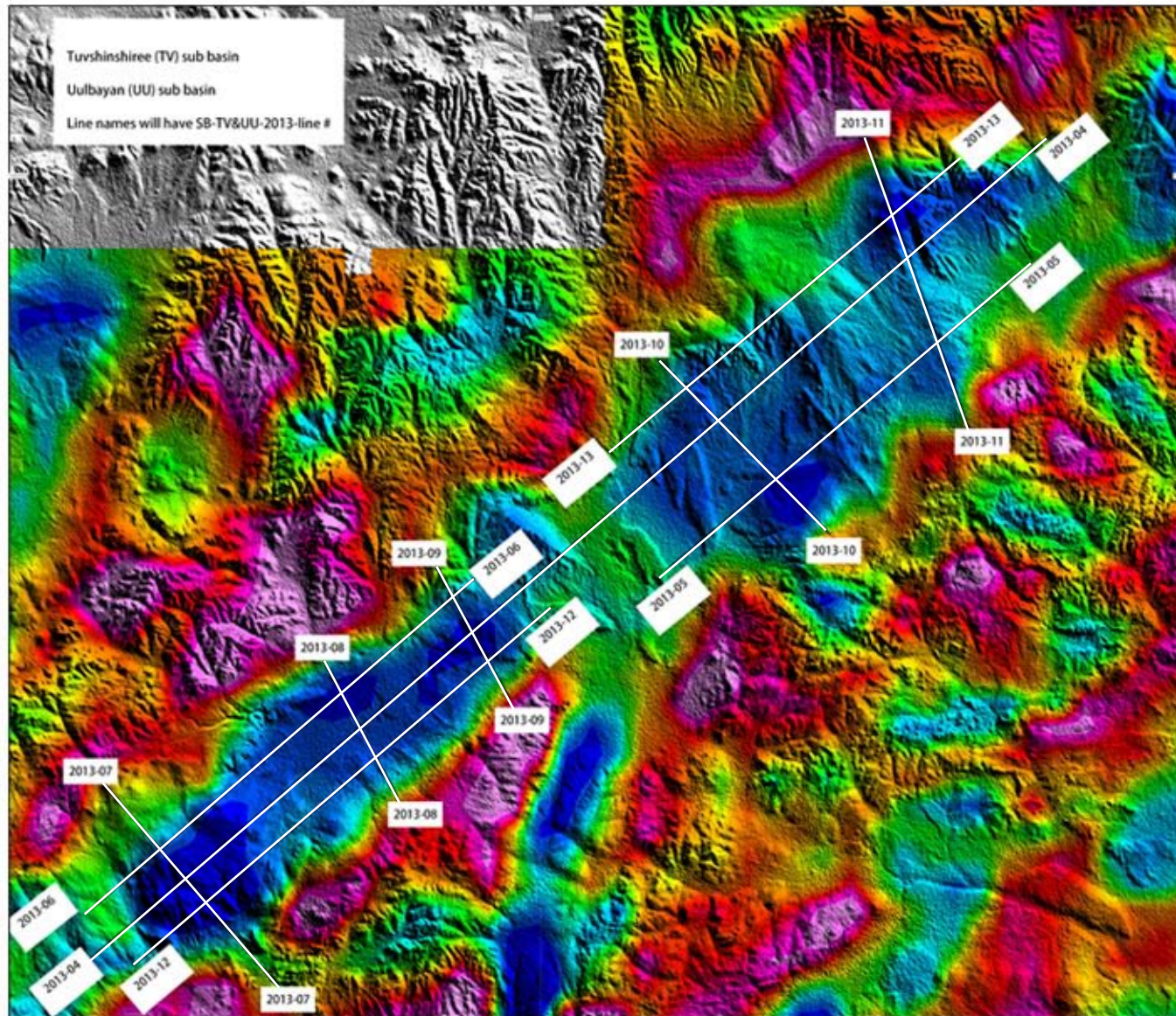
○ Sub basins

## Highly encouraging exploration results:

- ▶ One of the first government identified blocks and potentially the petroleum source kitchen for eastern Mongolia.
- ▶ Ground geophysical programmes has identified one of the largest sub basins with an area of over 3,500 km<sup>2</sup>. (*Toson Tolgoi primary focused basin*)
- ▶ 450km of 2D seismic data acquired. Interpretation has revealed large structural and stratigraphic traps.
- ▶ Geochemical results has identified **high quality light oil** microseeps within seismic shot hole samples.
- ▶ **NEAR TERM FARM OUT AND DRILLING POTENTIAL >>>**  
Data room is open and discussions are under process.



# WOLF PETROLEUM - SB BLOCK (100%)



## Toson Tolgoi basin on SB block.

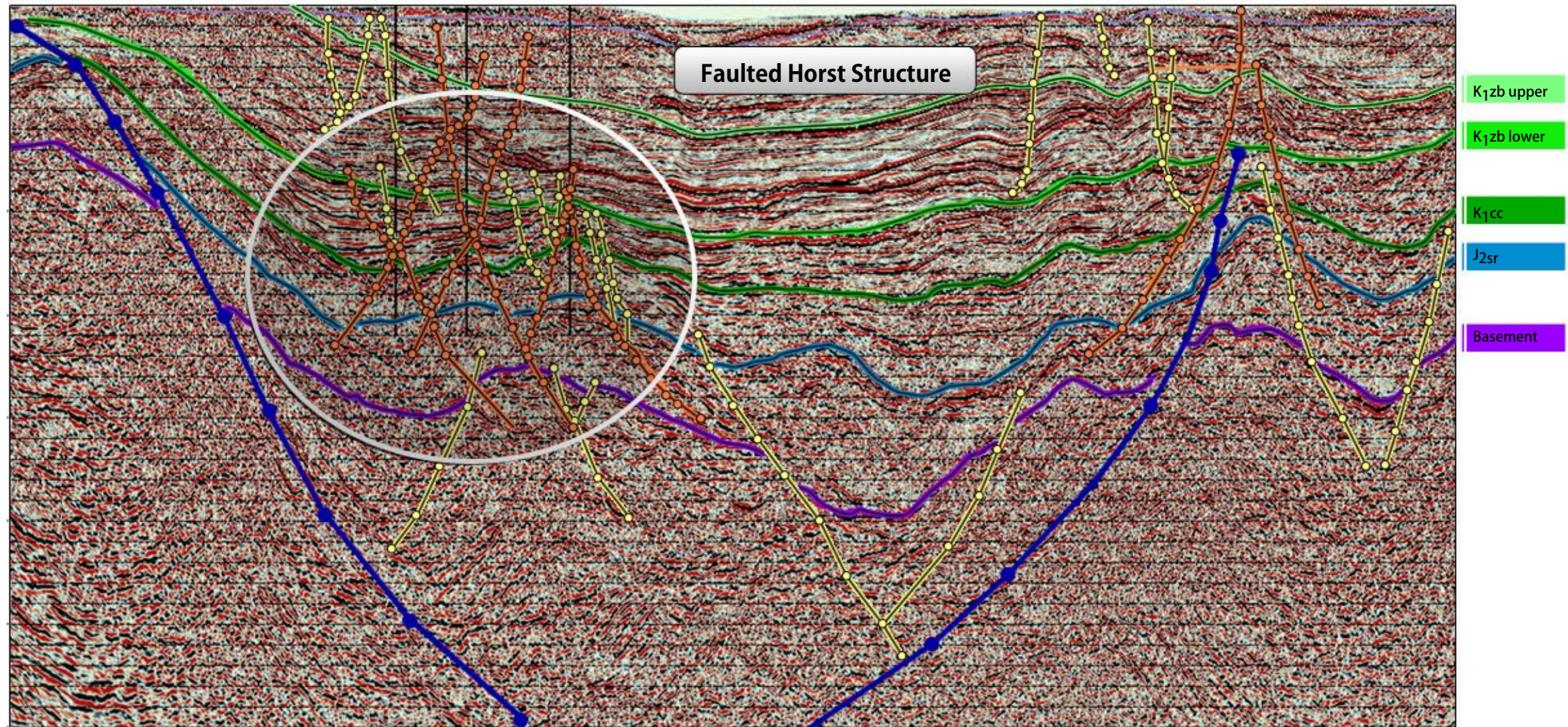
- ▶ Toson Tolgoi is the largest identified sub basin in Mongolia with an area of over 3,500 km<sup>2</sup> and up to 5,000 meters deep.
- ▶ 450km of 2D seismic data has been completed with highly encouraging results.
- ▶ The basin has attractive structural and stratigraphic features with the potential to contain oil.

*The name Toson Tolgoi - Oily Hill is an original name of the region given by local people living in the region.*



# WOLF PETROLEUM - SB BLOCK (100%)

Sample seismic line 55km



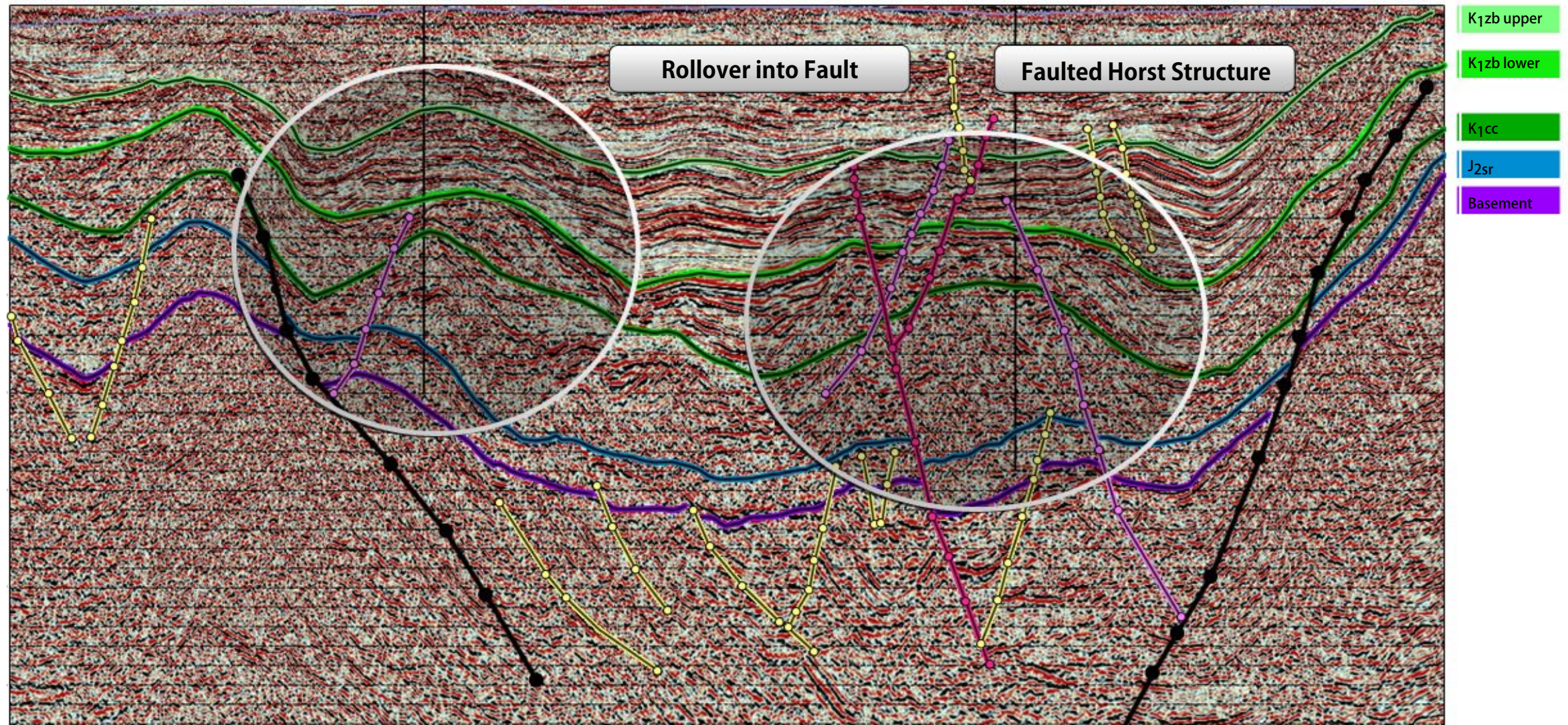
Upper Zuunbayan Lower Zuunbayan Tsagaantsav Sharil Basement

< Primary and Secondary Reservoir Horizons >



# WOLF PETROLEUM - SB BLOCK (100%)

Sample seismic line 55km



< Primary and Secondary Reservoir Horizons >



# WOLF PETROLEUM - SB BLOCK (100%)

Prospective resource assessment on seven leads have been independently estimated by MHA Petroleum Consultants LLC of the USA and confirmed the substantial oil potential on Wolf's 100% owned SB block.

TARGETS	HIGH ESTIMATE	BEST ESTIMATE	LOW ESTIMATE
UU #1,2,3	914.6 million	431.3 million	178.5 million
TV #1,2	710.3 million	329.2 million	112.1 million
TB #1,2	607.6 million	332.2 million	171.7 million
<b>TOTAL:</b>	<b>2.232 billion</b>	<b>1.092 BILLION</b>	<b>462.3 million</b>

*HIGH estimates are (P10) and LOW is (P90). Prospective Resource Assessment (PRA) was estimated following PRMS (Petroleum Resource Management System) Guidelines. Estimates are for primary recovery from structural leads only and potential stratigraphic and additional leads are not included in this calculation.*

*The estimated quantities of petroleum that may potentially be recovered by the application of future development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons.*

*Detailed information was announced on ASX 05/05/2014 titled Oil Resource Estimates Increased.*



# WOLF PETROLEUM - SB BLOCK (100%)

The Company collected over 7,500 seismic shot hole samples at 15m depth and analysed every 10th at Vista Lab in Colorado, USA.



Seismic shot hole sample from Toson Tolgoi basin.

## Geochemical analysis

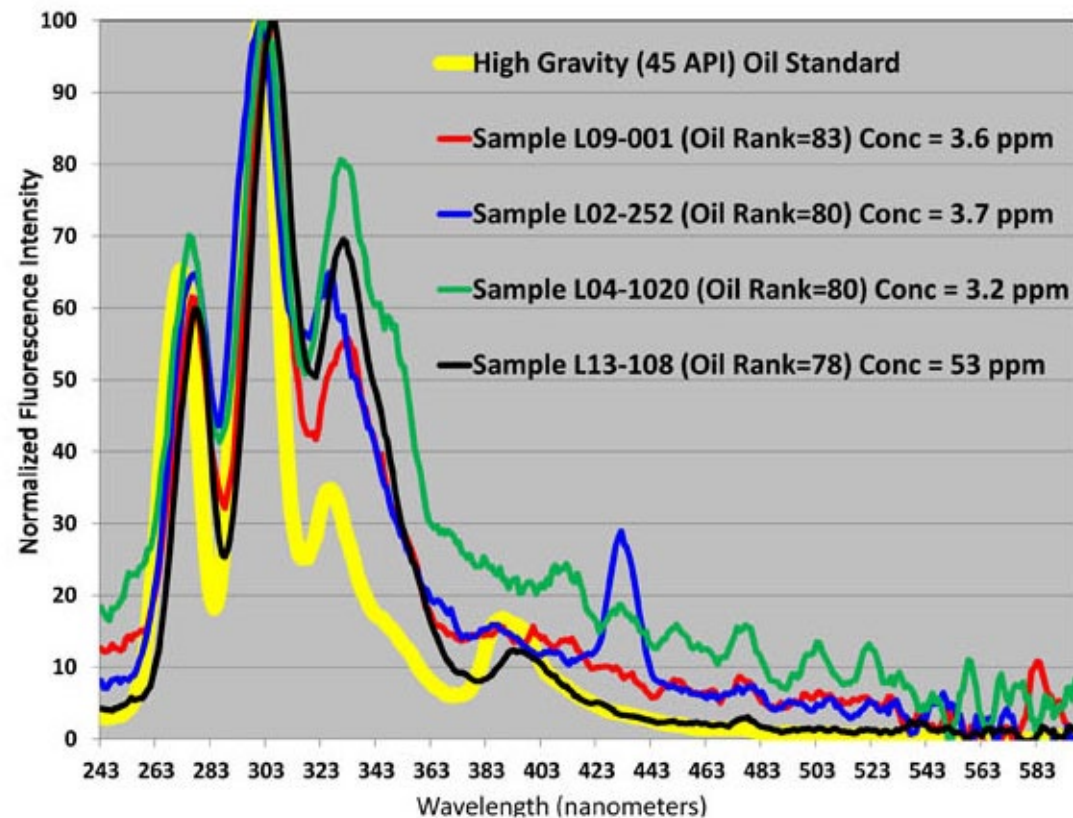
The objectives of geochemical analysis were to prove the existence of an active petroleum system in the sedimentary basins based on the presence of migrated hydrocarbons and to assess the hydrocarbon potential of the Toson Tolgoi and Tabulag basins.

Shot hole frequency 60 meters.



# WOLF PETROLEUM - SB BLOCK (100%)

The Company collected over 7,500 seismic shot hole samples at 15m depth and analysed every 10th at Vista Lab in Colorado, USA.



Comparison of light (45<sup>0</sup> API) crude oil standard to seismic shot hole samples from the SB block.

## Geochemical analysis results

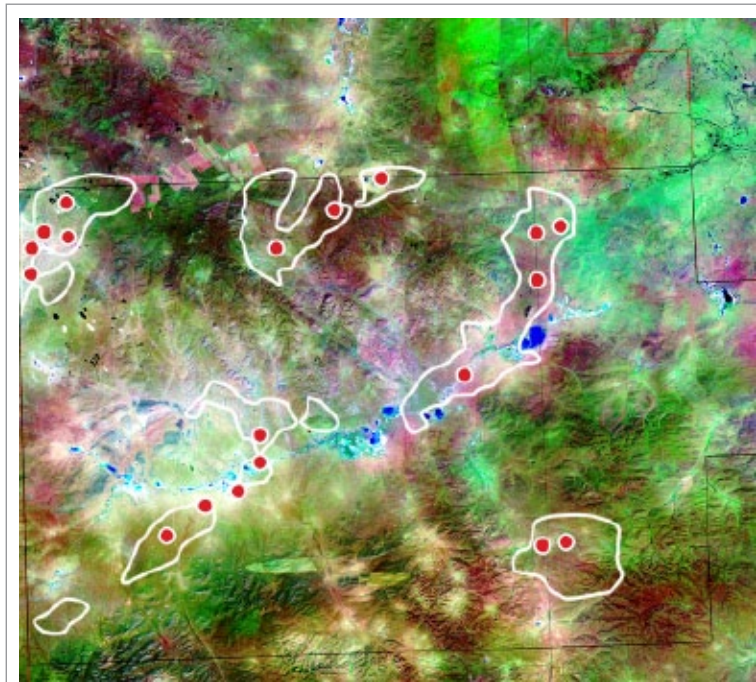
- ▶ 150 out of 723 have High 45<sup>0</sup> - medium 30<sup>0</sup> API oil microseeps.
- ▶ 80 out of 723 contain anomalous amount of propane (C3) gas.
- ▶ The propane (C3) gas in the samples was derived from an oil rather than wet gas source.
- ▶ PetroChina in Mongolia produces 36<sup>0</sup> API light oil.
- ▶ Live oil seeps along multiple parts of the seismic lines provided **compelling evidence of an active petroleum system** in the Toson Tolgoi and Tal Bulag basins.



# WOLF PETROLEUM - BU BLOCK (100%)

Located in proven and producing region

10,000 sq. km (2,500,000 acres)



○ Sub basins ● Lead targets

## Ahead of contract commitments:

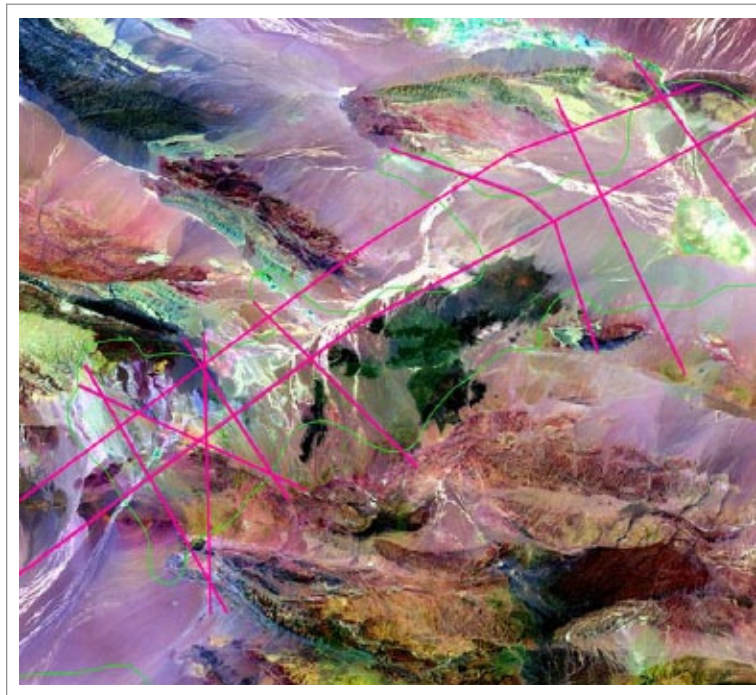
- ▶ The block is located proximal to PetroChina's multi billion barrel oil field in Mongolia. Geological structures and depth of basins are similar to current operating oil fields.
- ▶ Ground geological and geophysical programmes completed.
- ▶ Six sub basins identified similar to current producing fields.
- ▶ 330 km of 2D seismic completed. 22 leads identified.
- ▶ Resource potential being estimated.
- ▶ **APPLYING FOR A PRODUCTION SHARING CONTACT.**



# WOLF PETROLEUM - JINST BLOCK (100%)

Located in proven and producing region

41,000 sq. km (10,000,000 acres)



— Planned 2D seismic lines

## Ahead of contract commitments:

- ▶ The Jinst block is the largest exploration block in Mongolia, proximal to one of the largest producing basins in China to the south.
- ▶ Ahead of contract commitments.
- ▶ Ground geological and geophysical programmes completed.
- ▶ Eleven sub basins identified. Priority target basins with over 1,500 sq. km identified.
- ▶ Approximately 500km of 2D seismic programme planned.
- ▶ **APPLYING FOR A PRODUCTION SHARING CONTACT IN 2014.**



# WOLF PETROLEUM - COMPANY DIRECTORS

Wolf has a strong local team backed by international consultants and managed by industry experienced directors with a proven track record in Mongolia and globally.

## DIRECTORS AND MANAGEMENT

Matthew Wood	Executive Chairman
George Tumur	Joint Chairman
Bataa Tumur - Ochir	CEO, Director
Brian McMaster	Non Executive Director
Jason Peterson	Non Executive Director
Jargalsaikhan D.	Non Executive Director

### STRONG LOCAL PRESENCE

The Company is based in UlaanBaatar, Mongolia

Awarded  
**THE OPERATOR  
OF THE YEAR  
2013 & 2011**



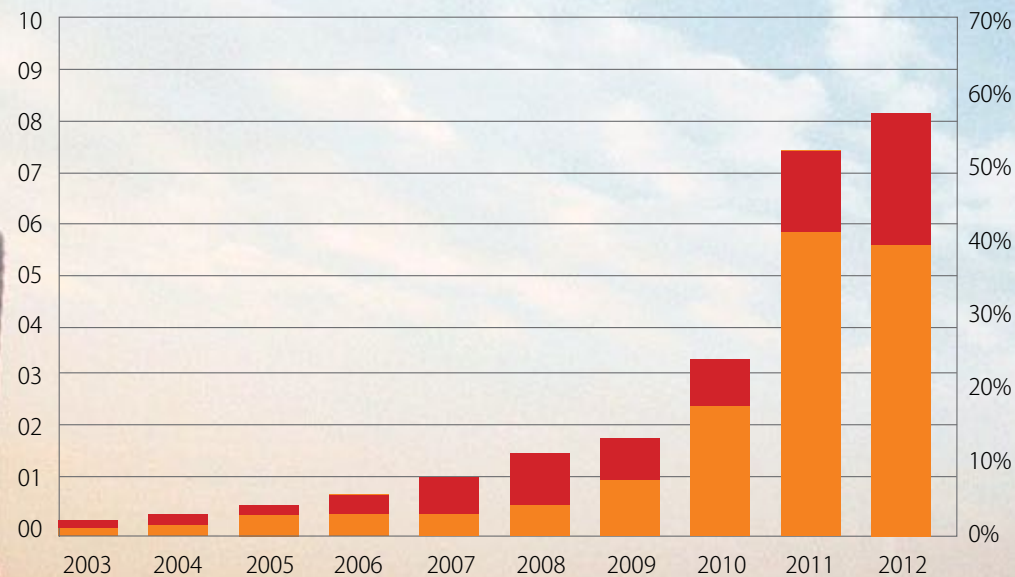
# ABOUT MONGOLIA

Mongolia provides an opportunity for investors to benefit from continual and rapid growth. Mongolia has been listed as one of the **world's fast growing economy** for the second year running.

Foreign Direct Investment into Mongolia 2003 - 2012

**Mongolia Sets Same Rules for Foreign and Local Investors**

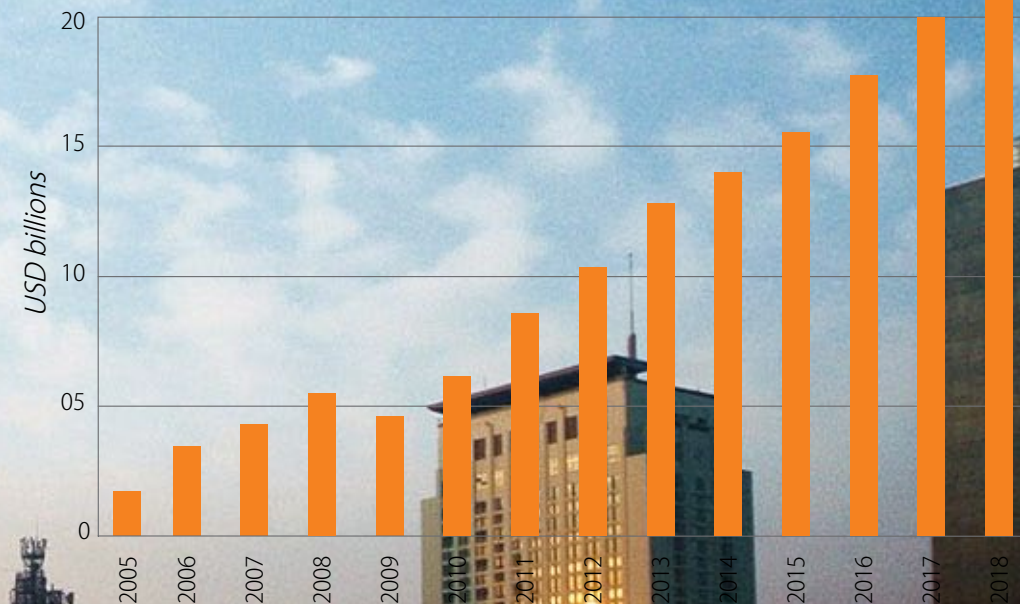
Foreign Direct Investment Local Investment



Mongolia GDP Growth 2005 - 2018

**The fastest growing economy in the next decade - IMF**

Source: International Monetary Fund, April 2013 WEO





# OIL IN MONGOLIA

Mongolia is one the last frontiers, where **multi billion barrel oil fields** being **discovered and produced** with highly competitive production sharing terms.

## NEW AND RAPIDLY GROWING INDUSTRY

Emerging country with a rapidly growing oil exploration industry. Since 2008, a total of 58 wildcat wells have been drilled across Mongolia **with a 51% success rate.**

PetroChina and Sinopec are producing oil and exporting to China on three blocks in Mongolia. Since 2005 PetroChina's **oil production and export to China have multiplied 24 times.**

Investment into Mongolian oil and gas industry is fully supported by the Government. Mongolia is planning to double their production within next 4 years.

Oil Production and Export in Mongolia





# HUGE DEMAND AND MARKET

Mongolia is a direct neighbor of China. It is anticipated that China will shortly become the World's largest energy consumer. China will import more than 66% of its total oil by 2012 and 72% by 2040\*.

## AN OPPORTUNITY TO MEET DEMAND

**China on Track to spend US\$500bn** annually on crude oil imports by 2020, surpassing US import requirements.

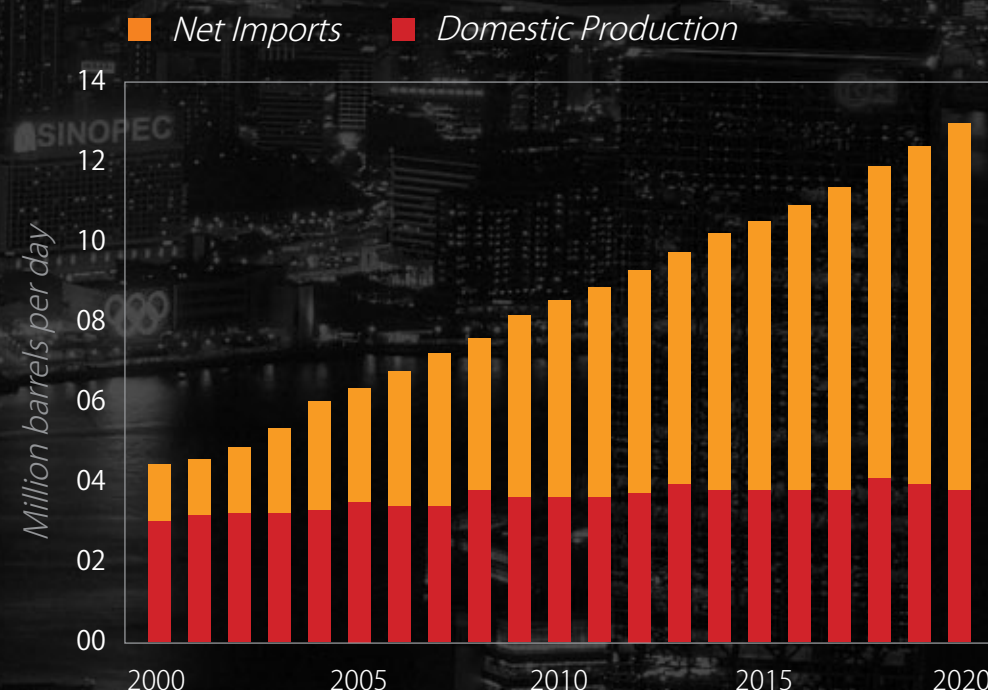
**China provides a ready market for any oil and gas discovery.**

Wolf Petroleum's blocks are strategically located proximal to the Chinese border and refinery capacity.

**Oil export options via roads and railways are in place.**

\* US Department of Energy.

China's Oil Import and Production





# WOLF PETROLEUM - CONTACT

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## Forward-looking statements

This presentation includes certain “forward-looking statements.” All statements, other than statements of historical fact, are forward-looking statements that involve various risks and uncertainties. There can be no assurances that such statements will prove accurate, and actual results and future events could differ materially from those anticipated in such statements. Such information contained herein represents management’s best judgment as of the date hereof based on information currently available. The company does not assume the obligation to update any forward-looking statement.