

# Repsol YPF

## EUROPE, AFRICA & ASIA ASSETS

***Safe harbor statement under the Private Securities Litigation Reform Act of 1995:***

***This document contains statements that Repsol YPF believes constitute forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements may include statements regarding the intent, belief or current expectations of Repsol YPF and its management, including statements with respect to trends affecting Repsol YPF's financial condition, financial ratios, results of operations, business, strategy, geographic concentration, production volume and reserves, as well as Repsol YPF's plans with respect to capital expenditures, cost savings, investments and dividend payout policies. These statements are not guarantees of future performance and are subject to material risks, uncertainties, changes and other factors which may be beyond Repsol YPF's control or may be difficult to predict.***

***Repsol YPF's future financial condition, financial ratios, results of operations, business, strategy, geographic concentration, production volumes, reserves, capital expenditures, cost savings, investments and dividend payout could differ materially from those expressed or implied in any such forward-looking statements. Such factors include, but are not limited to, currency fluctuations, the price of petroleum products, the ability to realize cost reductions and operating efficiencies without unduly disrupting business operations, environmental and regulatory considerations and general economic and business conditions, as well as those factors described in the filings made by Repsol YPF and its affiliates with the Comisión Nacional del Mercado de Valores in Spain, the Comisión Nacional de Valores in Argentina and the Securities and Exchange Commission in the United States; in particular, those described in Section 1.3 "Key Information about Repsol YPF? Risk Factors" and Section 3 "Operating and Financial Review and Prospects" in Repsol YPF's annual report on Form 20-F for the fiscal year ended December 31, 2003 filed with the Securities and Exchange Commission.***

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# **REPSOL YPF**

## **SPAIN – E&P**



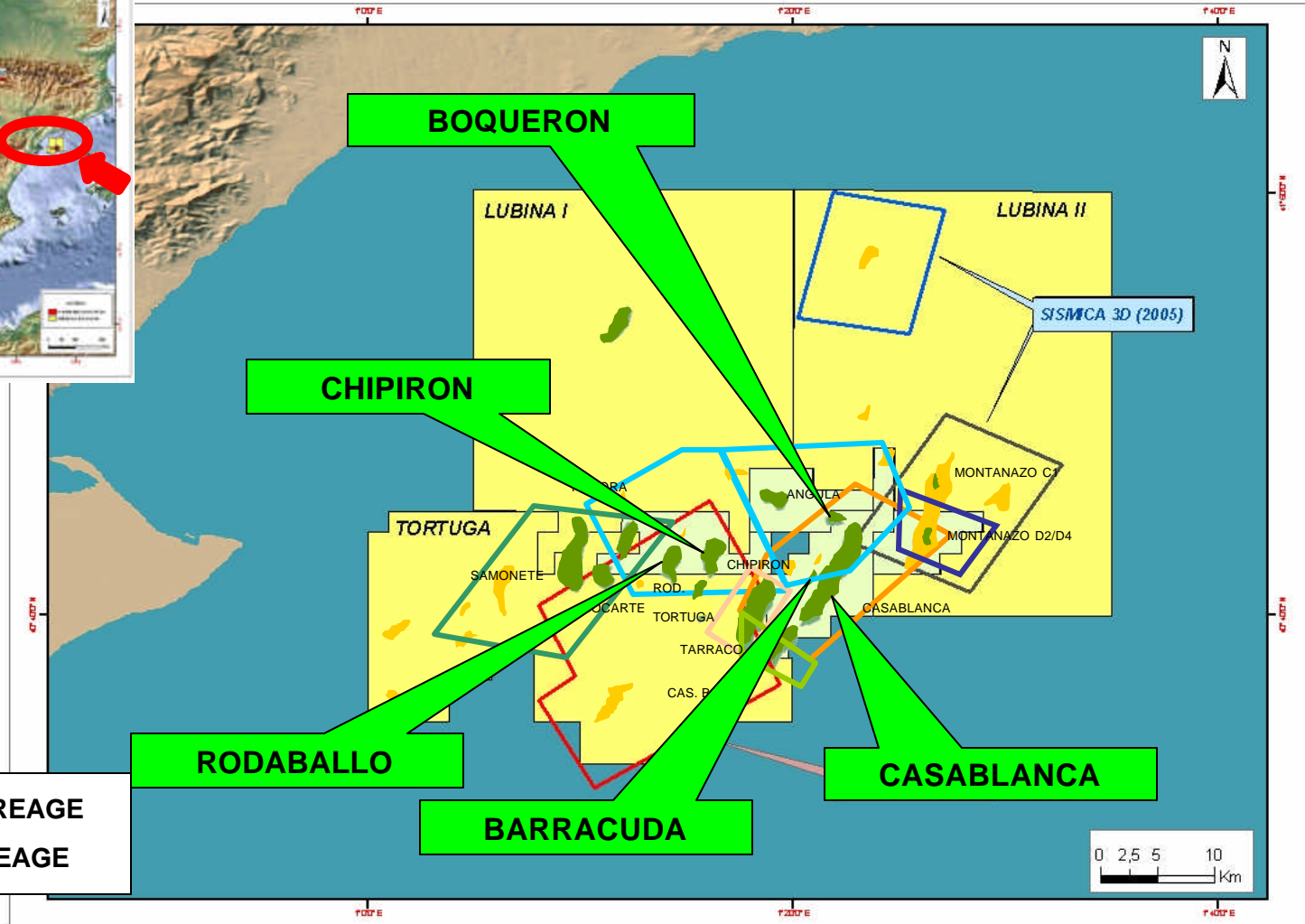
# Spain at a glance



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- **Spain:**
  - A non-producing country of oil & gas
  - Excellent fiscal terms (35% Corporate Tax & 25% Depletion Allowance)
  - Concession type “contract”
- **Opportunities:**
  - Canarias exploration project (a frontier area: high risk – high reward)
  - Gas storage: Gaviota (capacity increase to 1.7 BCM), Poseidón (conversion)
- **Production Acreage:**
  - Tarragona (Casablanca & Satellite Fields): 5,084 BOPD (Jan - Oct 2004)
- **Exploration Acreage:**
  - Oil: Canarias, Ballena, Lubina, Tortuga
  - Gas: Siroco, Murcia - Sierra Sagra, Calypso - Circe

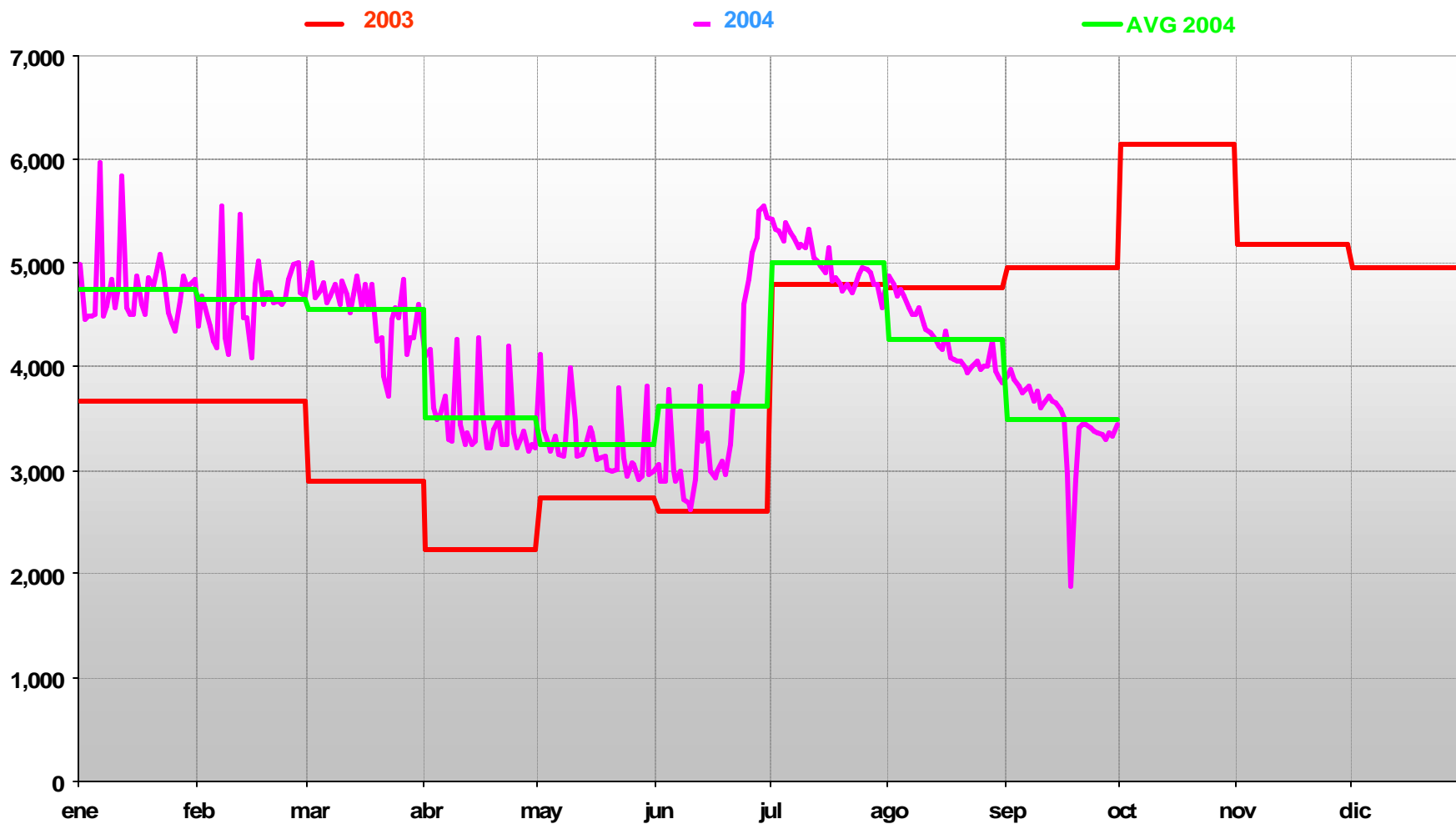
# Tarragona Offshore Oil Fields



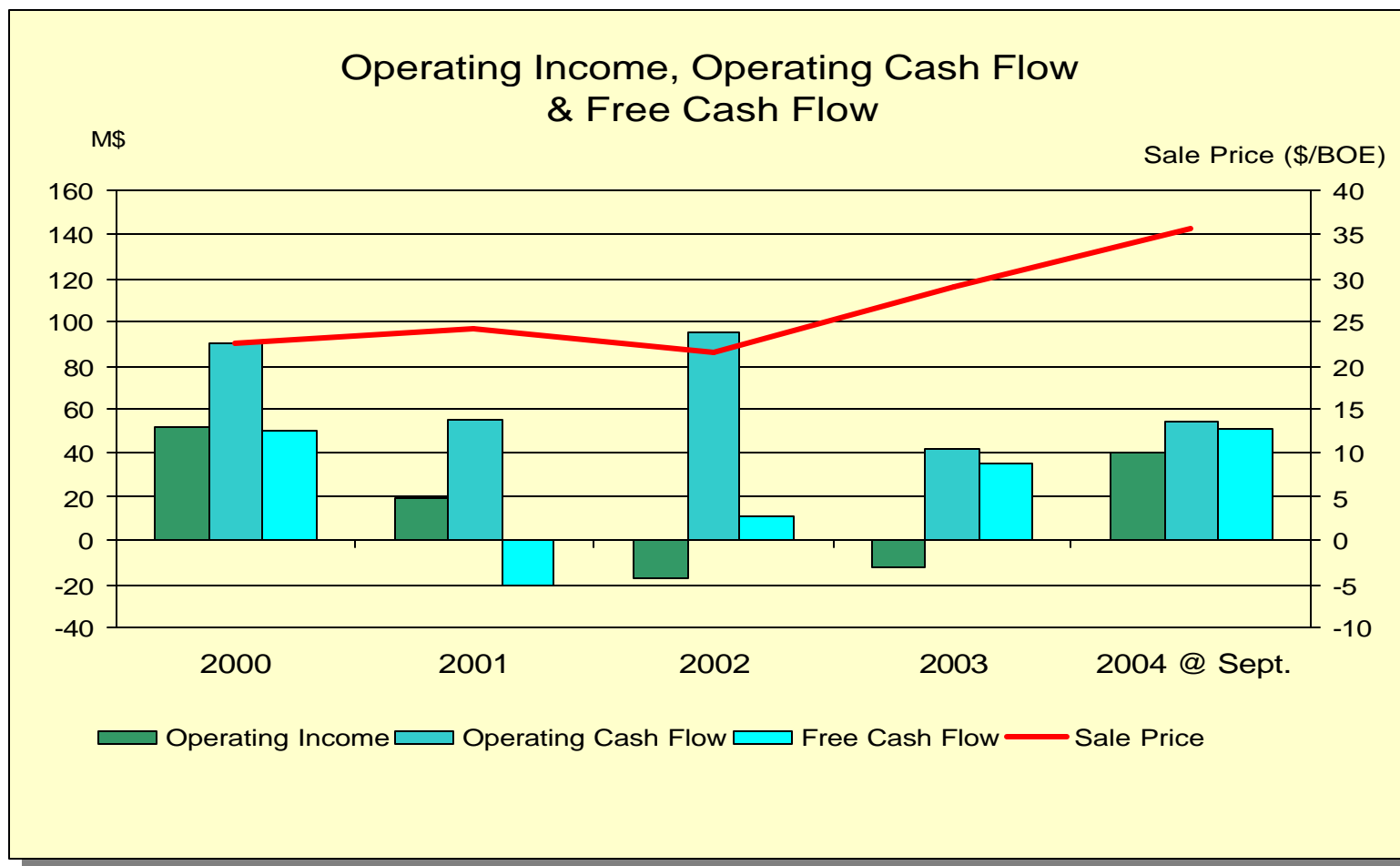
-  EXPLORATION ACREAGE
-  PRODUCTION ACREAGE

# Spain: net daily production

NET HCL DAILY PRODUCTION (bopd)



# Spain - Operating Income & Cash Flow



# **REPSOL-YPF**

## **NORTH-WEST AFRICA**



# Repsol YPF North West Africa

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North West Africa is an emerging Oil & Gas province.

Passive margin basins with underexplored deepwaters. Significant depocenters with capability to generate oil & gas.

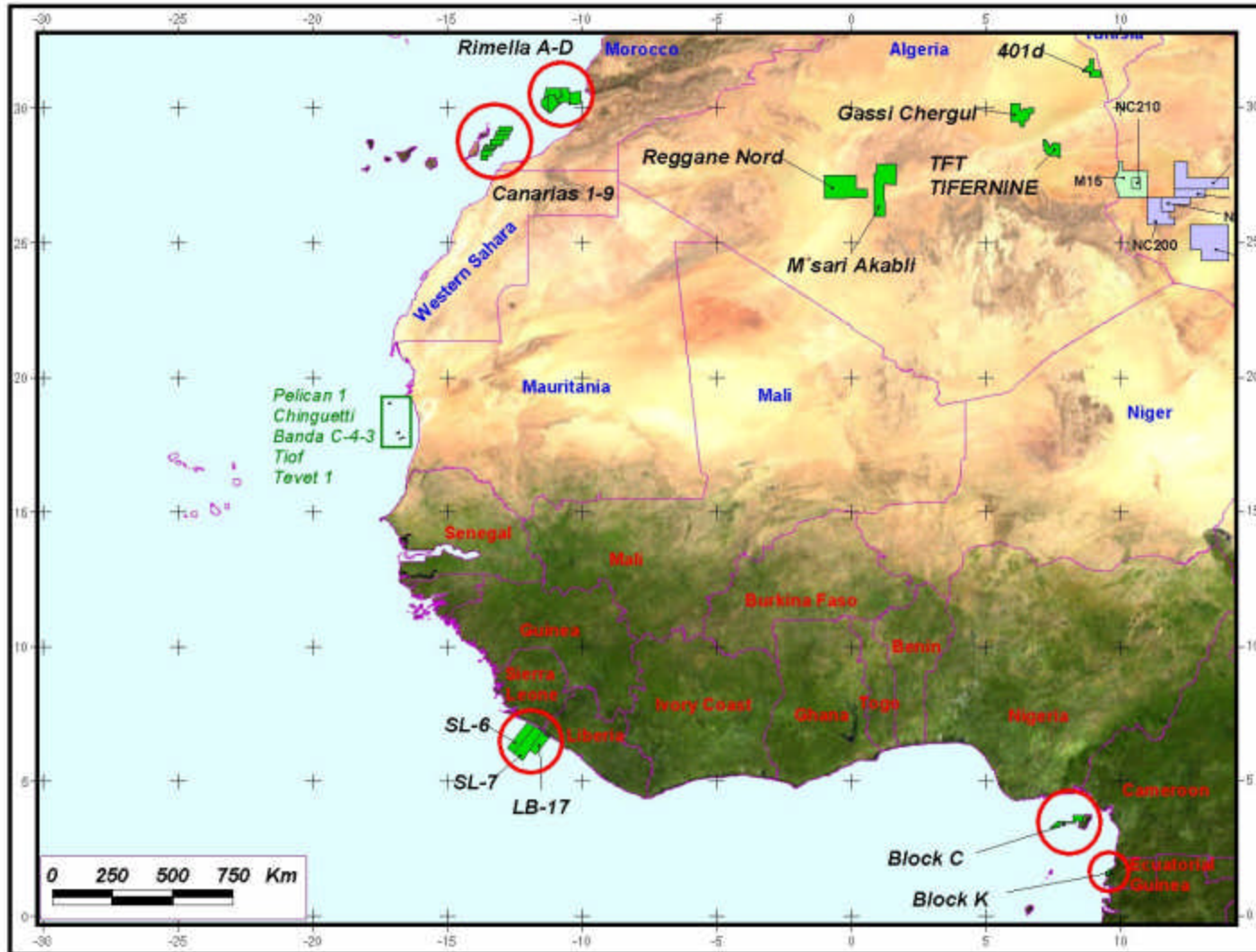
Recent oil discoveries by Woodside in Mauritania: +300 MMBO and 2 TCF.

Repsol YPF is very active through regional studies since 2000.

AMI signed between Repsol YPF & Woodside to jointly explore the area.

**Strategy: To acquire, both in E&W margin Atlantic basins, medium to high risk blocks with high reward. This should be due to size to be discovered and excellent contractual terms. Low investment commitments. Repsol YPF Operator.**

# Repsol YPF West Africa E&P Acreage



# Repsol YPF North West Africa

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More than 30,000 km<sup>2</sup> of gross acreage contracted by Repsol YPF since 2002.

Canary 1-9 Blocks awarded in 2002. 3D already registered with good HC expectations. First well to be spudded in 2005.

Sierra Leone 6 & 7 Blocks signed in 2003. 3D already registered.

Liberia 17 Block signed in 2004. 3D seismic to be acquired in 2005.

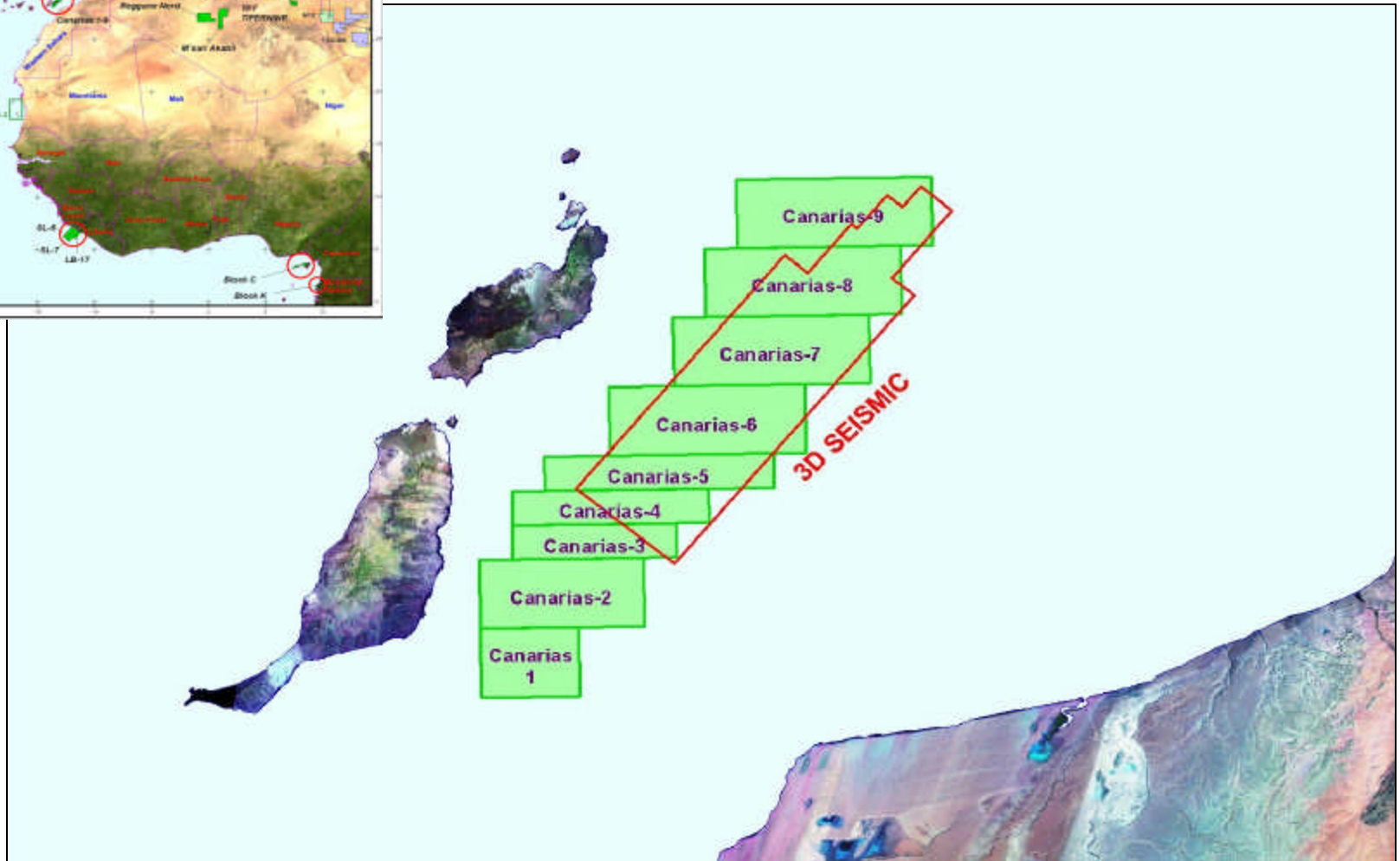
Ongoing Liberia Bidding Round.

FI in Rimella A-D Blocks in Morocco. Shell Operator. 3D acquired and one well already drilled.

Repsol YPF evaluating new blocks in Ghana, Ivory Coast and Mauritania Open Acreage.

# West Africa. 2005 Budget.

## Spain. Canary Islands. Blocks 1 to 9



# North-West Africa.

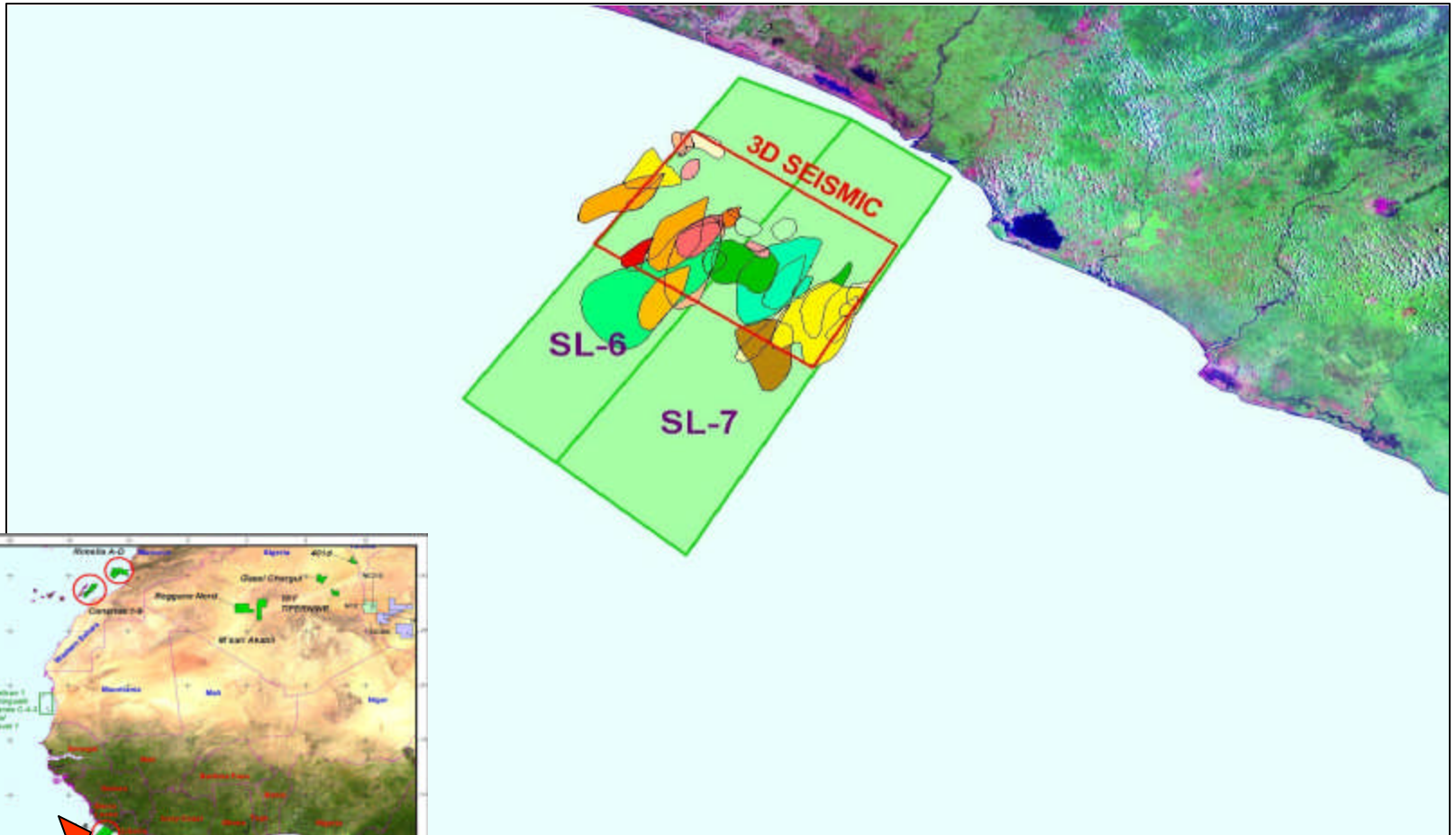
## Spain. Canary Islands. Blocks 1 to 9

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- Partners:** Repsol-YPF (50%), Woodside (30%), RWEDea (20%).
- Operator:** Repsol-YPF.
- Gross Acreage:** 6,160 km<sup>2</sup>.
- Exploration Periods:** Initial term, 6 years (2002-2008).
- Commitments:** 3,914 Km 2D, 3,000 Km<sup>2</sup> 3D and two wells.
- Work done:** 3,914 km 2D and 3,250 km<sup>2</sup> 3D registered. First well to be drilled in 2005.
- Contractual terms:** Income Tax contract. 35 % income tax with depletion allowance (25%).

# West Africa. SIERRA LEONE. Blocks 6 & 7



# West Africa.

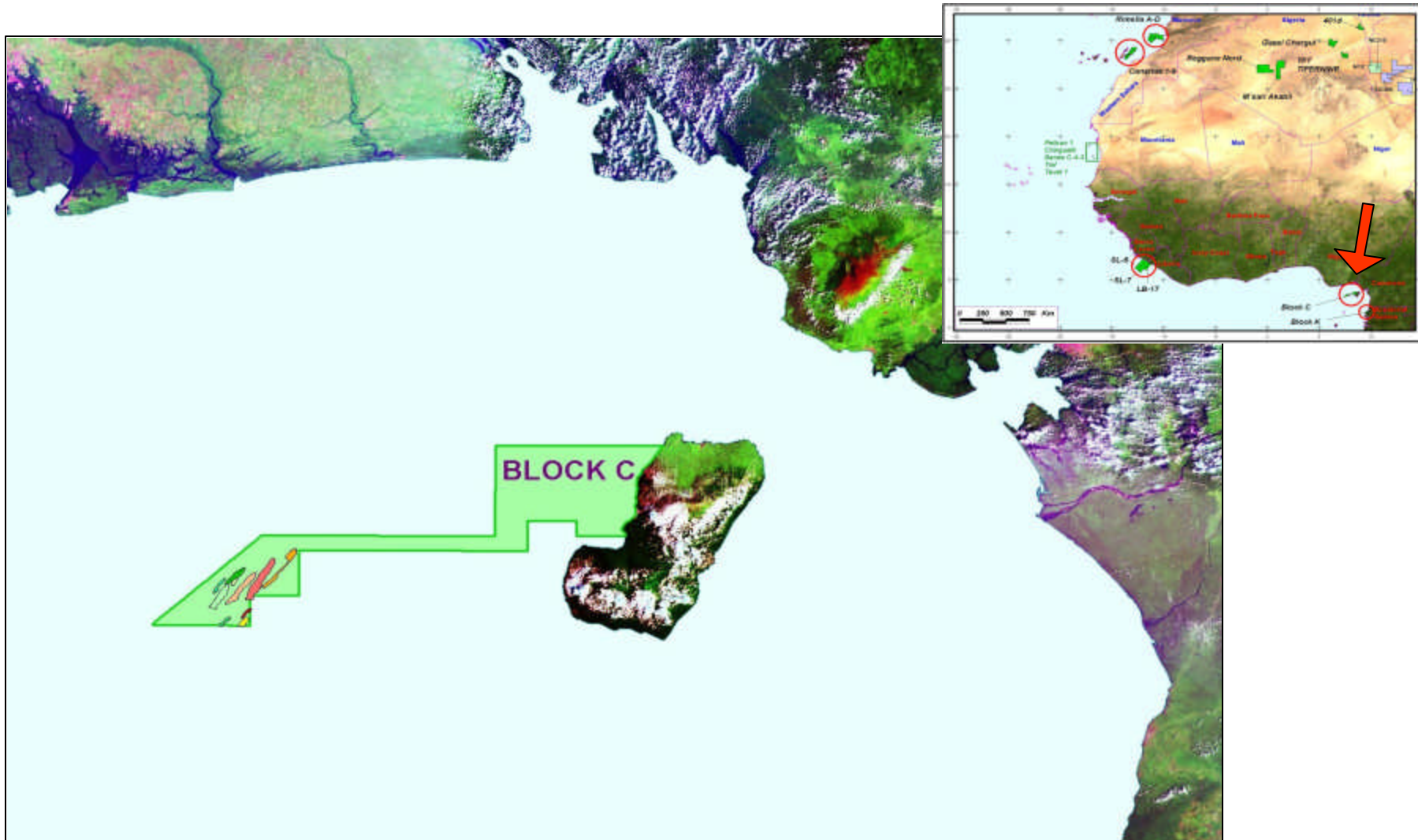
## SIERRA LEONE. Blocks 6 & 7

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<b>Partners:</b>	Repsol YPF (50 %), Woodside (50 %).
<b>Operator:</b>	Repsol YPF.
<b>Gross Acreage:</b>	10,498 km <sup>2</sup> .
<b>Exploration Periods:</b>	Initial period 4 years (2003-2007). First extension 1,5 years (08/2007, 02/2009). Second extension 1,5 years (02/2009-08/2010).
<b>Commitments:</b>	Initial period, 1,500 km 2D, 200 km <sup>2</sup> 3D. First extension, 1 well. Second extension, 1 well.
<b>Work already done:</b>	3,700 km <sup>2</sup> 3D (commitment fulfilled).
<b>Results to date:</b>	3D seismic processing in progress.
<b>Contract type:</b>	Tax & Royalty contract.

# West Africa. EQUATORIAL GUINEA. Block C.





# West Africa.

## EQUATORIAL GUINEA. Block C

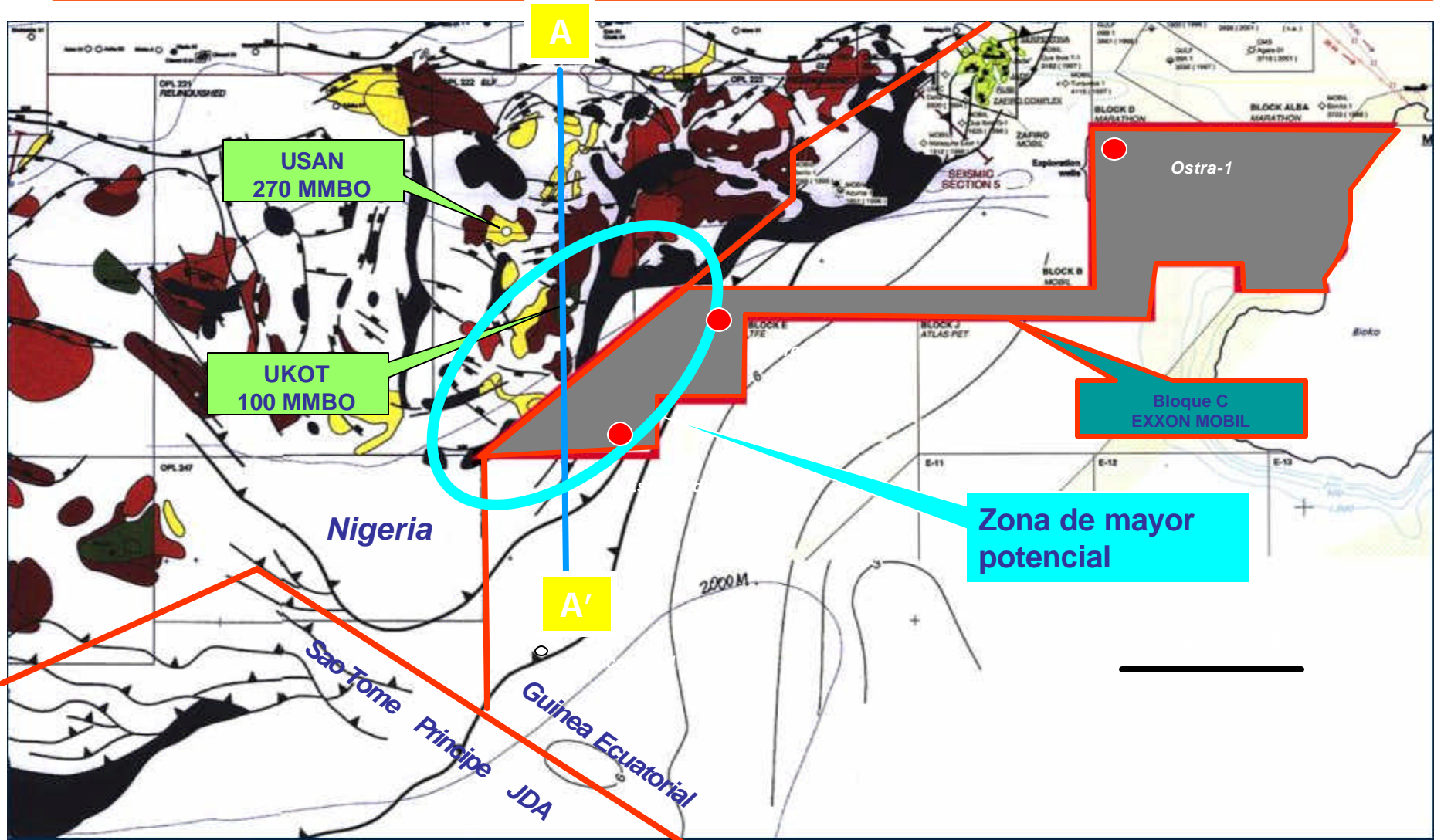
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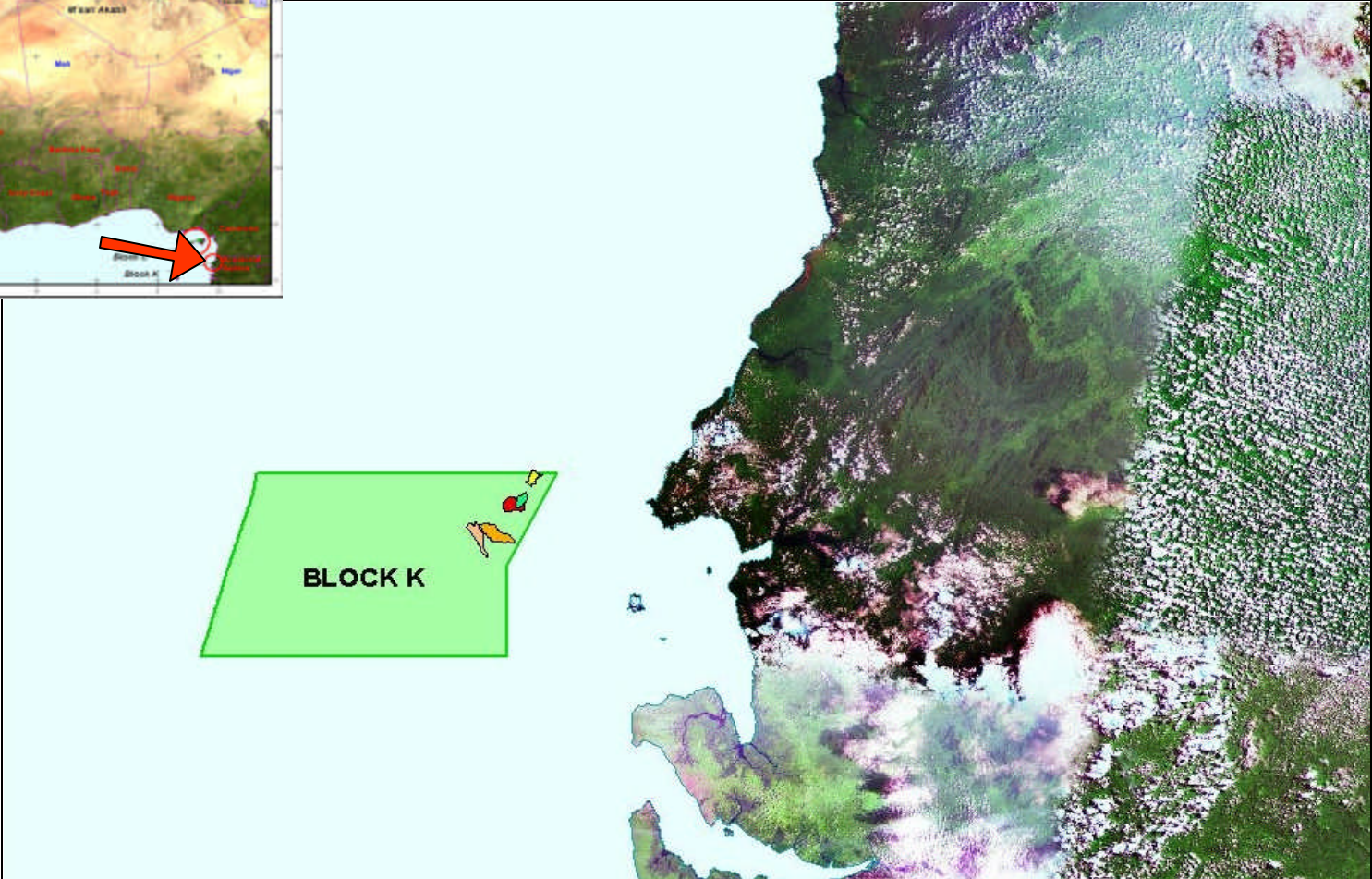
<b>Partners:</b>	Exxon-Mobil (30.55%), Ocean Energy (Devon) (24.44%), SK Corporation (6.11%), GEPetrol (6% carried), Repsol-YPF (32.9%).
<b>Operator:</b>	Exxon-Mobil.
<b>Acreage:</b>	1,970 km <sup>2</sup> .
<b>Exploration Periods:</b>	Second period extension until 31st Jan. 2006
<b>Commitments:</b>	1 well to be proposed by Repsol-YPF.
<b>Work done:</b>	3 wells drilled by Exxon-Mobil, Repsol-YPF re-evaluation of data (in progress).
<b>Results to date:</b>	2 wells with biogenic gas shows, 1 dry hole.
<b>Contract Type:</b>	PSC, . Royalty 12 / 18 %. Taxes 25 %.

# Equatorial Guinea

## Ubicación del Bloque C



# West Africa. EQUATORIAL GUINEA. Block K



# West Africa

## EQUATORIAL GUINEA. Block K

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<b>Partners:</b>	Nexen (50%), Repsol-YPF (50%) (with a Vanco option to take up to 25 %).
<b>Operator:</b>	Nexen.
<b>Acreage:</b>	4,500 km <sup>2</sup> .
<b>Exploration Periods:</b>	currently on the second period until June 2005.
<b>Commitments:</b>	2 exploratory wells during second period.
<b>Work done:</b>	5000 km <sup>2</sup> of 3D seismic. First exploration well already drilled.
<b>Results to date:</b>	significant oil shows and source rock proved.
<b>Contractual Type:</b>	Production Sharing Agreement (5 years term). Royalty 10 /16 %, taxes 25 %.

# Repsol YPF North Africa E&P Acreage



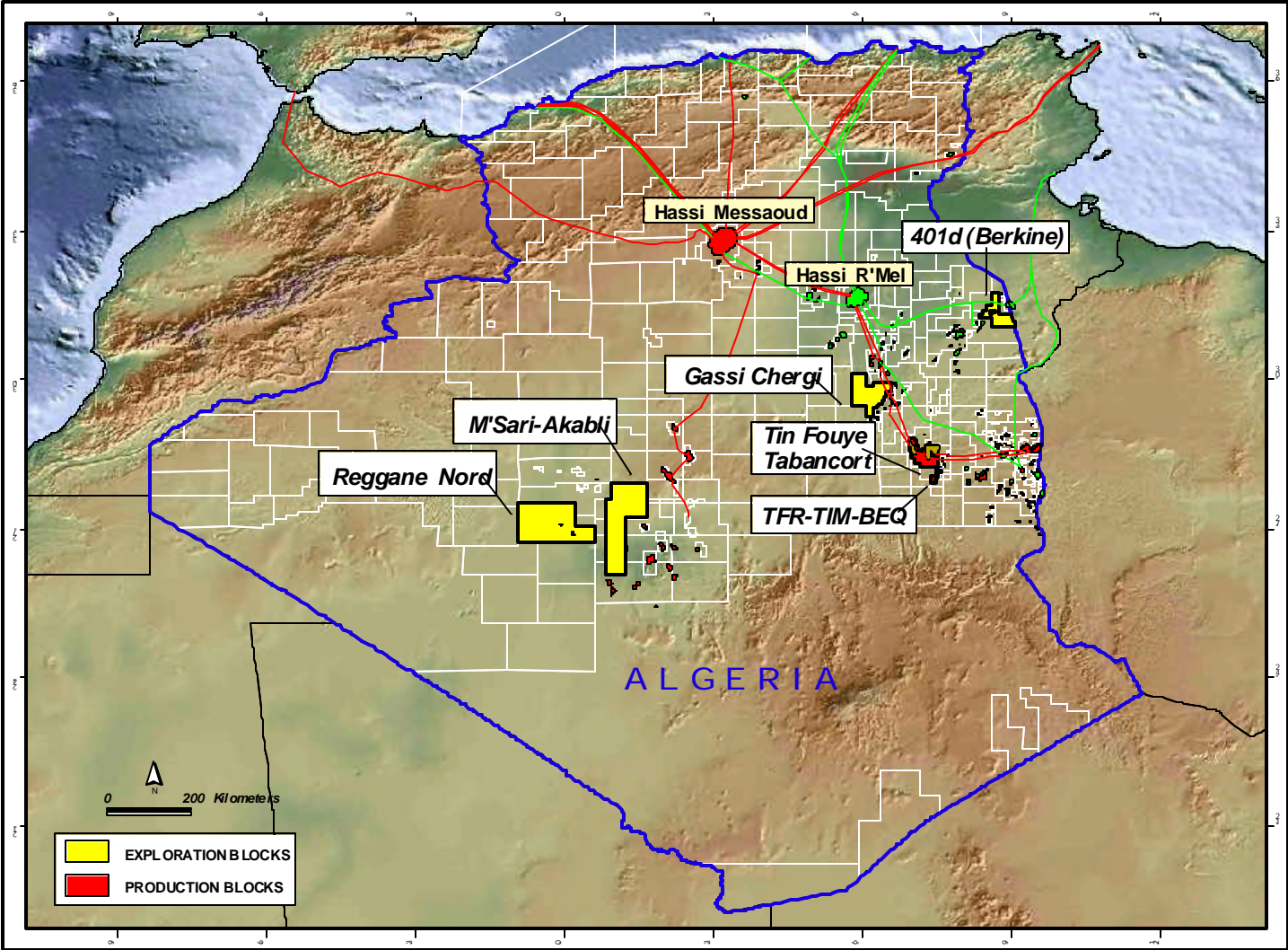
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# **REPSOL YPF**

## **ALGERIA – E&P**



# Assets Location



# TFT Wet Gas Field (Illizi Basin)

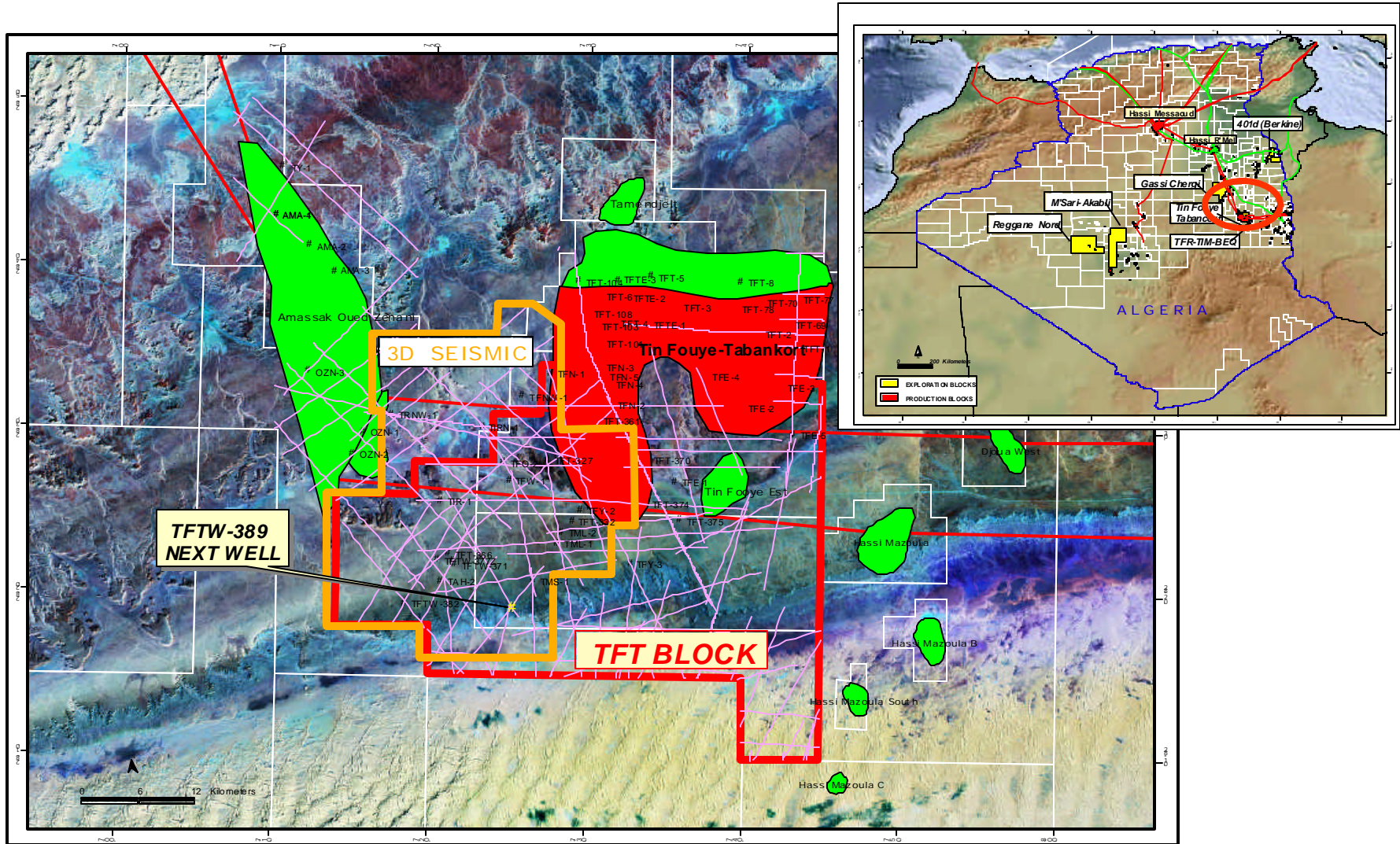
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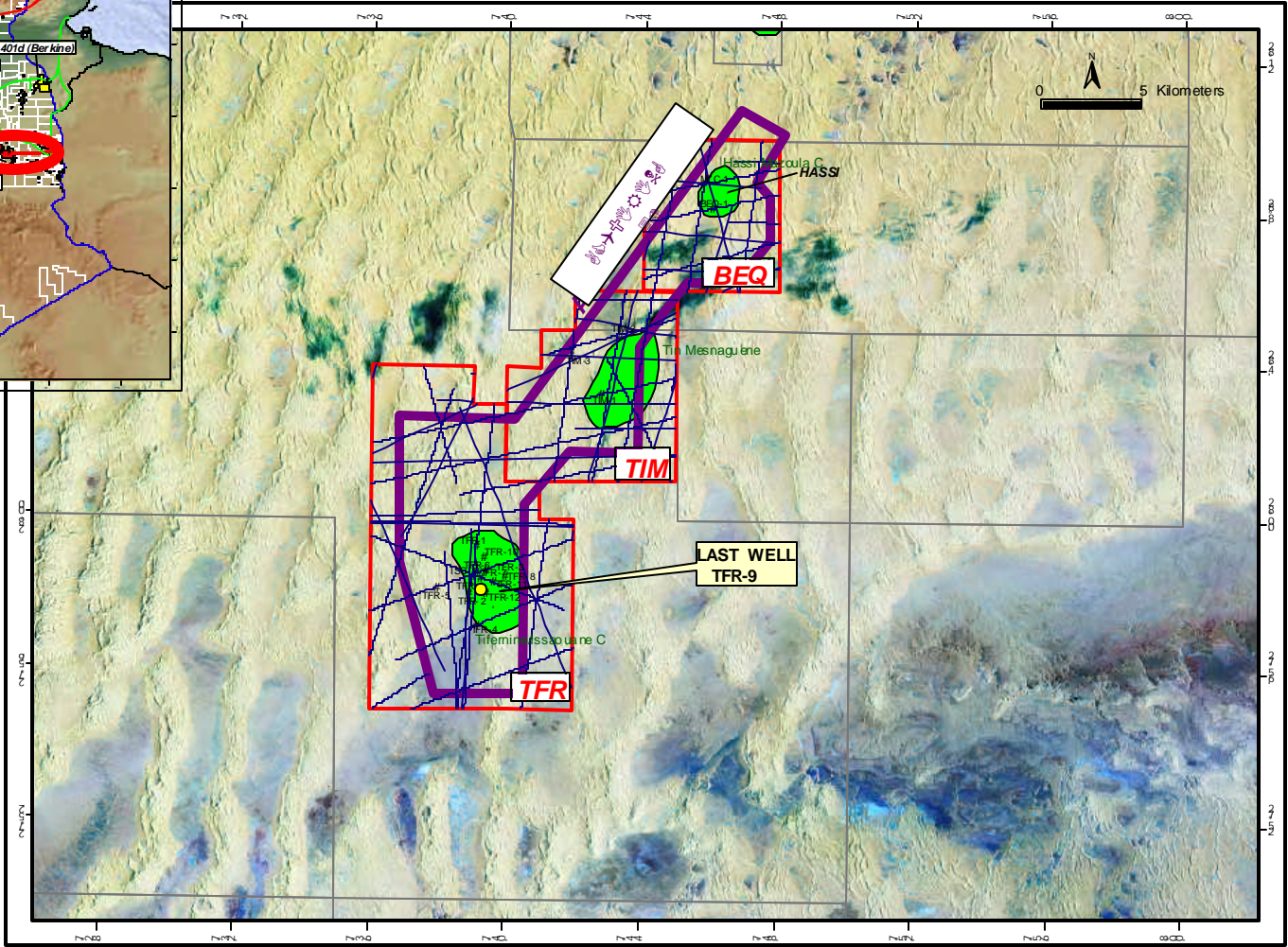
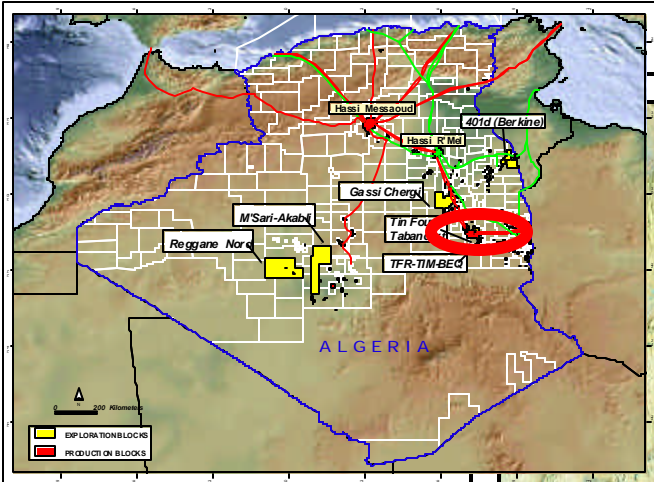
- Partners:** Sonatrach (35%) + Total (35%) + Repsol (30%)  
Operator: Groupment TFT (Operating Company by Sonatrach + Total + Repsol)
- Acreage:** 1,500 km<sup>2</sup>
- Contract type:** Production Sharing (1996 - 2020)
- Production data:** First production: April 1999  
Gross Production 2004: 700 MSCFD Dry Gas + 32,100 Bbls/d LPG + 22,800 Bbls/d Condensate



# TFT Wet Gas Field (Illizi Basin)

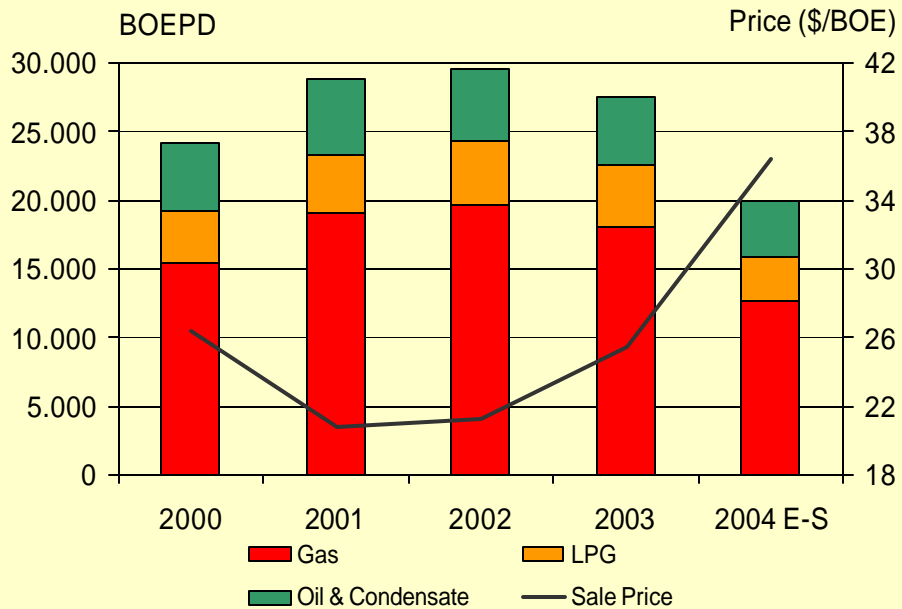


# Issaouane Oil Fields- TFR, TIM & BEQ (Illizi Basin)

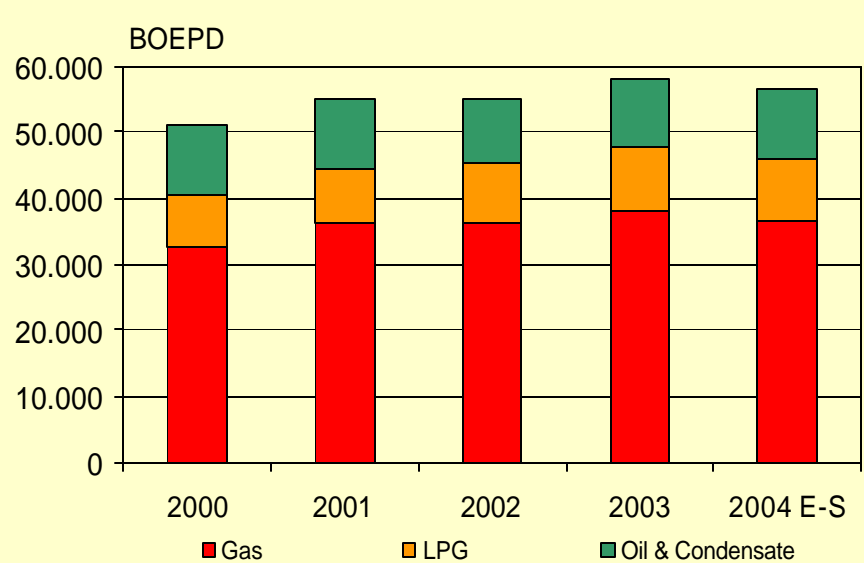


# Algeria - Liquids & Gas Production

## NET PRODUCTION



## W.I. PRODUCTION

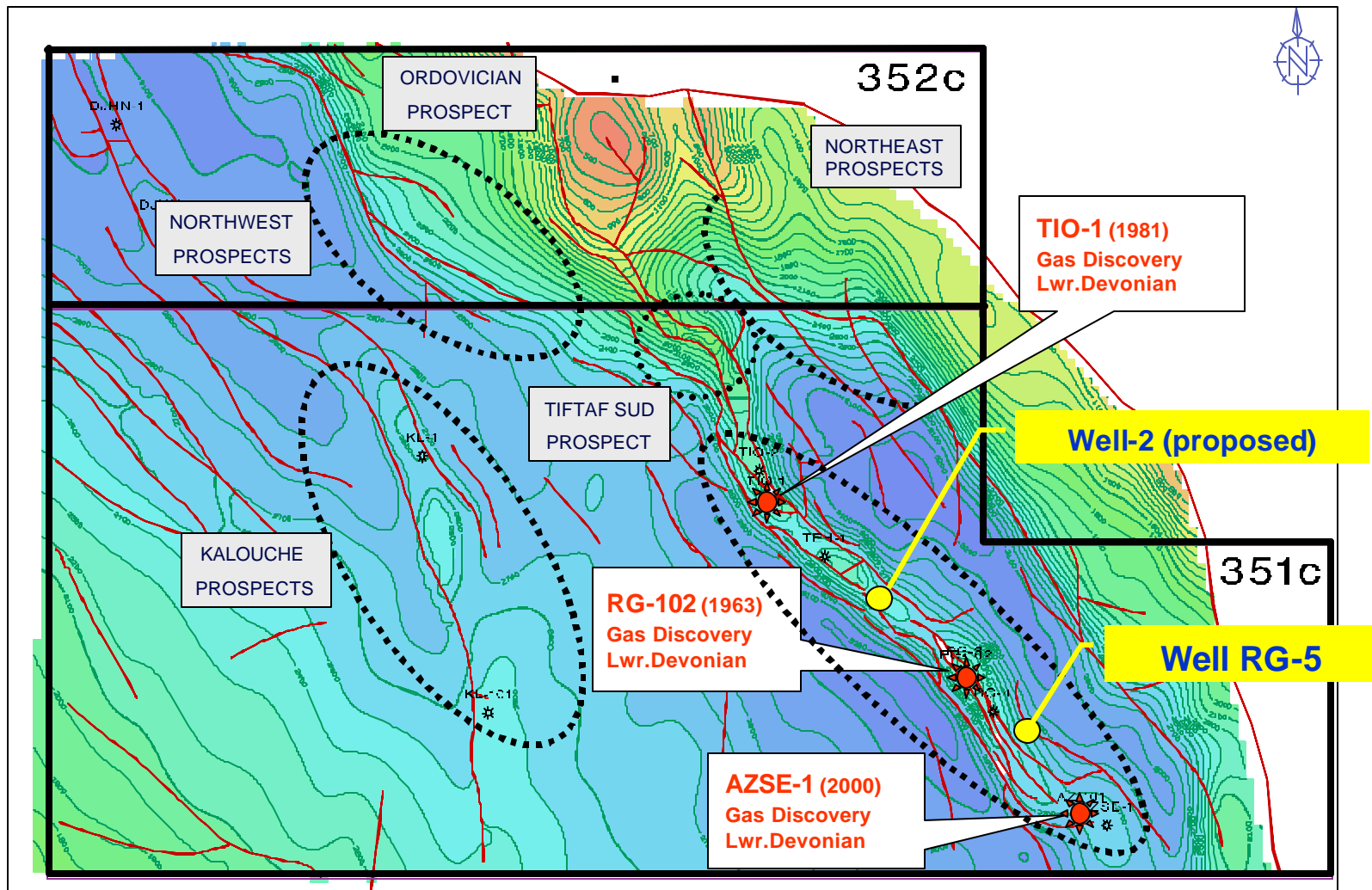


# BLOCKS 351C – 352C (Reggane Basin)

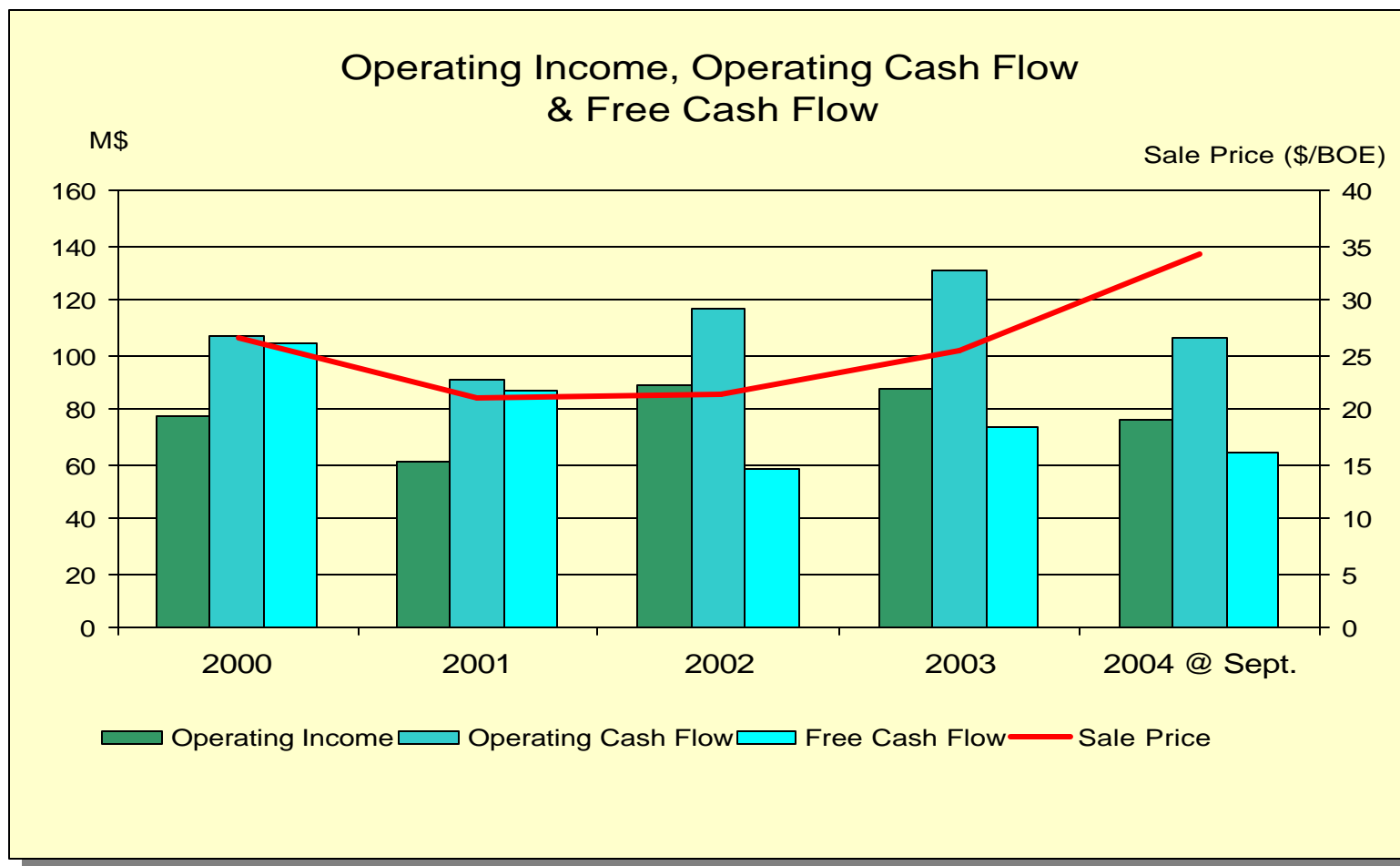


- Partners:** Sonatrach (25.00%), Repsol (33.75% Operator) + RWE (22.50%) + Edison (18.75%)
- Acreage:** 12,212 km<sup>2</sup> (Reggane Basin)
- Exploration Period & Commitments:** 1st Phase (3 years, up to January 12<sup>th</sup>, 2006): 350 km<sup>2</sup> 2D + 100 km<sup>2</sup> 3D + 2 explo wells
- Contract type:** Production Sharing (3<sup>rd</sup> Bid Round).
- Exploration potential:** Several dry gas Devonian discoveries by Sonatrach within the permit area.
- 942 km<sup>2</sup> 3D seismic in 2003
  - 646 km<sup>2</sup> 2d seismic in 2003
- Work program:** First Well (RG-5) spud by late November 2004 (TD 4,850 m) with Devonian and Ordovician targets
- Second Well to be drilled back-to-back

# Blocks 351c – 352c (Reggane Basin) Reggane (Discoveries, Main Prospects & Leads)



# Algeria - Operating Income & Cash Flow



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# **NORTH AFRICA:**

## **LIBYA**

# LIBYA

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Libya with 1,760,000 km<sup>2</sup> is one of the largest African countries and has a population of only 6 million (2.8 pop./km<sup>2</sup>).

85% of the population lives in the Mediterranean coastal region. The population is very young (40% under 15 years) and the unemployment high (30%). Most of the employment is in the public sector. Alphabetization is 85%.

The Government is currently promoting the private sector through a privatization of some 360 small State owned companies (mostly in agriculture, construction and industrial sectors).

With this policy the Government expects to reduce the unemployment, the public sector and to create new jobs for a very young population.



# LIBYAN ECONOMY

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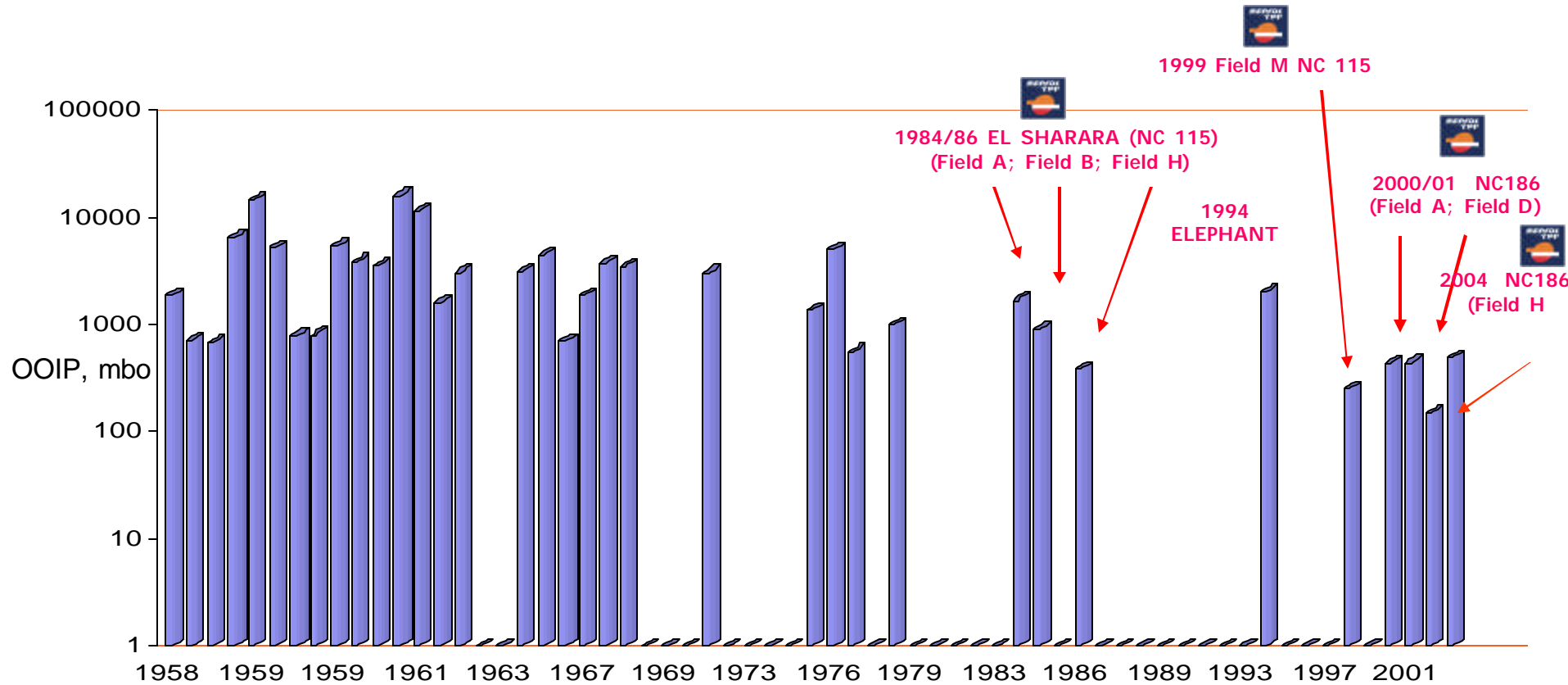
The Libyan economy today is highly dependant on the oil sector.

Oil reserves are estimated at 30 BBO (60 years life with an annual production of 500 MMBO).

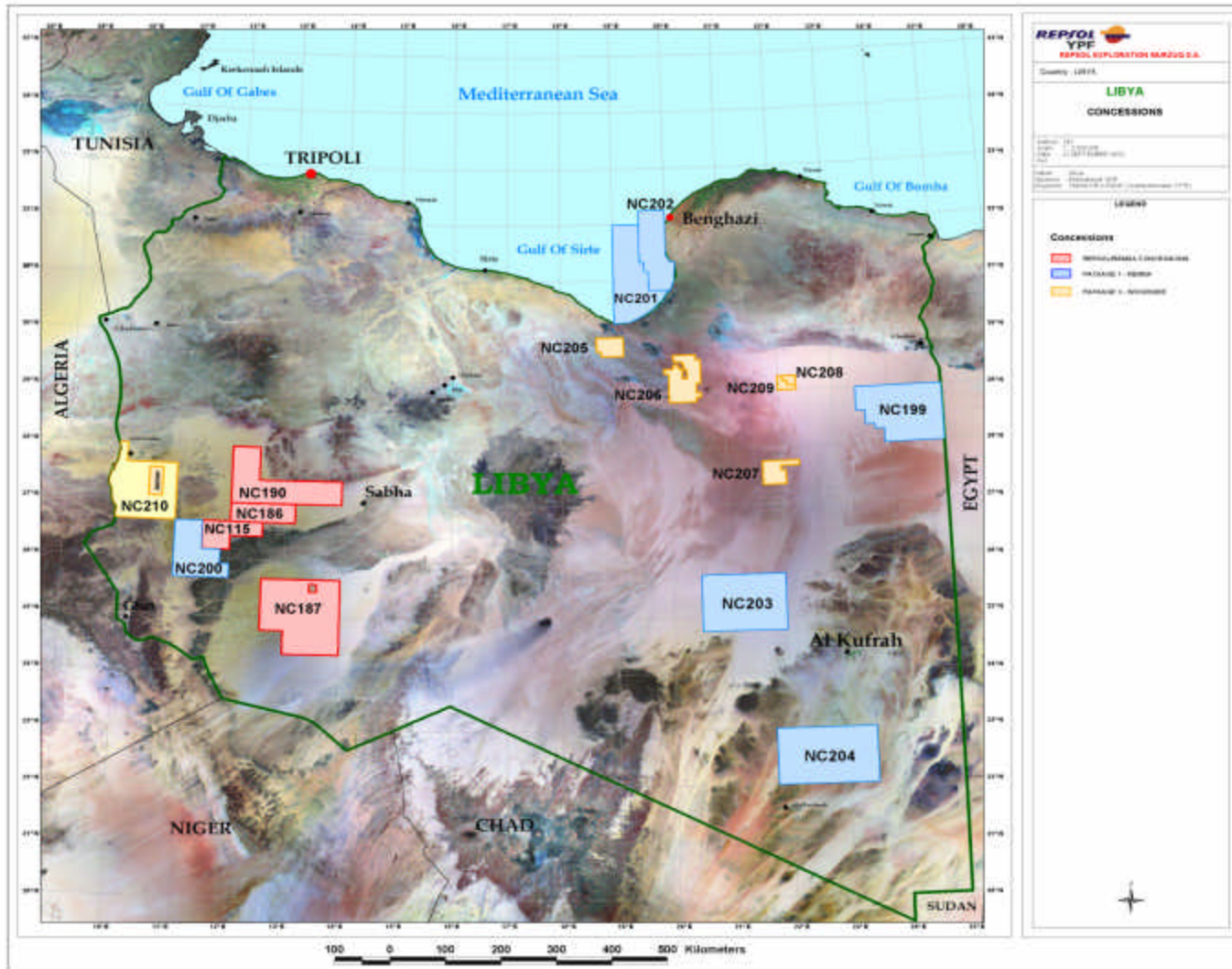
The GDP is around 25 B USD (60% oil). Exports represent some 15 B USD (95% oil). Imports are estimated at only 6 B USD.

The main Libyan companies are NOC (Oil), NASCO (Trading of goods), GECOL (Electricity) and the National Company for pharmaceutical and medical services.

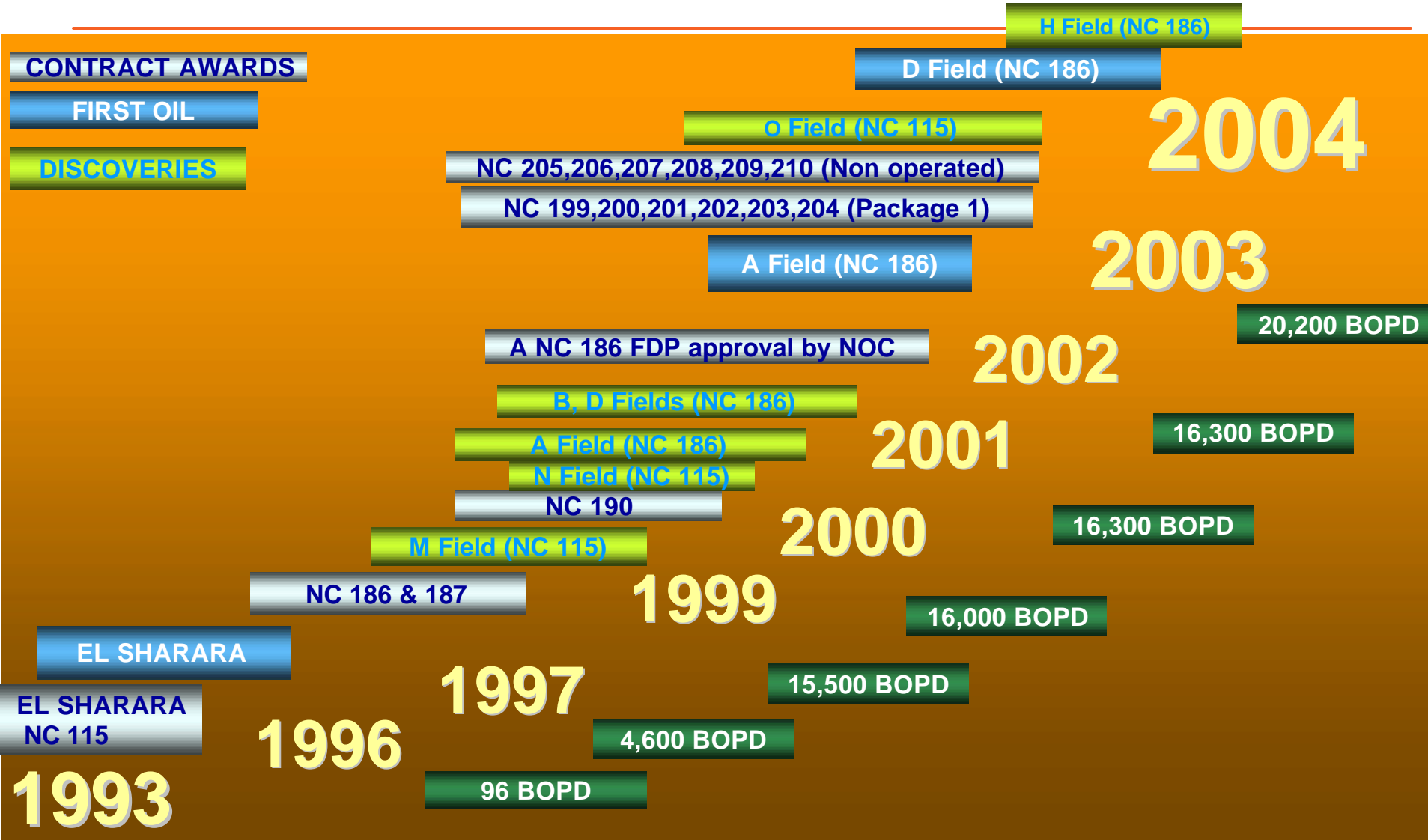
# Libya Big Discoveries



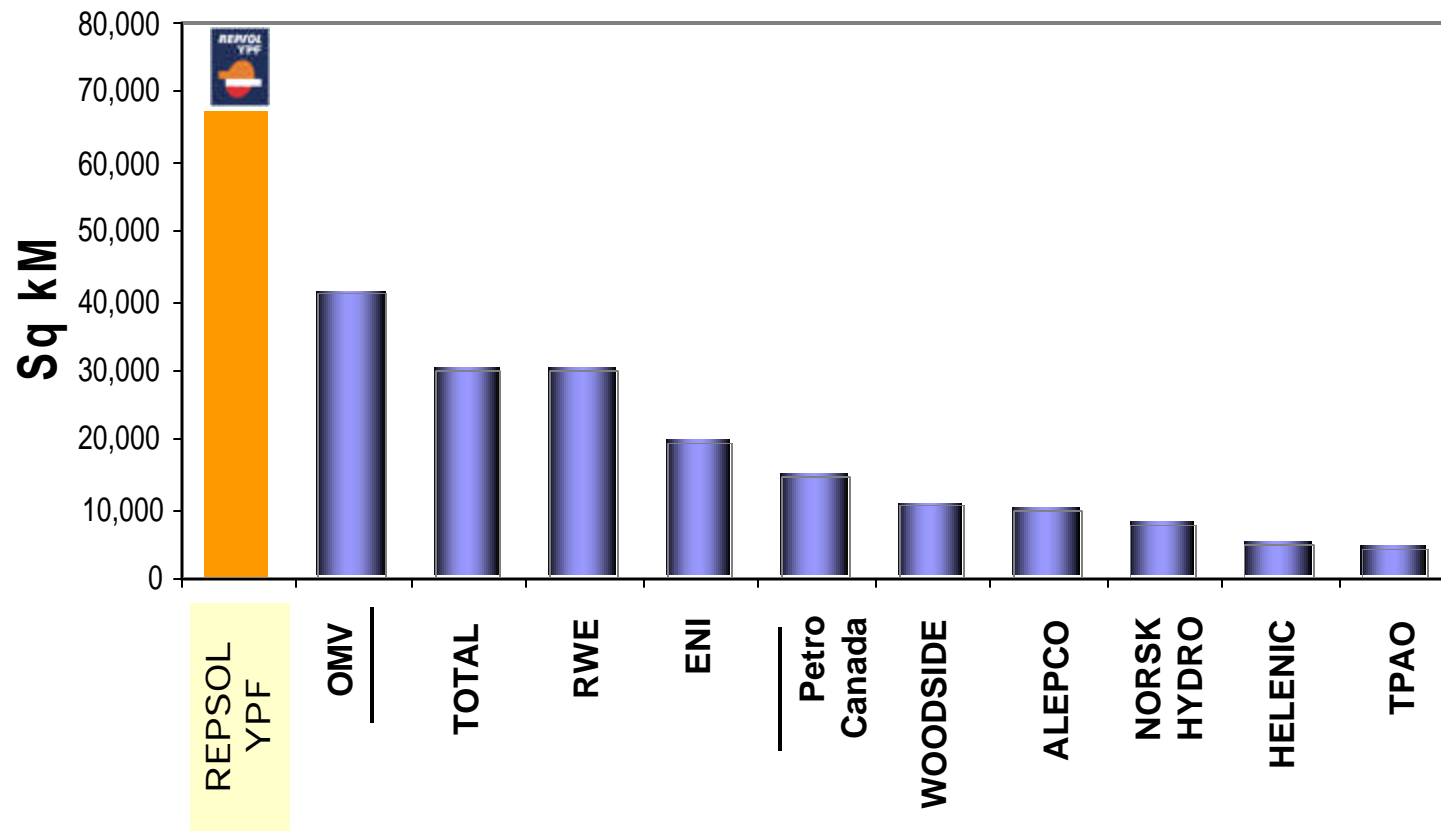
# Repsol YPF in Libya



# Growing Activities



## REPSOL YPF IS THE FIRST FOREIGN COMPANY IN NET ACREAGE

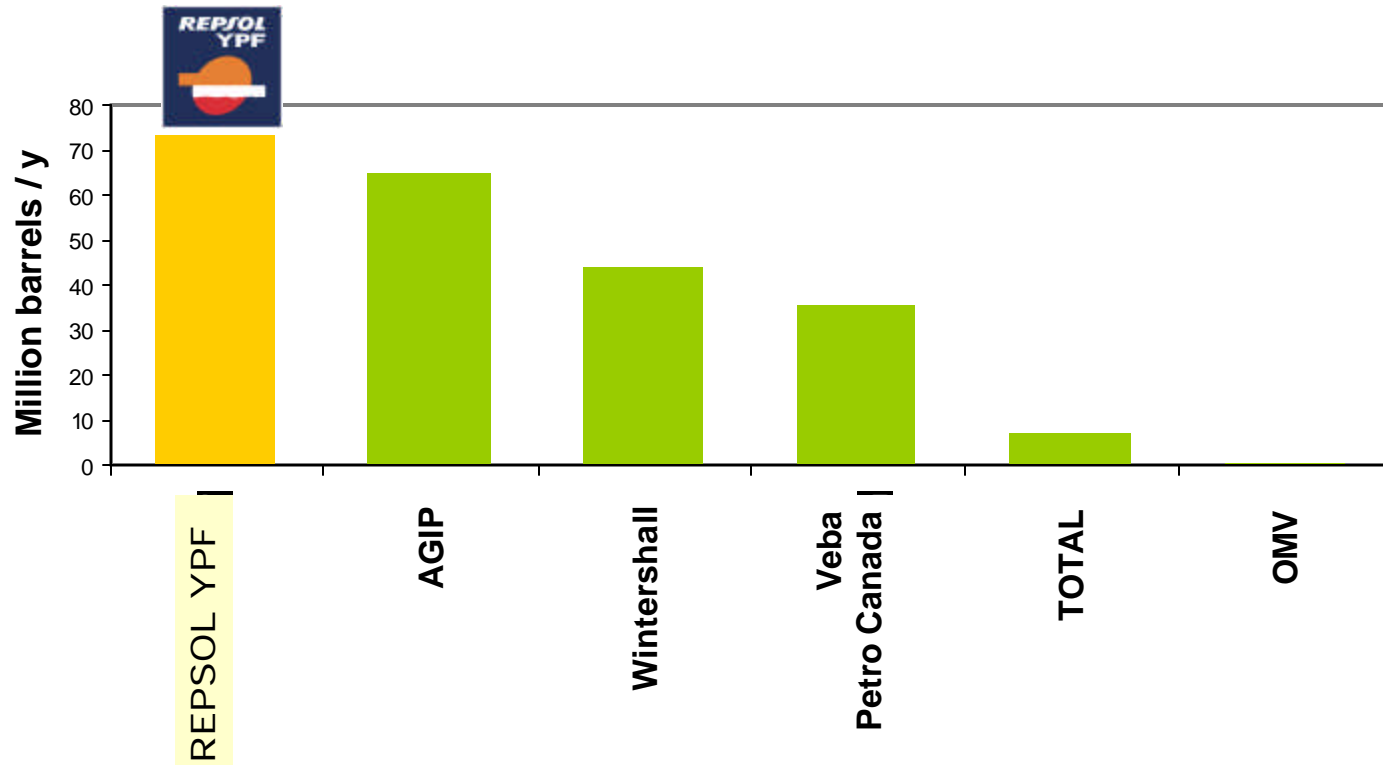


Source: Wood Mackenzie

# Operated Oil Production 2003



## FIRST FOREIGN COMPANY IN OPERATED OIL PRODUCTION

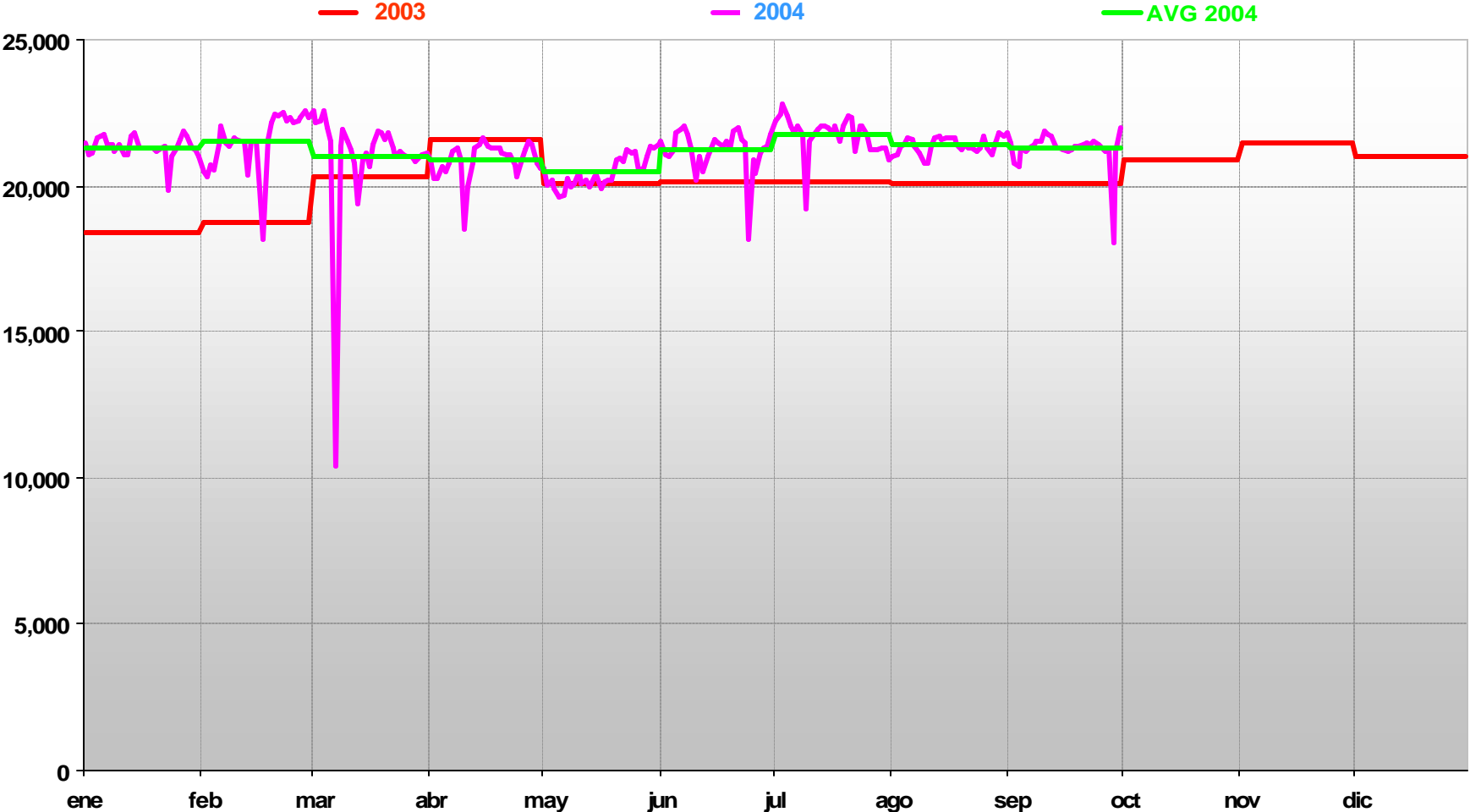


Source: Wood Mackenzie

# Net Daily Production



NET HCL DAILY PRODUCTION (bopd)



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# MIDDLE EAST



The Persian Gulf is the most prolific oil basin of the world (2/3 of world remaining oil reserves).

The region is also one of the world most prolific gas basins.

Since 2000 Repsol YPF is very active looking for exploration acreage through regional studies in Iran, Saudi Arabia and Irak:

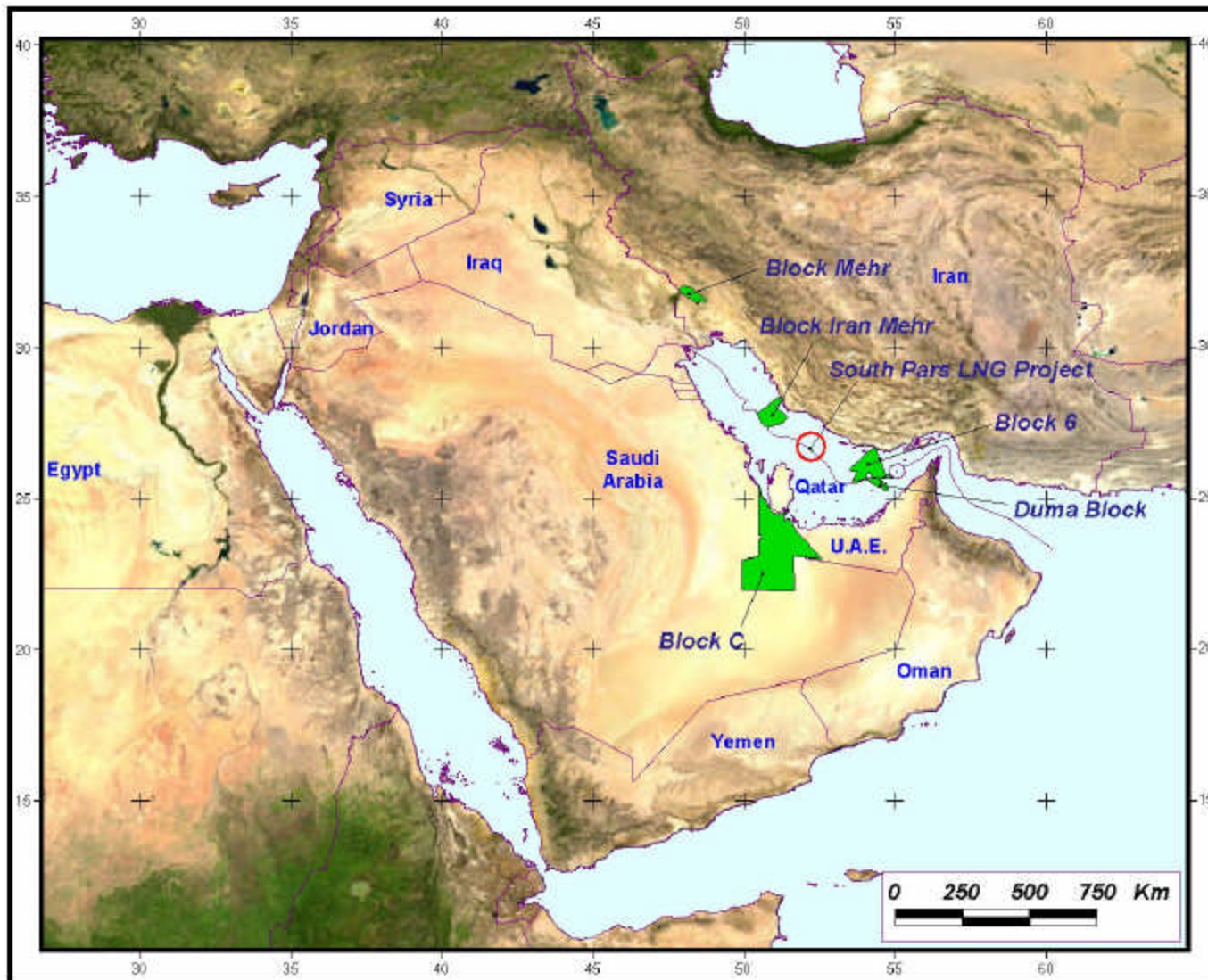
Signature of 2 exploration blocks in Iran in 2004.

Present in Block Mehr (Iran) since 2002.

Signature of Block C in Saudi Arabia in 2004.

Signature of a Project Framework agreement with Shell and NIOC for evaluation of an LNG project, in Iran, in 2004 (currently evaluating the Master Development Plan).

# REPSOL-YPF Middle East E&P Acreage



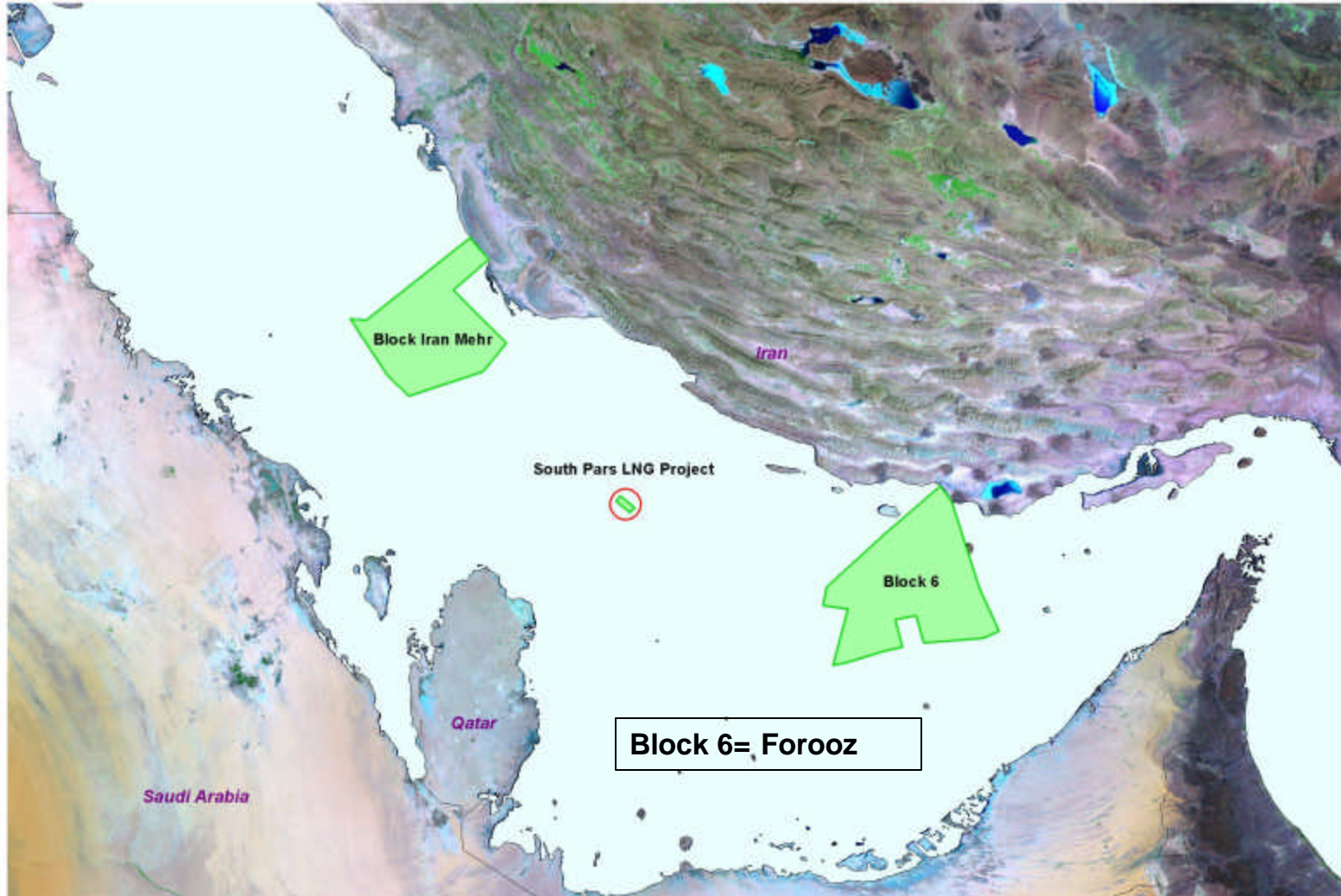
# IRAN Onshore - Block Mehr

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- Contract:** Exploration Service Contract. Signed 2001.
- Operator:** OMV (34%); Repsol YPF (33%); Siperol (33%)
- Exploration Period:** 4 years
- Commitments:** Acquisition 2D Seismic (1,000 km) & 3 exploratory wells.
- Work Done:** Acquired 980 km 2D seismic and spud well #1 in May 2004.
- Results to date:** Drilling first well.
- Contractual terms:** “Buy-back” contract. No relinquishment requirements.

# IRAN OFFSHORE - Blocks 2 and 6



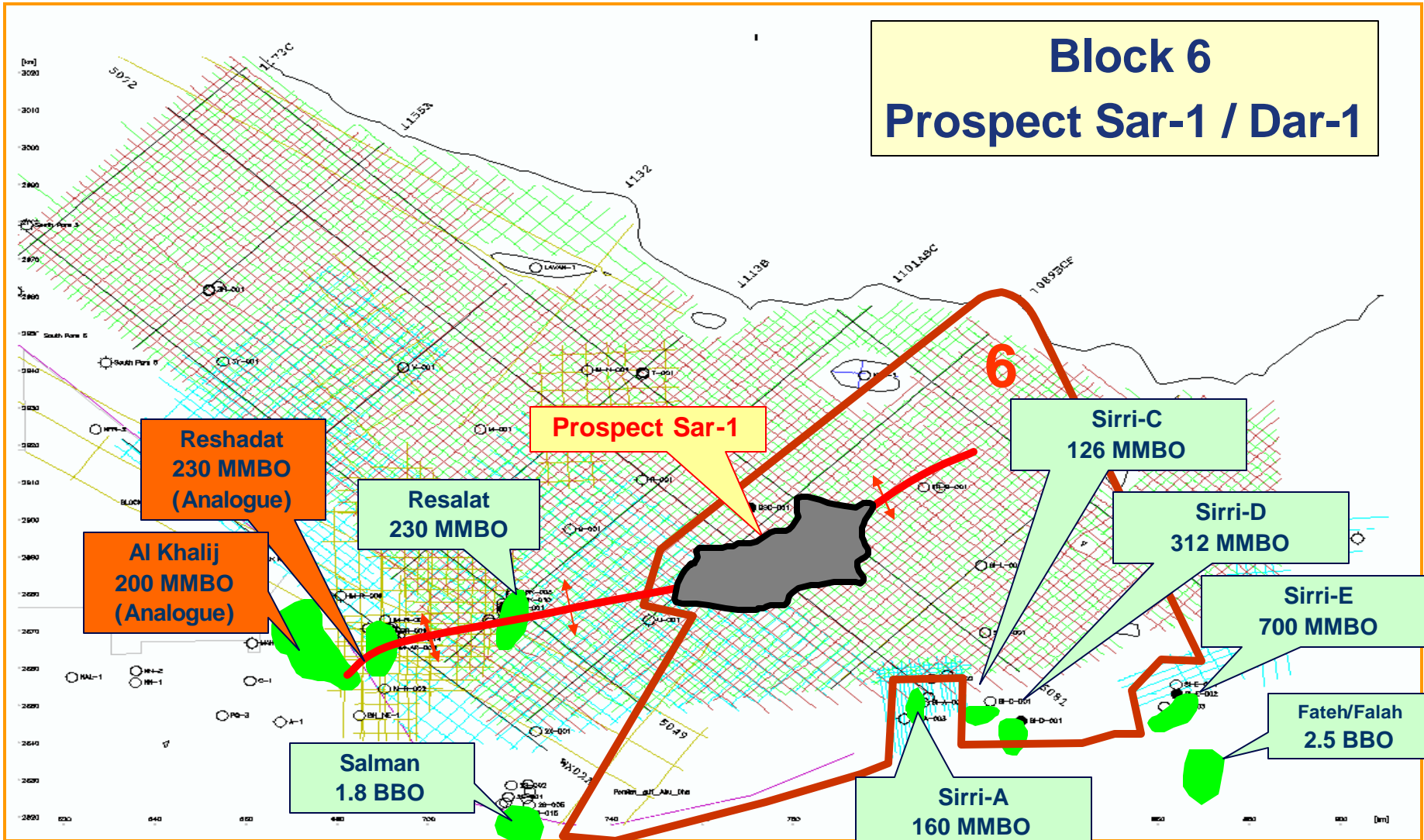
# IRAN Offshore - Blocks 2 and 6

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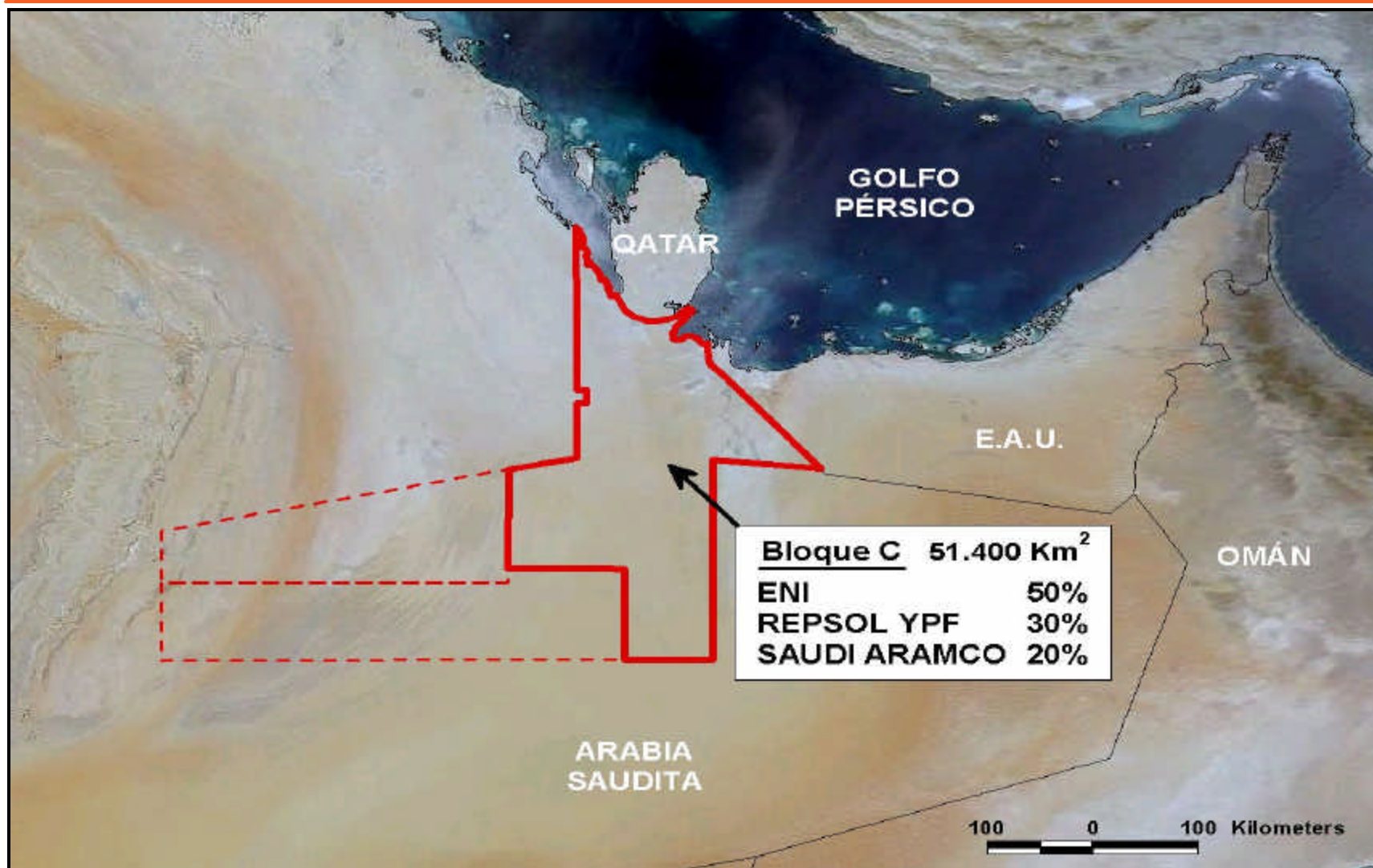


- Contract:** Exploration Service Contract. One Single Contract for both Blocks. Signed October 13th, 2004.
- Operator:** Repsol YPF (100%)
- Exploration Period:** 2.5 years
- Commitments:** Reprocessing (19,000 kms) & two exploratory wells (one per block).
- Contractual terms:** “Buy-back” contract.  
Two blocks in one license for recovery of exploration costs. No relinquishment requirements.

# IRAN OFFSHORE - Blocks 2 and 6



# SAUDI ARABIA - Block C



# SAUDI ARABIA - Block C

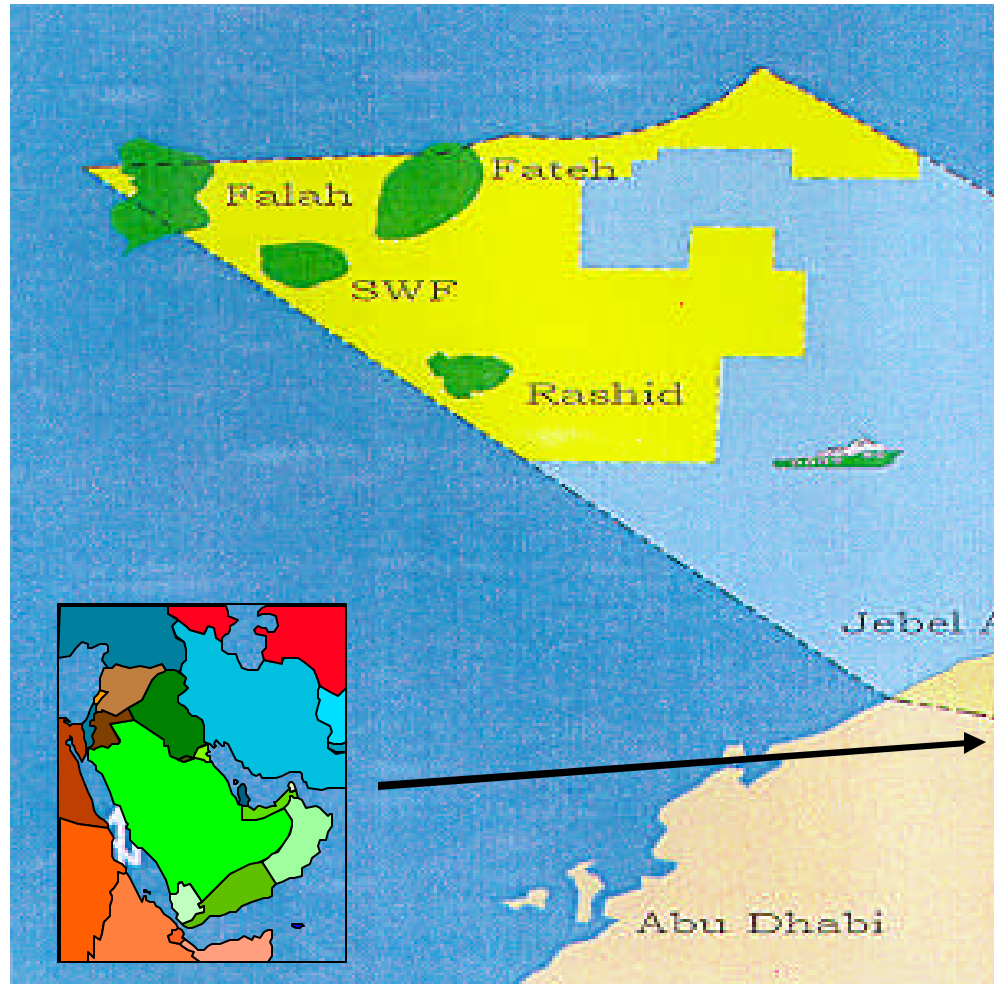


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<b>Operator:</b>	ENIREPSA Gas Company (ENI 50%, Repsol YPF 30%, Saudi Aramco 20%). Signed: April 30, 2004
<b>Acreage:</b>	50,000 km <sup>2</sup>
<b>Exploration Period:</b>	10 years divided in 3 subperiods:
<b>Commitments:</b>	Seismic Acquisition: 5000 km 2D. Reprocessing: 6000 km 2D. 4 wells.
<b>Work done:</b>	ENIREPSA established in Al Khobar. In process of awarding seismic processing and acquisition contracts.
<b>Contractual terms:</b>	A) Exploration: Contract enables only for exploration of “free gas” reserves. B) Development & Production: 25 years period since the start of the production.



# Dubai Concession



## Partners

<b>DUMA :</b>	
<b>REPSOL</b>	25%
<b>TOTAL</b>	25%
<b>DPC (ConocoPhillips)</b>	32,5% (Operator)
<b>RWE/DEA</b>	10%
<b>WDP</b>	5%
<b>TOTAL</b>	2,5%

**Total Concession: 2039 Km2 (503.870 acres)**

**Total Fields : 276 Km2 (68.349 acres)**

**Signature of Contract : 6 / August / 1961**

**Expiry of Contract : 6 / August / 2012**

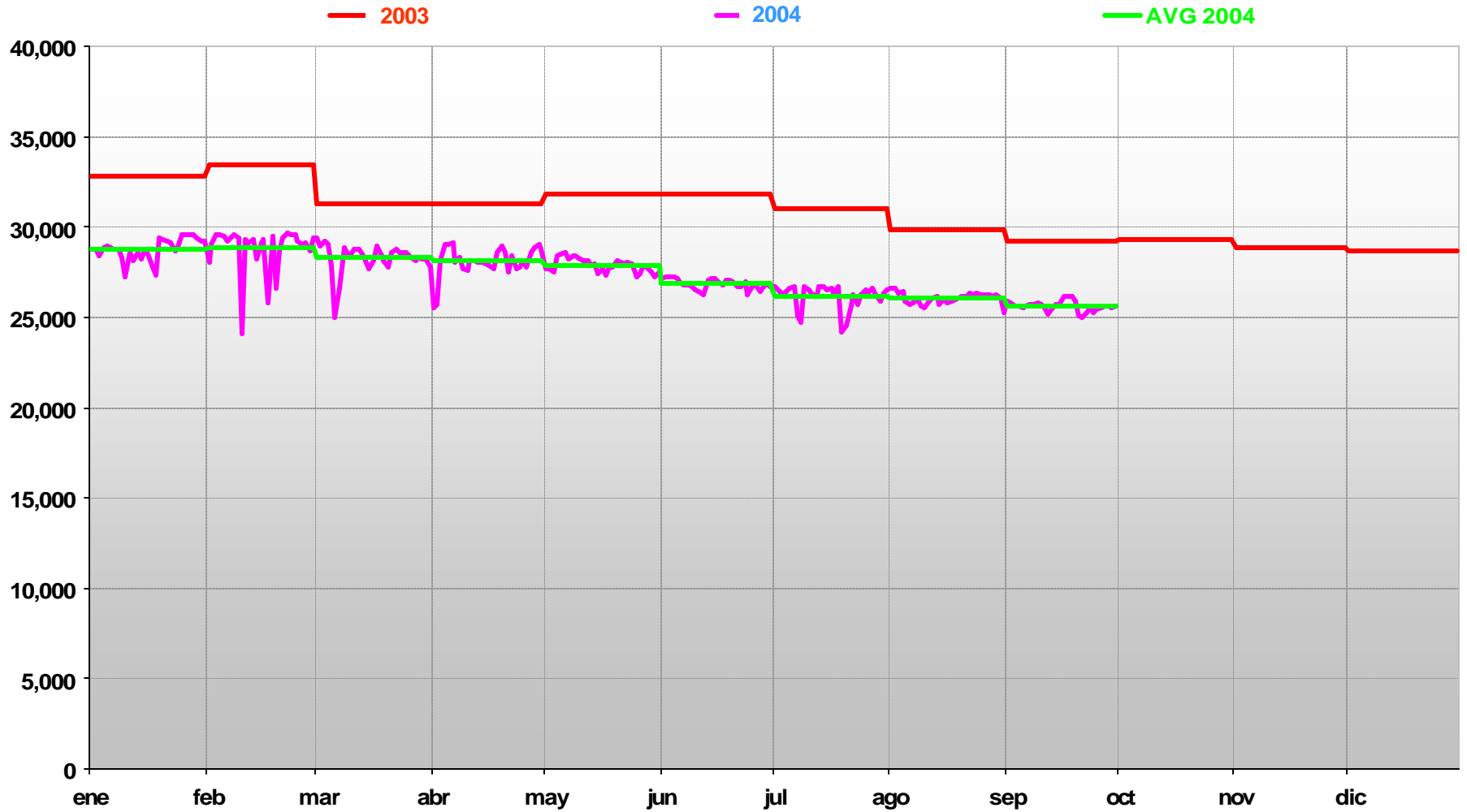
**Start of Production: September 1969**

**No. Of wells drilled: 439**

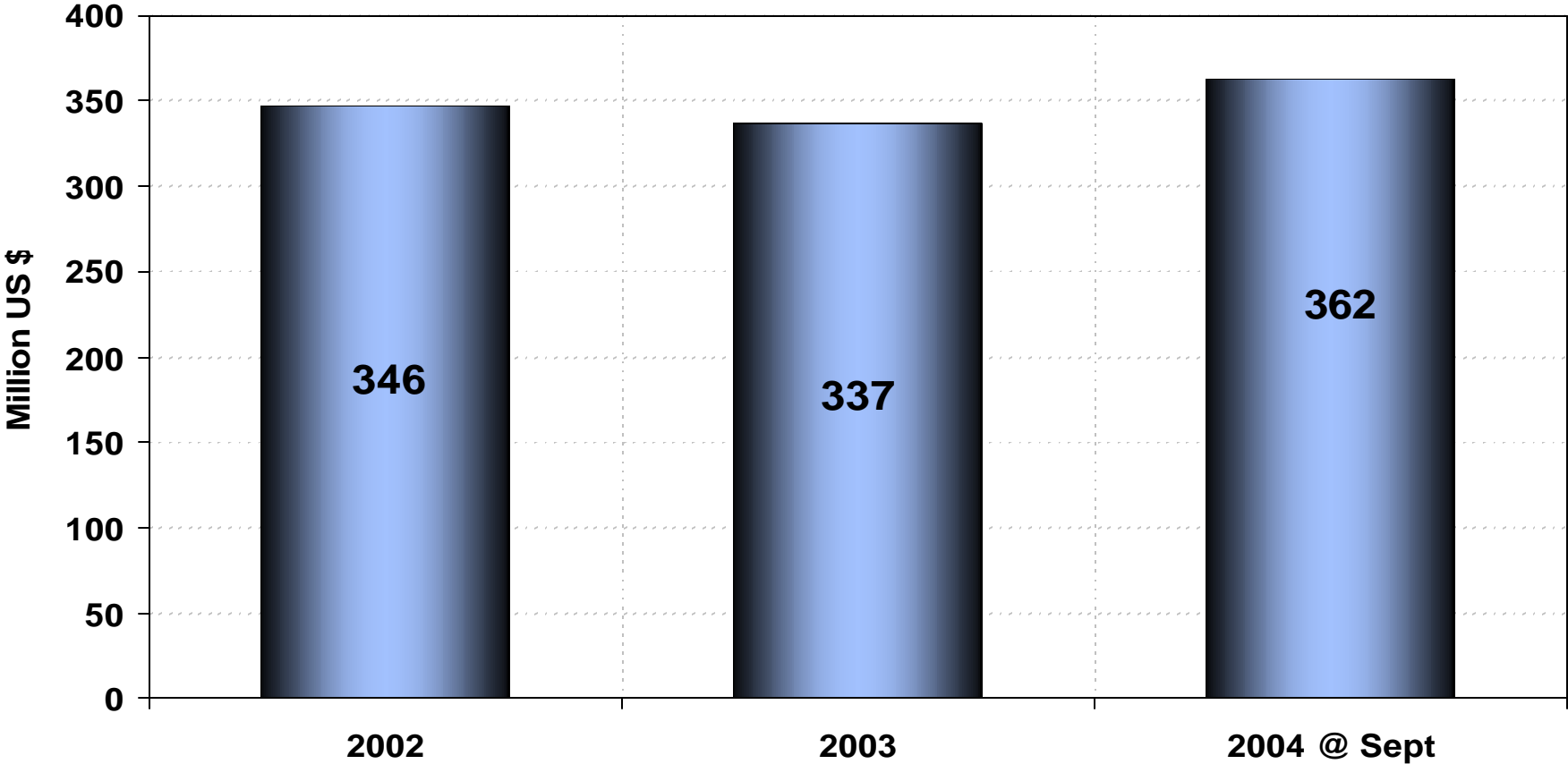
**No. Of platforms : 71**

**Pipeline length : 507 km**

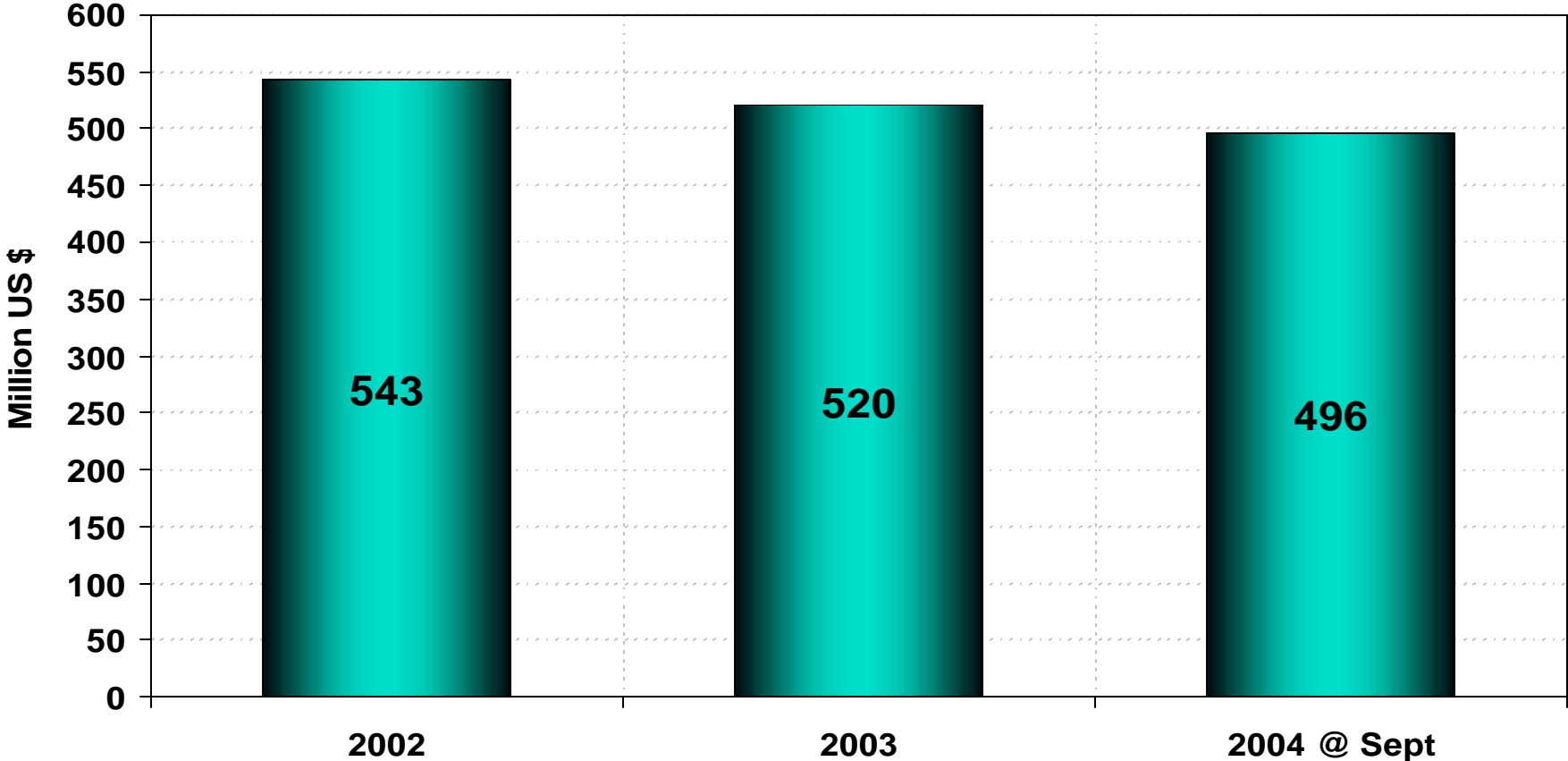
### NET HCL DAILY PRODUCTION (bopd)



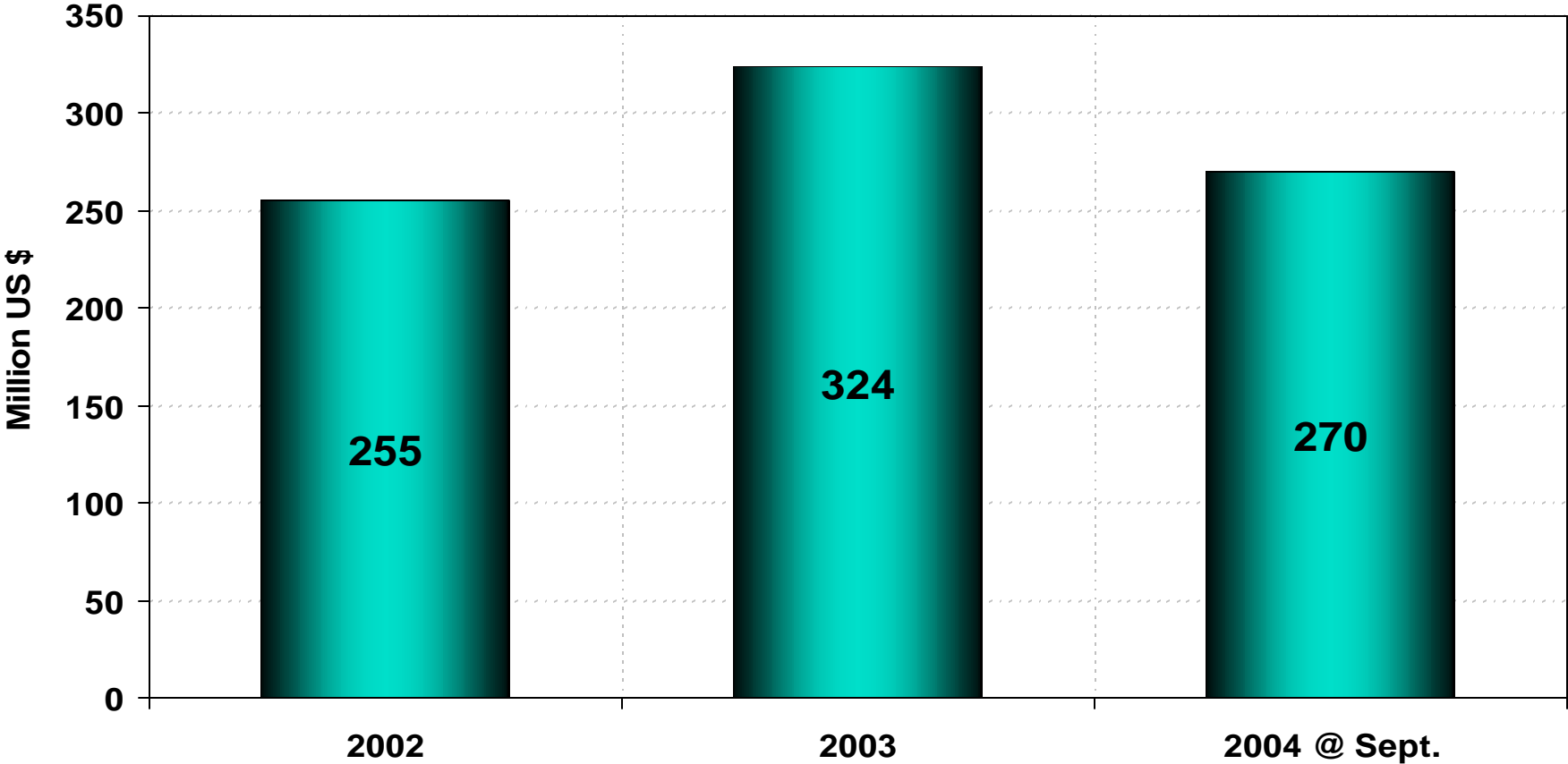
# EAA: Operating Income



# EAA: Operating Cash Flow



# EAA: Free Cash Flow



# Summary (1)

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Repsol YPF is present in 11 countries with 39 contracts covering 78 blocks with a gross acreage of 347,000Km<sup>2</sup>.

Repsol YPF is currently associated with over 20 E&P companies and is the Operator in most of the ventures (75% of the acreage and 85% of the contracts)

The current net production sept.2004 is 21,4 MMBOE with a lifting cost of 2.22 USD/boe and a Net Operating Income of 362 MMUSD.

In 2004 we have drilled 6 wildcats with 3 discoveries being the most important de H1 well in Libya with more than 100 MM BOE.

A significant development investment has been done in NC186 in Libya.

## Summary (2)

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The main future projects( 2005/6 ) of this region are the following:

### **LIBYA**

To fully develop NOC NC186 discoveries, fields A, D, B and H.

To drill 11 wildcats in Murzuk and other basins.

### **ALGERIA**

To drill 2 Exploration wells in Reggane gas discovery; to perform the fracture test in Gas Chergui gas discoveries , to appraise the 401-D oil discovery .

### **SPAIN**

To double the Gaviota gas Storage up to 1.7 BCM and to drill 2 wells in Canary Islands Acreage.

# Summary (3)

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## IRAN

To perform the MDP of Persian LNG Project. To Evaluate the Mehr discovery and to drill 2 offshore exploration wells.

## SAUDI ARABIA

To carry out a seismic survey and interpretation to start the drilling campaign.

## NW. AFRICA

To drill two Exploration wells in Equatorial Guinea. Two Exploration wells in Sierra Leone and to continue with new acreage acquisition



# Repsol YPF

## EUROPE, AFRICA & ASIA ASSETS