

## « Upstream » Map - Total in 2009

### 1-NORTH AMERICA

#### 1-1 Oil and gas (Production in kboe/d : 24 including United States : 16)

White Hills (Alaska)  
Joslyn (Canada)  
Northern Lights (Canada)  
Surmont (Canada)  
Emerillon (Canada)  
Chesapeake (Barnett Shake) (United States)  
Virgo (Gulf of Mexico)  
Matterhorn (Gulf of Mexico)  
Tahiti (Gulf of Mexico)  
Chinook (Gulf of Mexico)

#### 1-2 Re-gasification terminal

Sabine Pass (United States)  
Altamira (Mexico)

### 2-SOUTH AMERICA

#### 2-1 Oil and gas (Production in kboe/d : 182 including Venezuela : 54 (including non-consolidated equity affiliates) and Argentina : 80)

Yucal Placer (Venezuela)  
Block 2C (Angostura – off Venezuela)  
Block 4 (Cocuina – off Venezuela)  
Pandrocedeno (Zuata, Venezuela)  
Cupiaga (Colombia), Cusiana (Colombia), Niscota (Colombia)  
Rio Hondo (Bolivia), Ipati, Aquiano (Bolivia)  
San Alberto (Bolivia)  
San Antonio (Bolivia)  
Block XX West (Bolivia)  
BC-2 (Brazil)  
BM-C-14 (Brazil)  
San Roque (Argentina)  
Aguada Pichana (Argentina)  
El Churqui (Argentina)  
Tierra del fuego (Aries, Canadon Alfa, Carina...)

### 3-EUROPE

#### 3-1 Oil and gas (Production in kboe/d : 613 including Norway : 327 and United Kingdom : 217)

Snorre/Vigdis (off Norway)  
Mikkel (off Norway)  
Asgard (off Norway)  
Onyx (off Norway)  
Kristin (off Norway)  
Oseberg (North sea)  
Snohvit (off Norway)  
Tyrihans (off Norway)  
Alwyn (North sea)  
Islay (North sea)  
Troll (off Norway)

Laggan / Tormore (North sea)  
Otter (North sea)  
Jura (North sea)  
Elgin-Franklin (North sea)  
Bruce (North sea)  
Sleipner B (North sea)  
Ekofisk (North sea)  
J3/J6/K4/K5/K6/L4 (North sea)  
K5F (North sea)  
Shtokman (Barents sea)  
Lacq (France), Tempa Rossa (Italy)

### **3-2 Re-gasification terminal**

South Hook (United Kingdom)  
Fos-Cavaou (France)  
Adria (Croatia)

### **3-3 Power plant**

Mardyck (France)

### **3-4 LNG**

Snohvit (Norway)  
Shtokman (Barents sea)

## **4-AFRICA**

### **4-1 Oil and gas (Production in kboe/d : 749 (including non-consolidated equity affiliates) including Angola : 191, Republic of Congo : 106, Gabon : 71, Libya : 60 and Nigeria : 235)**

Tin Fouyé (Algeria)  
Tabankort (Algeria)  
Timimoun (Algeria)  
C 137 (Al Jurf) (off Libya)  
NC 186 (Libya)  
NC 191 (Libya)  
NC 115 (El Sharara) (Libya)  
Mabruk (Libya)  
Ta7 and Ta8 (Mauritania)  
OML 99 (Amenam) (Gulf of Guinea)  
OML 118 (Bonga) (Gulf of Guinea)  
OML 130 (Akpo, Egina) (Gulf of Guinea)  
OML 58/Obite (Nigeria)  
OML 138 (Usan)/ 139 (Gulf of Guinea)  
OPL 247 / 221 (Gulf of Guinea)  
OPL 257 (Gulf of Guinea)  
OPL 279 (Gulf of Guinea)  
OPL 285 (Gulf of Guinea)  
OML 136 / 79 (EA) (Gulf of Guinea)  
OML 112/117 (Gulf of Guinea)  
OML 102 (Ekanga, Ofon II) (Gulf of Guinea)  
Sandy gaz, Kita Edem, Lungahe, Dissoni (off Cameroon)  
Block 31(off Angola)  
Block 32 (off Angola)  
CLOV (off Angola)

Pazflor (off Angola)  
Dalia (off Angola)  
Block 33 (off Angola)  
Block 17-06 (off Angola)  
Girassol (Jasmim and Rosa operated through Girassol (Block 17)) (off Angola)  
Libondo (off Congo)  
Nkossa (off Congo)  
Moho-Bilondo (off Congo)  
Mer Très Profonde Sud (off Congo)  
Block 15-06 (off Congo)  
Rabi Kouna (Gabon)  
Atora (Gabon)  
Daiba (off Gabon)  
Anguille (off Gabon)  
Aloumbé (Gabon)  
Bemolanga (Madagascar)

#### **4-3 LNG**

Brass LNG (Nigeria)  
Nigeria LGN (Nigeria)  
Angola LNG (Angola)

#### **5 – MIDDLE EAST**

**5-1 Oil and gas (Production in kboe/d : 438 (including non-consolidated equity affiliates) including United Arab Emirates : 214 and Qatar : 141)**

Block 6 (Oman)  
Blocks 69-70 (Yemen)  
Block 5 (Jannah) (Yemen)  
Block 10 (East Shabwa) (Yemen)  
Dolphin (off Qatar)  
Al Khalij (off Qatar)  
South Pars, Qatargas I and II (off Qatar)  
Abu Al Bukhoosh (off United Arab Emirates)  
Adma, Adama A (off United Arab Emirates)  
Adco (United Arab Emirates)  
Dorrod (off Iran)

#### **5-2 Power plant**

Taweelah A1 (United Arab Emirates)

#### **5-3 LNG**

Oman LNG/Qalhat LNG (Oman)  
Yemen LNG (Yemen)  
Adgas (off United Arab Emirates)  
Qatargas I (Qatar)  
Qatargas II (Qatar)

## **6 – ASIA-PACIFIC**

### **6-1 Oil and gas (Production in kboe/d : 251 including Indonesia : 190 and Thailand : 36)**

Tunu (off Indonesia)  
Tambora (Indonesia)  
Handil (Indonesia)  
Tengah (off Indonesia)  
Bekapai (off Indonesia)  
Sisi-Nubi (off Indonesia)  
Peciko (off Indonesia)  
S.E. Mahakam (off Indonesia)  
Stupa, West Stupa, East Mandu (off Indonesia)  
Block B (Maharaja Lela) (off Brunei)  
Yadana M-5, M-6 (off Myanmar)  
Bongkot (off Thailand)  
PM 303 and 324 (off Thailand)  
Sulige (China)  
DBSLC-03 (Vietnam)  
DBSLC-02 (Vietnam)  
15-1/05 (off Vietnam)  
MLJ2-06 (off Brunei)  
Block B (Maharaja Lela) (off Brunei)  
Ichthys (off Australia)

### **6-2 Re-gasification terminal**

Hazira (India)

### **6-3 Power plant**

Bang Bo (Thailand)

### **6-4 LNG**

Ichthys LNG (Australia)  
Bontang (Indonesia)

### **6-5 LPG storage**

South Asia LPG (India)

## **7 – CIS**

### **7-1 Oil and gas (Production in kboe/d : 24 including Azerbaijan : 12 )**

Kharyaga (Russia)  
Shaz-Deniz (Caspian sea)  
Kashagan (Caspian sea)  
Absheron (Caspian sea)