

## Chapter AR

### ANALYSIS OF ASSESSMENT RESULTS

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# GLOBAL REVIEW

## Overview

This chapter (AR) summarizes the results of a five-year study by the U.S. Geological Survey (USGS) to assess conventional oil, gas, and natural gas liquids (NGL) resources of the world outside the United States (U.S.) that have the potential to be added to reserves within a 30-year time frame (1995-2025). This chapter also documents the quantity, quality, and location of petroleum energy resources. The USGS undertook this world petroleum assessment in order to provide impartial, scientifically based, societally relevant petroleum-resource information essential to the economic and strategic security of the United States. This chapter also describes the distribution of estimated undiscovered resources, geologic analyses, allocations of estimated undiscovered resources to countries and onshore and offshore areas, and input data.

Two major components of petroleum resources were assessed; undiscovered conventional resources and reserve (field) growth. Undiscovered, conventional petroleum resources were assessed on the basis of the geology. Potential additions to reserves from reserve growth were estimated *only at the world level*. Reserve growth estimates for the world have not previously been made by the USGS. The World Petroleum Assessment 2000 has a 30-year forecast span, in contrast to previous USGS world and domestic assessments that presented estimates of *ultimate* petroleum resources. The latter portion of even a 30-year time frame is

difficult to predict because of continuous technological progress and a rapidly evolving world economy.

This assessment, the USGS World Petroleum Assessment 2000, is the fifth in a series of USGS quantitative world petroleum assessments that began in 1981 (RV). The effective date of this assessment is January 1, 1996. The essence of petroleum assessment is the bounding of uncertainties concerning future additions to petroleum reserves. Petroleum resource assessments are therefore never “correct” in an absolute sense, but evolve through time as knowledge, technology, and economics change. Each successive assessment is a refinement of previous work. However, the current assessment was very different from the previous four world assessments in terms of methodology, personnel, and documentation.

The critical geologic controls on petroleum distribution are encompassed by the total petroleum systems (TPS) and were studied using this approach. Assessment units (AU), within the TPS, were the basic units for assessment. Overall, 159 TPS and 270 AU were identified in 96 countries and 2 jointly held areas. Of these, 149 TPS and 246 AU in 128 geologic provinces were quantitatively assessed. Note that a province was not necessarily assessed in entirety unless assessment units covered the whole area.

The assessed areas were those judged to be significant on a world scale in terms of known petroleum volumes, geologic potential for new petroleum discoveries, and political or societal importance. In the course of our geologic analyses, 24 AU were identified as containing continuous (nonconventional) resources, but these were not quantitatively assessed.

Estimates (mean, median, and range of uncertainty) of world undiscovered conventional resources for this assessment are presented in [table AR-1](#); cumulative production, volumes of remaining reserves, and estimates of reserve growth are also shown. A series of summary tables is shown providing estimates of undiscovered resources for each AU. The estimates of undiscovered resources of AU are aggregated into TPS estimates (see each TPS page) which are then aggregated to Province (see province pages), Region (see region pages), and World estimates ([World Summary](#)).

## **Terminology**

Selected terms used in this chapter are defined here. The definitions are intended to be generally explanatory rather than strictly technical. Additional definitions are given in the Glossary ([GL](#)).

**Conventional Petroleum Endowment:** The sum of the known petroleum volume (cumulative production plus remaining reserves) and the mean of the

undiscovered volume. Oil endowment and gas endowment are sometimes used as abbreviated forms of this term.

**Cumulative Petroleum Production:** Reported cumulative volume of petroleum that has been produced. Cumulative oil, cumulative gas, and cumulative production are sometimes used as abbreviated forms of this term.

**Discovery Maturity:** Percentage of the known (discovered) volumes with respect to conventional endowment.

**Future Grown Petroleum Volume:** The sum of the remaining reserves, the mean of the undiscovered volume, and additions to reserves by reserve growth. Cumulative production does not contribute to the future grown petroleum volume.

**Future Petroleum Volume:** The sum of the remaining reserves and the mean of the undiscovered volume. Cumulative production does not contribute to the future petroleum volume. Future oil volume and future gas volume are sometimes used as variations of this term.

**Grown Conventional Petroleum Endowment:** The sum of the known petroleum volume (cumulative production plus remaining reserves), the

mean of the undiscovered volume, and additions to reserves by reserve growth.

**Grown Petroleum Volume:** Known petroleum volume adjusted upward to account for future reserve growth. For this assessment, 30 years of reserve growth is considered.

**Known Petroleum Volume:** The sum of cumulative production and remaining reserves as reported in the databases used in this assessment. Also called estimated total recoverable volume (sometimes called ultimate recoverable reserves or estimated ultimate recovery).

**Remaining Petroleum Reserves:** Volume of petroleum in discovered fields that has not yet been produced. For this assessment, remaining reserves were calculated by subtracting cumulative production from known volumes. Remaining reserves is sometimes used as an abbreviated form of this term.

In this chapter, and throughout this set of CD-ROM's, reference to world resources or world endowment are understood to refer to those portions of the world assessed in the World Petroleum Assessment 2000.

## **Scope**

For the current assessment, the world was divided into eight regions approximating the U.S. State Department regions, and each region was subdivided into geologic provinces. Ninety-five percent of the world's known petroleum was found to exist in 76 of these provinces exclusive of the U.S. (Petroconsultants, 1996), that were originally designated as priority provinces for assessment of undiscovered resources. Fifty-two other provinces designated as boutique also were examined (RH).

The assessed areas were those judged to be significant on a world scale in terms of known petroleum volumes, geologic potential for new petroleum discoveries, and political or societal importance. Province offshore areas originally were delineated to water depths of 2,000 m, but several were extended to water depths of 4,000 m in recognition of rapidly developing deep-water drilling and production technology.

## **Commodities Assessed**

Commodities considered in this study are crude oil, natural gas, and NGL that can be produced from the subsurface through a well and that are trapped as discrete (conventional) deposits. In this study, because of reporting uncertainties, forecasts of undiscovered NGL volumes include all liquids present in gas fields.

The USGS definition of a conventional deposit is geologically based (GL). A conventional deposit is a discrete accumulation, commonly bounded by a downdip water contact that is significantly controlled by the buoyancy of petroleum in water. This definition does not incorporate economic or political factors such as deep water, remoteness, harsh climate, regulatory status, or engineering techniques.

Heavy oil (API gravity <15°), tar deposits, oil shales, gas hydrates, gas dissolved in geopressured brines, coalbed methane, and low-permeability, fractured-shale or basin-center continuous accumulations (GL) were excluded from this assessment. An effort was made to note some of the continuous-type resources encountered. Twenty-four AU that were not quantitatively assessed contain continuous-type resources, of which, seventeen were characterized (Continuous Resources Map). Antarctica, as well as some individual, remote geologic provinces, were excluded from this assessment, based on the judgment that these areas were unlikely to contribute significant proved petroleum reserves in the 30-year time frame.

USGS assessment procedures focused on oil in oil fields and gas in gas fields. However, petroleum coproducts, such as gas or NGL in oil fields and liquids in gas fields, also contribute significantly to the world's total petroleum resources. Such components were included in this assessment by specifying coproduct ratios at



minimum, median, and maximum values as part of the input data for each AU. These ratios were then used to estimate undiscovered coproduct volumes.

Natural gas, as considered in this assessment, is a mixture of hydrocarbon gases (mainly methane) and nonhydrocarbon gases (such as, carbon dioxide, hydrogen sulfide, and nitrogen). Estimated undiscovered gas volumes presented here are for natural gas rather than for only hydrocarbon gases. Ancillary input data associated with each AU provide guidelines for the percentages of nonhydrocarbon gases believed to be present. Ancillary data of environmental and economic interest include contents of nonhydrocarbon components in gas (H<sub>2</sub>S, N<sub>2</sub>, and CO<sub>2</sub>), API gravity and H<sub>2</sub>S content of oil, and drilling and water depths; these data are documented in archive files in this set of CD-ROMs.

## **RESULTS—UNDISCOVERED CONVENTIONAL PETROLEUM**

### **World-Level Results, Excluding U.S.**

Fractiles (F<sub>95</sub>, F<sub>50</sub> (median), and F<sub>5</sub>) and mean volume estimates are shown graphically for undiscovered oil (fig. AR-1), natural gas (fig. AR-2) and NGL (fig. AR-3) and are summarized in table AR-1. Fractiles (F<sub>95</sub>, F<sub>50</sub>, F<sub>5</sub>) are determined with the assumption of perfect positive dependency among estimates at the AU, TPS, province and country levels. In aggregating the eight region-level sets of estimates to the world level (figs. AR-1, AR-2, AR-3), a positive correlation of 0.5

was assumed. Dependencies assumed for aggregations are described in Chapter [AA](#).

Estimates of potential undiscovered conventional petroleum in the principal petroleum provinces of the world (excluding the U.S.) demonstrate that a significant volume of petroleum is yet to be found. Mean estimates for conventional undiscovered oil, natural gas and NGL (exclusive of the U.S.) are as follows:

- 649 billion barrels of oil (BBO) ([fig. AR-1](#))
- 4,669 trillion cubic feet of gas (TCFG) (778 BBO equivalent, BBOE) ([fig. AR-2](#))
- 207 billion barrels of NGL (BBNGL) ([fig. AR-3](#)).

These mean estimates for undiscovered oil, natural gas, and NGL each exceed the world cumulative production (excluding the U.S.) of these commodities.

However, remaining reserves plus estimated reserve growth exceed the undiscovered volumes for oil and gas, but not for NGL ([table AR-1](#), [fig. AR-4](#)).

Gas in undiscovered conventional accumulations can be subdivided into gas in undiscovered gas fields and gas in undiscovered oil fields. The USGS mean estimate for total undiscovered gas in conventional accumulations (excluding the

U.S.) is 4,669 TCFG. Of this volume, 1,122 TCFG (24 percent) resides in undiscovered oil fields. Thus, about one-fourth of the world's undiscovered gas foreseen in this assessment is predicted to be a secondary product of the search for oil. Such gas has economics of exploration, development, and production that are much different from those of gas in gas fields.

### **Comparison to Previous USGS World Assessment**

The previous USGS world assessment was conducted by Masters and others (1994) and also reported in Masters and others (1997). Masters and others (1994, 1997) utilized production data to January 1, 1993 and did not formally assess coproducts or reserve growth. The current assessment uses production data to January 1, 1996 and incorporates a different methodology and assessment process. The two assessments addressed sets of geologic provinces that were not exactly the same. However, it is important to note that both assessments were geologically based.

The comparison with Masters and others (1994, 1997) is made here (excluding the U.S.) of estimates of undiscovered resources ([table AR-1](#), [fig. AR-5](#)). Overall, the total petroleum resource of the World Petroleum Assessment 2000 is about 5 percent greater than that of the 1994 assessment; that is, 1,634 billion barrels of oil equivalent (BBOE) versus 1,544 BBOE. However, if individual commodities are compared, differences between the two assessments become apparent. The results

of this assessment are 20 percent greater for oil (649 BBO estimated in this assessment versus 539 BBO in the 1994 assessment), 14 percent smaller for gas (778 BBOE versus 915 BBOE or 4,669 TCFG versus 5,488 TCFG), and 130 percent greater for NGL (207 BBNGL versus 90 BBNGL). The difference in estimates for undiscovered gas is made more pronounced by the fact that Masters and others (1994, 1997) did not formally consider undiscovered gas in oil fields as was done in the present study. Reserve growth estimates were not made for any previous USGS world assessment.

The small 5 percent overall disparity, exclusive of the U.S., between the 1994 and 2000 assessments suggests that a reasonable geologic understanding of the undiscovered conventional petroleum potential of the world exists. Even though there are variations in forecasts among commodities in the two assessments, new frontier areas with vast conventional petroleum resources are not foreseen.

### **World-Level Results, Including U.S.**

The United States was not reassessed in this study. However, estimates previously made by the Gautier and others (1996) and the Minerals Management Service (1996) are included here for comparative purposes. The mean undiscovered conventional petroleum volume estimated in this assessment, for oil, gas, and NGL taken together, is 9.5 percent higher than the previous assessment (Masters and others, 1994, 1997) (1,650 BBOE versus 1,805 BBOE). With respect to the three

commodities assessed, undiscovered oil is 24 percent higher than the previous assessment, undiscovered gas is 10 percent lower, and NGL is 104 percent higher (fig. AR-6, table AR-1).

## Region-Level Results

Figures AR-7, AR-8, and AR-9 summarize the estimated mean undiscovered conventional volumes of oil, gas, and NGL for the eight USGS regions of the world (excluding the U.S. from Region 5).

For these regional comparisons (figs. AR-7, AR-8, and AR-9), *it must be noted that not every geologic province in the world was assessed.* Thus, relative proportions of undiscovered petroleum resources among regions could differ somewhat from those shown if additional geographic areas had been assessed.

The greatest volumes of estimated undiscovered oil are in Region 2 (Middle East and North Africa), 230 BBO. Following in decreasing volumes are Region 1 (Former Soviet Union, 116 BBO); Region 6 (Central and South America; 105 BBO), Region 7 (Sub-Saharan Africa and Antarctica, 72 BBO), Region 5 (North America excluding the U.S., 70 BBO); Region 3 (Asia-Pacific, 30 BBO), Region 4 (Europe, 22 BBO), and Region 8 (South Asia, 4 BBO) (fig. AR-7).

The greatest volumes of estimated undiscovered gas are in Region 1 (Former Soviet Union, 1,611 TCFG). Following in decreasing volumes are Region 2 (Middle East and North Africa, 1,370 TCFG), Region 6 (Central and South America, 487 TCFG), Region 3 (Asia Pacific, 379 TCFG), Region 7 (Sub-Saharan Africa and Antarctica, 235 TCFG), Region 5 (North America excluding the U.S., 154 TCFG), and Region 8 (South Asia, 120 TCFG) (fig. AR-8).

The overall dominance of Region 1 (Former Soviet Union) and Region 2 (Middle East and North Africa) for undiscovered conventional resources is apparent. However, 47 percent of the undiscovered oil is in the other six regions of the world (fig. AR-7), reflecting particularly the deep-water oil exploration potential in Region 6 (offshore eastern South America) and Region 7 (offshore western Africa). Thirty-six percent of the undiscovered, conventional gas is in regions other than Region 1 and Region 2 (fig. AR-8).

Adding the U.S. undiscovered conventional resources (Gautier and others, 1996; Minerals Management Service, 1996) to Region 5 increases its mean undiscovered liquids (oil and NGL) by 83 BBO and its mean undiscovered gas by 528 TCFG. Inclusion of the U.S. estimates of undiscovered resources in Region 5 causes its regional ranking to move from 5<sup>th</sup> to 2<sup>nd</sup> in the world in terms of undiscovered conventional oil and NGL, and from 7<sup>th</sup> to 3<sup>rd</sup> in the world in terms of undiscovered conventional gas.

## **Regional Comparison to Previous USGS World Assessment**

A comparison of the eight regions of the world (exclusive of the U.S.) between the USGS 1994 world assessment (Masters and others, 1994, 1997) and this assessment is shown for oil (fig. AR-10) and for gas (fig. AR-11). The sets of geologic provinces assessed in the 1994 and 2000 assessments differ somewhat as do definitions of the regions themselves. The comparisons shown in figures AR-10 and AR-11 have been adjusted as much as possible for differing region boundaries.

Whereas current oil estimates (relative to 1994) are smaller in Regions 1 and 3 and slightly smaller in Region 4, they are considerably larger in Regions 2, 6, and 7 and slightly larger in Region 5 (fig. AR-10). The volume of undiscovered oil estimated in this assessment is larger than the previous assessment, due in part to larger estimates for Region 2 and Atlantic offshore portions of South America and Africa (Region 6 and 7).

Current gas estimates are less in Regions 1, 3, 5, and 7, but more in Regions 2, 6, and 8 compared to the 1994 assessment (fig. AR-11). Region 1 gas estimates are less by 766 TCFG compared to those of 1994. Lower gas estimates for Region 1 in part reflect lower size estimates of offshore gas discoveries and drilling results and new information in the arctic areas of the Former Soviet Union (West Siberian

Basin, Kara Sea, Barents Sea, and Ludlov Saddle). Lower estimates in Region 5 in part reflect the small size of fields and pools found since the 1994 world assessment. Region 3 reductions, largely in China, are based on analyses of the geology and recent discovery history. However, large unconventional gas resources (basin-center deposits and coalbed methane) were identified but not assessed in Region 3 ([Continuous Resources Map](#)).

An upward revision for gas resources in Region 6 relates to deeper exploration and resulting discoveries of gas in the offshore areas of eastern South America. The upward revisions in Region 8 in South Asia are important because of the large populations that live near these gas resources. Current gas estimates are higher in Region 2 (the Middle East and North Africa)—because of this project’s analyses of the potential contributions from Silurian-sourced gas in the Rub Al Khali (Empty Quarter) of Saudi Arabia and because of substantial additional gas potential recognized in some provinces of North Africa.

### **Sub-regional Distribution of Undiscovered Resources**

The AU, TPS, and provinces were ranked with respect to mean undiscovered oil and gas volumes to aid in the analysis of the distribution of undiscovered conventional petroleum resources. Province-level results are not necessarily for the entire area of the province, but for those areas assessed within AU and TPS. Additional rankings were made with respect to conventional petroleum endowment



and future petroleum volumes. Reserve growth was not estimated for subdivisions below the world level. All rankings exclude U.S. petroleum volumes. Rankings for AU are shown in [table AR-2](#), for TPS in [table AR-3](#), and for provinces in [table AR-4](#).

Data for known volumes used in this study are from Petroconsultants (1996) and NRG Associates (1995) and are used with the permission of these companies. Reported volumes of individual fields were summed to provide the cumulative production and known volumes for each AU, TPS, province, and region. Only fields assigned to an AU were used in this study.

Conventional petroleum endowment and future petroleum volumes for TPS, provinces, and regions are necessarily approximate. The mean undiscovered volumes were estimated for each AU that was assessed, whereas known volumes were reported for all AU. Therefore, the endowment or future volume of a TPS, province, or region will contain the known volume, but not the undiscovered volume, of an unassessed AU. Twenty-four of the 270 AU were not quantitatively assessed, but the absence of these undiscovered volumes probably does not significantly affect this study.

Discovery maturity is the ratio of the known (discovered) volumes to endowment (expressed as a percentage). Determination of the major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil

(CFG/BO). The major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO.

The volumes of undiscovered oil and gas tend to be positively correlated with discovered volumes (figs. AR-12, AR-13). The bulk of the undiscovered petroleum resources generally occurs in those AU that contain the greatest known (discovered) volumes. Discovery maturities reflect this relationship. Assessment units that deviate from the plot trends typically do so in the direction of greater undiscovered volumes relative to discovered volumes. This trend is due in part to the fact that some AU have a limited development history for reasons such as remoteness from markets, lack of transportation systems, or difficulty of access.

The distribution of undiscovered petroleum resources in the 246 assessed AU follows the so called “80-20 rule of thumb,” in which 80 percent of a quantity is accounted for by 20 percent of the sample population. Likewise, the distributions for TPS and provinces also follow this 80-20 rule. Eighty percent of the undiscovered oil (approximately 500 BBO) occurs in approximately 16 percent of the AU, TPS, and provinces; and 80 percent of the undiscovered gas (approximately 3,700 TCFG) is in about 22 percent of the AU, TPS, and provinces (figs. AR-14 through AR-19). Eighty percent of the total undiscovered petroleum (approximately 1,300 BBOE) is present in approximately 21 percent of the

provinces that contain assessed AU (fig. AR-20). This distribution is similar to that for discovered petroleum volumes (see chapter RH).

The rankings show that the greatest estimated volumes of undiscovered conventional oil are in the Middle East, northeast Greenland Shelf, the West Siberian, and Caspian areas of the Former Soviet Union and the Niger and Congo delta areas of Africa. Significant new undiscovered oil resource potential was identified in a number of areas with no significant production history, such as northeast Greenland and offshore Suriname (figs. AR-21, AR-22, AR-23).

Areas that contain the greatest estimated volumes of undiscovered conventional gas are in the West Siberia Basin, Barents and Kara Seas shelves of the Former Soviet Union, the Middle East, and offshore Norwegian Sea. A number of areas were identified that may contain significant additional undiscovered gas resources where large discoveries have been made but remain undeveloped. Examples include East Siberia and the Northwest Shelf of Australia (figs. AR-24, AR-25, AR-26).

## **RESERVE GROWTH**

Reserve growth refers to the increases in estimated sizes of fields that can occur through time as oil and gas fields are developed and produced.

In the U.S., which is one of the most intensely explored countries in the world, reserve growth is widely considered to be a major component of remaining oil and gas resources. It is hypothesized that reserve growth of similar proportions also could occur worldwide as exploration for new fields matures and the intense exploitation of existing fields becomes an increasingly viable approach to developing new reserves. A forecast of world potential reserve growth is therefore a necessary element of the World Petroleum Assessment 2000. The forecast in this study is shown in [table AR-1](#). The potential additions to reserves from reserve growth are nearly as large as the estimated undiscovered resource volumes.

The technical approach to this forecast and detailed results are documented in [chapter RG](#). The world potential reserve growth (excluding the U.S.) for oil is estimated to range from 192 BBO at a 95 percent probability to as much as 1,031 BBO at a 5 percent probability, with a mean of 612 BBO ([fig. AR-27](#)). These estimates, as well as those for gas and NGL, reflect a 30-year forecast span (1995 to 2025).

The world potential reserve growth (excluding the U.S.) for gas is estimated to range from 1,049 TCFG (95 percent probability) to 5,543 TCFG (5 percent probability), with a mean of 3,305 TCFG ([fig. AR-28](#)). World potential reserve growth (excluding the U.S.) for NGL is estimated to range from 13 BBNGL (95

percent probability) to 71 BBNGL (5 percent probability), with a mean of 42 BBNGL (fig. AR-29).

These forecasts indicate that reserve growth could prove to be a major component of the world's future petroleum resources. As illustrated by figure AR-30, the forecasts made in the World Petroleum Assessment 2000 for the reserve growth of oil and for undiscovered conventional oil resources (excluding the U.S.) are about equal. That is to say, the world has been explored for oil to the point that the reserve growth of fields already discovered may provide nearly as much "new" oil in the next 30 years as will come from discoveries of conventional fields.

Worldwide, gas is a commodity that is less mature in an exploration sense than oil. Reserve growth is predicted to provide somewhat less additional gas in the next 30 years than will come from conventional new-field discoveries (26 percent versus 37 percent of future resources, respectively; fig. AR-30). Nevertheless, the current assessment indicates that slightly more than one-fourth of the future gas resources of the world (excluding the U.S.) resides in the reserve-growth category.

Because of reserve growth, announced sizes of newly discovered fields do not equate to ultimate sizes. A newly discovered field is statistically likely to increase in size during its productive life. It follows that size estimates of recent new-field discoveries are probably conservative. New-field discoveries are actually

replacing more of the world's reserves lost to annual production than is generally appreciated.

The ranges of the forecasts for world potential reserve growth are large, even by the norms of petroleum resource assessments. These large ranges are commensurate with the fact that worldwide patterns of reserve growth are poorly understood and difficult to establish. For the world as a whole, a set of uniform reporting requirements does not exist; criteria for the estimation of remaining reserves differ widely; and the technical, economic, and political conditions that drive the reserve-growth process vary from country to country. For these reasons, forecasts of potential reserve growth for entities smaller than the world, such as regions, countries, or geologic provinces, were not developed as part of this assessment.

In the future, analyses of reserve-growth patterns at regional and local levels offer a way to improve assessments of world potential reserve growth. The initial assessment effort presented here hopefully will stimulate discussion, research, and the collection of data aimed at developing a better understanding of world reserve growth.

## **WORLD-LEVEL TOTAL ENDOWMENT BY RESOURCE CATEGORY**

In developing the World Petroleum Assessment 2000, the potential for conventional discoveries in hypothetical and frontier assessment units, as well as in established areas already known to be rich in petroleum, was examined. In this context of a broad assessment of the world's potential for future discoveries, it is important to note that estimated undiscovered conventional oil represents only 25 percent of the world grown conventional oil endowment (excluding the U.S.) (fig. AR-31). The three other components of world grown conventional oil (cumulative production, remaining reserves, and reserve growth) contribute 20 percent, 32 percent, and 23 percent, respectively (fig. AR-31). In other words, 75 percent of the world's oil identified in this assessment (of the areas assessed and excluding the U.S.) has already been discovered.

Figure AR-31 shows that gas is a less exploited commodity, on a world scale, than oil. Only 7 percent of the world grown conventional gas endowment, excluding the U.S., has been produced. Undiscovered conventional gas represents 34 percent of the world (excluding the U.S.) grown gas endowment (fig. AR-31). Even for gas, 66 percent of the world's total grown conventional gas endowment (excluding the U.S.) identified in the World Petroleum Assessment 2000 has been discovered.

The U.S. accounts for about 12 percent of the grown conventional endowments of both oil and gas for the entire world (including the U.S., [table AR-1](#)). The United States has produced about 45 percent of its oil and gas endowments and carries only 9 percent as remaining reserves ([fig. AR-32](#)).

## **PRELIMINARY EXAMINATION OF GEOLOGIC RELATIONSHIPS**

In the course of developing the World Petroleum Assessment 2000, a large body of geologic information was assembled and synthesized. Data for the eight key petroleum-geology parameters at the AU level discussed in this section can be found on Disc 4. The figures included in this section show the numerical (charts) and spatial (maps) distributions, also at the AU level, of these parameters.

Assessors provided a geologic summary for each of the 246 AU that was quantitatively assessed. Eight geologic parameters from each of the 246 AU geologic summaries were recorded in a spreadsheet. The geologic parameters are (1) source rock age, (2) source rock character, (3) peak maturation age (4) reservoir rock age, (5) reservoir rock depositional environment, (6) reservoir rock lithology, (7) seal lithology, and (8) trap type.

The eight geologic parameters were examined in terms of frequency of occurrence and resource volumes. Total petroleum resource volumes (presented here as



billion barrels of oil equivalent, BBOE) are further distinguished as (1) known (cumulative production plus remaining reserves; Petroconsultants, 1996), (2) undiscovered (this study), and (3) conventional endowment (sum of known and undiscovered).

## **Geologic Characterization of Assessment Units**

### Source Rock Age

The number of AU grouped by age of source rock is shown in [figure AR-33](#), and the mean petroleum volumes of AU grouped by age of source rock are shown in [figure AR-34](#). Four maps ([figs. AR-35, AR-36, AR-37, AR-38](#)) illustrate the distribution of AU having source rock ages of PreCambrian, Paleozoic, Mesozoic, and Tertiary. A detailed breakdown of the number of AU by source rock age is shown in [figure AR-39](#), and a detailed breakdown of petroleum volumes by source rock age is shown in [figure AR-40](#).

### Source Rock Character

The number of AU grouped by character of source rock, defined as coaly, lacustrine, shallow marine, and deep marine, is shown in [figure AR-41](#), and the mean petroleum volumes of AU grouped by character of source rock are shown in [figure AR-42](#). Four maps ([figs. AR-43, AR-44, AR-45, AR-46](#)) show the distribution of AU having coaly, lacustrine, shallow marine, and deep marine source rocks.

## Peak Maturation Age

The number of AU grouped by age at which peak maturation of source rocks occurred is shown in [figure AR-47](#), and the mean petroleum volumes of AU grouped by age at which peak maturation of source rocks occurred are shown in [figure AR-48](#). Three maps ([figs. AR-49, AR-50, AR-51](#)) illustrate the distribution of AU having peak maturation coinciding with Paleozoic, Mesozoic, and Tertiary ages.

## Reservoir Rock Age

The number of AU grouped by age of reservoir rock is shown in [figure AR-52](#), and the mean petroleum volumes of AU grouped by age of reservoir rock are shown in [figure AR-53](#). Four maps ([figs. AR-54, AR-55, AR-56, AR-57](#)) show the distribution of AU having reservoir rock ages of PreCambrian, Paleozoic, Mesozoic, and Tertiary. A detailed breakdown of the number of AU by reservoir rock age is shown in [figure AR-58](#), and a detailed breakdown of petroleum volumes by reservoir rock age is shown in [figure AR-59](#).

## Reservoir Rock Depositional Environment

The number of AU grouped by depositional environment of reservoir rock is shown in [figure AR-60](#), and the mean petroleum volumes of AU grouped by depositional environment of reservoir rock are shown in [figure AR-61](#). Four maps

(figs. AR-62, AR-63, AR-64, AR-65) illustrate the distribution of AU having reservoir rock depositional environment characterized as continental, paralic, shallow marine, and deep marine.

### Reservoir Rock Lithology

The number of AU grouped by lithology of reservoir rock is shown in figure AR-66, and the mean petroleum volumes of AU grouped by lithology of reservoir rock are shown in figure AR-67. Four maps (figs. AR-68, AR-69, AR-70) show the distribution of AU having primary reservoir lithology of siliciclastic, carbonate, and mixed siliciclastic and carbonate.

### Seal Lithology

The number of AU grouped by lithology of seal is shown in figure AR-71, and the mean petroleum volumes of AU grouped by lithology of seal are shown in figure AR-72. Three maps (figs. AR-73, AR-74, AR-75) illustrate the distribution of AU having seal lithologies of primarily shale, primarily salt, and seals composed both of shale and of salt.

### Trap Type

The number of AU grouped by type of trap is shown in figure AR-76, and the mean petroleum volumes of AU grouped by type of trap are shown in figure AR-77. Six maps (figs. AR-78, AR-79, AR-80, AR-81, AR-82, AR-83) show the

distribution of AU having a primary trap type characterized as stratigraphic, paleogeomorphic, compressional structures, extensional structures, non-tectonic structures, and structural-stratigraphic.

## **Concluding Remarks**

Data are presented in this section with little discussion or interpretation. Perusal of the table and figures, however, reveals interesting patterns and trends in and between the factors that exert basic geologic controls on world petroleum resources. Such data might serve to revise or confirm some long-held qualitative assumptions, and almost certainly offer insights into paths for future research.

As a follow-up to the World Petroleum Assessment 2000, the opportunity exists to study geologic controls upon petroleum resources in the context of a world-level synthesis. Perhaps the TPS of this study could be regarded as subsets of a mega-petroleum system, one with world-wide cyclic and correlative characteristics of source-rock deposition, and petroleum generation, migration, trapping, and preservation. The data gathered in this assessment offer a starting point for such ambitious research.

# REMAINING LARGE FIELDS AND ANALYSIS OF PETROLEUM DISTRIBUTION BY ONSHORE AND OFFSHORE AREAS AND BY COUNTRIES

## Remaining Large Fields

Tables AR-6 through AR-9 present information about the possible locations of large, undiscovered fields in the world by AU. Because of the extreme skewness of field-size distributions, much uncertainty exists as to the size of the largest undiscovered fields. The calculational procedure used in this assessment (MC) provides a distribution that shows the uncertainty for size of the largest undiscovered field for each AU. (For an example, see AU 20300101). Because of high uncertainty, the statistics in tables AR-6 through AR-9 should be viewed for their relative, rather than absolute value.

Table AR-5 presents a ranked list of AU by the expected size of the largest undiscovered oil field. Table AR-6 shows a similar list for the largest undiscovered gas field. Table AR-7 shows the ranking of AU by number of expected oil fields with at least 1,024 MMBO. Table AR-8 illustrates AU ranking by number of expected gas fields with at least 6,144 BCFG (1,024 MMBOE).

All four tables show that many of the largest fields remaining to be discovered are expected in Region 2. East Greenland is also prominent on the lists.

## **Onshore versus Offshore Resources**

Economics of petroleum exploration and production are very different for onshore and offshore environments. In the assessment process, allocations of estimated undiscovered volumes were made to onshore and offshore locations (where applicable) in order to enhance the utility of the results for further economic analysis. Offshore areas were deemed those that required offshore infrastructure, either in fresh or salt water. Figures AR-84 through AR-88 summarize these results.

Onshore and offshore estimated volumes by region of undiscovered oil is shown in [figure AR-84](#); for undiscovered gas, in [figure AR-85](#); and for NGL, in [figure AR-86](#). Most of the onshore undiscovered resources are expected to be in Regions 1 and 2, whereas much of the offshore undiscovered resources are expected to be in Regions 3 through 8. [Figure AR-87](#) shows that, at the world level, approximately equal amounts of each of the three undiscovered commodities are expected to be onshore and offshore. [Figure AR-88](#) shows that for Regions 3 through 8, about one-fourth of the undiscovered volume of each commodity is expected to be onshore.

## **Petroleum Volumes by Country**

Petroleum volumes allocated to countries are shown in [table AR-9](#). The table also shows countries belonging to the Organization of Petroleum Exporting Countries

(OPEC) and in the Organisation for Economic Co-operation and Development (OECD). Volumes cited in this table and used for the figures in this section do not necessarily represent the entire country. Rather, these volumes represent AU in the country. (Volumes for the entire U. S. (Gautier and others, 1996; Minerals Management Service, 1996), however, have been added to OECD volumes.)

Known (discovered) and estimated undiscovered oil, gas, and NGL volumes are presented for OPEC, OECD and remaining countries of the world in [figures AR-89, AR-90 and AR-91](#). Note that these figures do not include estimates for reserve growth. Reserve growth was assessed at the world level only.

The undiscovered resources in OPEC are primarily onshore, whereas the undiscovered resources for OECD and other countries are primarily offshore ([figs. AR-92, AR-93, AR-94](#)). Estimates of economically recoverable, conventional petroleum resources for these organizations were made in this study.

## **SELECTED INPUT DATA**

Data for each AU were developed, one AU at a time, during the course of the assessment. Continuity of methodology was maintained by the Assessment Meeting Team, which was present at every assessment session. No running totals of results were compiled, and no intermediate reviews of data trends were

conducted. Patterns and distributions of key input-data variables were examined only after the last assessment session was completed in January of 2000.

Brief analyses of selected AU input data are presented here to help depict the general nature of the World Petroleum Assessment 2000 forecast of undiscovered conventional petroleum resources. All data forms are recorded in this CD-ROM set.

### **Scale of Assessment Areas**

In defining and mapping TPS and AU, it was necessary to strike a balance between lumping and splitting of the number of AU in each TPS. This sense of scale is provided by [figure AR-95](#), which shows that 159 TPS (excluding the U.S.) containing 270 AU were defined. Ninety TPS contained one AU, 41 contained two AU, 20 contained three AU, and only eight contained more than three AU ([fig. AR-95](#)).

The distribution of total known petroleum volumes among the AU is uneven, with relatively few AU containing most of the known petroleum. Sixty percent of the known petroleum is contained in just 13 AU, 80 percent is contained in 39 AU, and 95 percent is contained in 95 AU ([fig. AR-96](#)). The remaining 5 percent of the known petroleum volume is distributed among 122 AU. An additional 53 AU contained no known petroleum at the end of 1995.



## Major Commodity

Of the 246 AU that were quantitatively assessed for undiscovered conventional petroleum resources, the primary commodity was judged to be gas for 73 AU and oil for 173 AU (fig. AR-97). These commodity assignments are based upon the sum of known and estimated undiscovered petroleum. The division between oil-prone and gas-prone AU was an overall GOR for the assessment unit of 20,000 CFG/BO, which is primarily an economic criterion. If a GOR of 6,000 CFG/BO had been chosen, to reflect energy equivalency between oil and gas, a larger percentage of AU would have been placed in the gas-prone category.

## Minimum Field Size

A minimum field size for assessment was selected for each AU. Undiscovered fields smaller than the minimum size were not included in the assessment process. The minimum field size was selected, in part, according to the exploration maturity of an AU, and, in part, according to the Assessment Meeting Team's judgment as to the potential for undiscovered fields below a particular size to contribute to reserves within the 30-year time frame. Figure AR-98 reveals a preference for choosing minimum field sizes that are multiples of five. No minimum field size exceeded 20 MMBOE. Seventy percent of minimum field sizes were in the range of 1 through 5 MMBOE (fig. AR-98).

## **Number of Undiscovered Fields**

Estimates of the median number of undiscovered conventional fields in an AU provide another sense of scale for the World Petroleum Assessment 2000. The distributions of number of undiscovered oil fields and number of undiscovered gas fields in an AU are not materially different (fig. AR-99) (OP). Roughly half of the AU were judged to contain between 1 and 25 undiscovered oil fields exceeding the minimum field size. At the high end of the distribution, approximately one-fourth of the AU were judged to contain more than 50 undiscovered oil fields. Similar proportions hold for undiscovered gas fields (fig. AR-99).

## **Size of Undiscovered Fields**

As is the case for estimated number of undiscovered fields (fig. AR-99), distributions of the estimated median size of undiscovered oil fields and of undiscovered gas fields in an AU are similar (fig. AR-100) (OP). Approximately 45 percent of the AU was judged to contain a population of undiscovered oil fields having a median size of 1-10 MMBO. At the high end of the distribution, just under 20 percent of the AU were judged to contain a population of undiscovered oil fields having a median size exceeding 30 MMBO. Similar percentages hold for undiscovered gas fields (fig. AR-100).

## Coproduct Ratios

The ratios of gas to oil (GOR) and liquids to gas (LGR) expected for the undiscovered oil and gas fields of an AU are used to assess the primary coproducts of (1) gas occurring in oil fields, and (2) liquids (oil and NGL) occurring in gas fields. Median estimates of the average GOR of undiscovered oil fields in an AU, although somewhat uniformly distributed over a considerable GOR range, form a bimodal distribution (fig. AR-101). The first maximum of the bimodal distribution occurs for the bin of 501-1,000 CFG/BO and reflects AU in which the gas coproduct primarily occurs as dissolved gas. The second maximum occurs for the bin of 2,001-2,500 CFG/BO and reflects AU in which a component of the gas coproduct occurs as free gas, such as in a gas cap.

Median estimates of the average LGR of undiscovered gas fields in an AU form a distribution that has a pronounced peak for the bin of 41-50 BL/MMCFG (fig. AR-102). The average LGR for all discovered gas fields in the Petroconsultants (1996) database is 44 BL/MMCFG. Figure AR-102 shows that this default value, or a value close to it, was used in 42 percent of the AU.

## Assessment Unit Probability

The AU probability represents the likelihood that at least one undiscovered field of minimum size or larger exists in the AU. Assessment unit probability is the product of the probabilities of four attributes: charge, rocks, timing, and access.

Relatively few AU had attributes that were risked; that is, relatively few had attributes assigned probabilities less than 1.0; fifteen AU were risked for charge, 17 for rocks, 6 for timing, and only 2 for access within the 30-year time frame (fig. AR-103). Attribute probabilities, if less than 1.0, ranged from 0.40 to 0.95 and had a median value of 0.80. Assessment units tended to encompass relatively large portions of petroleum provinces, so that the probability of at least one undiscovered field somewhere in the AU was commonly judged to be 1.0.

## **SUMMARY**

The USGS World Petroleum Assessment 2000 provides estimates of the quantities of conventional oil, gas, and natural gas liquids outside the United States that have the potential to be added to reserves in the next 30 years (1995 to 2025).

Excluding the U.S., the mean (expected) volumes of undiscovered resources are 649 BBO, 4,669 TCFG, and 207 BBNGL. The estimated mean additions to reserves from discovered fields (potential reserve growth) are 612 BBO, 3,305 TCFG, and 42 BBNGL.

The potential additions to reserves from reserve growth are nearly as large as the estimated undiscovered resource volumes. These estimates imply that 75 percent of the world grown conventional oil endowment and 66 percent of the world grown conventional gas endowment have already been discovered in the areas assessed (exclusive of the U.S.). Additionally, for these areas, 20 percent of the world

grown conventional oil endowment and 7 percent of the world grown conventional gas endowment had been produced as of the end of 1995 (fig. AR-4).

Results of USGS World Petroleum Assessment 2000 offer opportunities for many studies beyond the initial analyses in this report. The material generated by this effort can serve as a foundation for additional geologic, economic, geopolitical, and environmental studies.

## REFERENCES

- Gautier, D.L., Dolton, G.L., Takahashi, K.I., and Varnes, K.L., eds., 1996, 1995 National assessment of United States oil and gas resources--Results, methodology, and supporting data: U.S. Geological Survey Digital Data Series DDS-30, Release 2.
- Masters, C.D., Attanasi, E.D., and Root, D.H., 1994, World petroleum assessment and analysis; Proceedings of the 14<sup>th</sup> World Petroleum Congress: London, John Wiley and Sons, p.529-541.
- Masters, C.D., Root, D.H., and Turner, R.M., 1997, World resource statistics geared for electronic access: Oil and Gas Journal, v. 95, no. 41, p. 98-104.
- Minerals Management Service, 1996, An assessment of the undiscovered hydrocarbon potential of the nation's outer continental shelf: Minerals Management Service OCS Report MMS 96-0034, 40 p.
- NRG Associates, Inc., 1995, The significant oil and gas pools of Canada data base: Colorado Springs, Colo., NRG Associates, Inc. [Database available from NRG Associates, Inc., P.O. Box 1655, Colorado Springs, CO 80901, U.S.A.]
- Petroconsultants, 1996, Petroleum exploration and production database: Houston, Texas,
- Petroconsultants, Inc. [Database available from Petroconsultants, Inc., P.O. Box 740619 Houston, TX 77274-0619, U.S.A.]

**Table AR-1. World level summary of petroleum estimates for undiscovered conventional petroleum and reserve growth for oil, gas, and natural gas liquids (NGL).**

[BBOE, billions of barrels of oil equivalent. Six thousand cubic feet of gas equals one barrel of oil equivalent. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Production and reserves normalized to 1/1/96. Shading indicates not applicable]

Oil				Gas					NGL			
Billion Barrels				Trillion Cubic Feet				BBOE	Billion Barrels			
F95	F50	F5	Mean	F95	F50	F5	Mean	Mean	F95	F50	F5	Mean

**World (excluding United States)**

Undiscovered conventional	334	607	1,107	649	2,299	4,333	8,174	4,669	778	95	189	378	207
Reserve growth (conventional)	192	612	1,031	612	1,049	3,305	5,543	3,305	551	13	42	71	42
Remaining reserves*				859				4,621	770				68
Cumulative production*				539				898	150				7
<b>Total</b>				2,659				13,493	2,249				324

**United States**

Undiscovered conventional**	66			104	83	393			698	527	88	Combined with oil	
Reserve growth (conventional)**				76				355	59	Combined with oil			
Remaining reserves				32				172	29	Combined with oil			
Cumulative production				171				854	142	Combined with oil			
<b>Total</b>				362				1,908	318				

**World Total**  
(including United States) 3,021 15,401 2,567

\*World reserve and cumulative production data reflect only those parts of the world actually assessed and are from Petroconsultants (1996) and NRG Associates (1995).

\*\*U.S. data from Gautier and others (1996) and Minerals Management Service (1996).

**Table AR-2a. Assessment units ranked by mean (expected) undiscovered oil.**

[MMBO, million barrels of oil. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative oil is the reported volume of oil that has been produced. Remaining oil is the calculated remaining reserves; the difference between known and cumulative oil. Known oil is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered oil is the mean volume estimated in World Petroleum Assessment 2000. Future oil is the remaining oil plus estimated mean undiscovered oil. Oil endowment is the known oil plus estimated mean undiscovered oil volumes. Discovery maturity is the percentage of oil discovered (known oil) with respect to oil endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. Negative values result from inconsistent reporting of cumulative and known volumes. Values in parentheses ( ) are questionable data. NA means not applicable; it is shown for all values except mean undiscovered oil if only one field is present in the assessment unit; and for major commodity, mean undiscovered volume, future volume, endowment, and discovery maturity of assessment units not assessed.]

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
1	20300101	Cretaceous Reservoirs	Oil	53,182	209,735	262,917	74,911	284,646	337,828	78
2	52000101	Northeast Greenland Shelf Rift Systems	Oil	0	0	0	47,148	47,148	47,148	0
3	11740101	Upper Jurassic-Cretaceous Sandstones	Oil	45,819	72,153	117,972	42,947	115,100	160,919	73
4	20210201	Horst-Block Anticlinal Oil	Oil	53,906	101,239	155,145	26,715	127,954	181,860	85
5	71920101	Agbada Reservoirs	Oil	16,598	17,925	34,522	21,925	39,850	56,447	61
6	20300102	Tertiary Reservoirs	Oil	47,285	62,025	109,310	19,605	81,630	128,914	85
7	20210101	Central Arch Horst-Block Anticlinal Oil and Gas	Oil	84	6,142	6,226	19,190	25,331	25,416	24
8	71920102	Akata Reservoirs	Oil	0	0	0	18,562	18,562	18,562	0
9	72030302	Central Congo Turbidites	Oil	0	205	205	18,522	18,727	18,727	1
10	10160104	South Margin Subsalt	Oil	0	6,245	6,245	15,467	21,712	21,712	29
11	20210202	Salt-Involved Structural Oil	Oil	9,948	33,902	43,850	14,989	48,891	58,839	75
12	60360101	Santos Shelf	Oil	6	279	285	13,723	14,002	14,008	2
13	20190302	Paleozoic Reservoirs	NA	NA	NA	NA	13,235	NA	NA	NA
14	60210101	Late Cretaceous-Tertiary Turbidites	Oil	0	0	0	12,745	12,745	12,745	0
15	60350101	Late Cretaceous-Tertiary Turbidites	Oil	1,508	8,122	9,630	10,869	18,991	20,499	47
16	20190201	Jurassic Reservoirs in Northwest Desert Anticlines	Oil	0	777	777	10,633	11,410	11,410	7
17	53050102	Tamabra-Like Debris-Flow-Breccia Limestone Overlying Evaporites	Oil	14,366	18,699	33,065	9,857	28,556	42,922	77
18	60360102	Salt-Structured Deep-Water Sandstones	Oil	0	0	0	9,486	9,486	9,486	0
19	60990101	Main Maracaibo Basin	Oil	34,861	13,350	48,211	7,842	21,192	56,053	86
20	53050106	Tamaulipas-Like Basinal Limestone and Tertiary Strata Overlying Evaporites	Oil	1,929	2,339	4,268	7,823	10,163	12,092	35
21	11740201	Pre-Upper Jurassic	Oil	645	11,111	11,756	7,474	18,584	19,230	61
22	40250101	Viking Graben	Oil	13,038	13,643	26,681	7,412	21,055	34,093	78
23	11120104	Central Offshore	Oil	0	0	0	6,410	6,410	6,410	0
24	40170101	Halten Terrace-Trondelag Platform	Oil	76	2,585	2,660	6,204	8,788	8,864	30
25	31540101	Tarim Basin Excluding Marginal Foldbelts	Oil	21	634	655	5,364	5,998	6,019	11
26	72030201	Gabon Suprasalt	Oil	1,278	836	2,114	5,031	5,867	7,145	30



Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
27	10080102	Main Basin Platform	Oil	2,543	10,442	12,985	4,938	15,379	17,922	72
28	60980101	East Venezuela Fold and Thrust Belt	Oil	3,253	9,978	13,231	4,928	14,905	18,159	73
29	11120103	Gograndag-Okarem Zone and Adjacent Shelf	Oil	64	242	306	4,764	5,005	5,070	6
30	40250103	Central Graben	Oil	7,181	5,588	12,769	4,740	10,328	17,509	73
31	20190101	Cretaceous Reservoirs in Northwest Desert Anticlines	Oil	2,594	16,386	18,981	4,702	21,088	23,683	80
32	20230201	Platform Horst/Graben-Related Oil	Oil	94	379	474	4,682	5,062	5,156	9
33	72030301	Central Congo Delta and Carbonate Platform	Oil	3,693	5,847	9,540	4,677	10,523	14,216	67
34	60350103	Salt Dome Province Tertiary Sandstones	Oil	0	0	0	4,493	4,493	4,493	0
35	20540301	Tanezzuft-Ghadames Structural/Stratigraphic	Oil	1,629	2,909	4,538	4,461	7,370	8,999	50
36	60980202	Orinoco Delta and Offshore	Oil	0	0	0	4,228	4,228	4,228	0
37	20190202	Jurassic Reservoirs in South Gulf Suprasalt/Qatar Arch Structural	Oil	5,688	12,548	18,236	3,845	16,394	22,081	83
38	20430102	Central Sirte Carbonates	Oil	8,712	7,465	16,177	3,840	11,305	20,017	81
39	20190102	Cretaceous Reservoirs in South Gulf Suprasalt Structural	Oil	10,858	41,236	52,094	3,764	45,000	55,858	93
40	60600101	North Falklands Basin	Oil	0	0	0	3,603	3,603	3,603	0
41	38170102	Kutei Basin Turbidites	Oil	0	0	0	3,569	3,569	3,569	0
42	11740302	South Kara Sea Offshore	Gas	0	0	0	3,510	3,510	3,510	0
43	10160106	Suprasalt	Oil	690	1,140	1,830	3,497	4,637	5,327	34
44	11120101	Apsheron-Pribalkhan Zone	Oil	10,581	4,512	15,093	3,091	7,602	18,183	83
45	60410101	Hollin-Napo	Oil	2,889	3,712	6,601	3,023	6,735	9,625	69
46	60370101	Pelotas Platform and Basin	Oil	0	0	0	2,938	2,938	2,938	0
47	20560101	Tanezzuft-Illizi Structural/Stratigraphic	Oil	2,286	1,384	3,670	2,814	4,198	6,484	57
48	20040101	Ma'Rib-Al Jawf/Shabwah/Masila	Oil	649	1,284	1,933	2,740	4,025	4,673	41
49	20230101	Horst/Graben-Related Oil and Gas	Oil	269	944	1,213	2,632	3,577	3,845	32
50	13220101	Onshore and Offshore Northeastern Shelf	Oil	754	1,428	2,182	2,582	4,010	4,764	46
51	60340102	Late Cretaceous-Tertiary Slide Blocks and Turbidites	NA	NA	NA	NA	2,437	NA	NA	NA
52	20430101	Southeast Sirte Clastics	Oil	5,274	15,622	20,895	2,380	18,002	23,275	90
53	60960102	Peripheral	Oil	1,027	1,282	2,309	2,319	3,601	4,627	50
54	31270101	Tertiary Lacustrine	Oil	8,944	10,993	19,937	2,268	13,261	22,205	90
55	39480101	Dingo-Mungaroo/Barrow	Gas	489	660	1,149	2,249	2,909	3,398	34
56	60600201	South Falklands Basin	Oil	0	0	0	2,229	2,229	2,229	0
57	60210102	Cretaceous Carbonates	Oil	0	0	0	2,200	2,200	2,200	0
58	10160103	East and Southeast Margins Subsalt	Oil	131	1,086	1,217	2,196	3,283	3,414	36
59	20710101	Gulf of Suez Block-Fault Fairway	Oil	6,310	3,444	9,754	2,171	5,615	11,925	82
60	31270102	Pre-Tertiary Buried Hills	Oil	1,471	3,145	4,616	2,144	5,289	6,760	68
61	37010101	Brunei-Sabah Deltaics	Oil	3,872	2,780	6,652	2,137	4,917	8,789	76
62	20710201	Red Sea Coastal Block Faults	Gas	22	133	155	2,136	2,269	2,291	7
63	11090101	Foldbelt-Foothills	Oil	752	2,738	3,490	2,094	4,832	5,584	62
64	60980103	Maturin Sub-Basin	Oil	7,468	1,978	9,446	1,919	3,897	11,365	83
65	20230202	Basinal Oil and Gas	Oil	0	0	0	1,886	1,886	1,886	0

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
66	20540201	Tanezzuft-Melhrir Structural/Stratigraphic	Oil	0	6	6	1,875	1,881	1,881	0
67	52150101	Jeanne d'Arc	Oil	0	1,582	1,582	1,796	3,378	3,378	47
68	60810101	Cretaceous-Paleogene Basin	Oil	1,346	326	1,672	1,711	2,038	3,383	49
69	10150101	Supra-Domanik Carbonates/Clastics	Oil	19,973	14,931	34,904	1,676	16,607	36,580	95
70	80430101	Eocene-Miocene Bombay Shelf	Oil	2,337	3,920	6,257	1,612	5,531	7,868	80
71	12100101	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	Gas	1	2,005	2,006	1,611	3,616	3,617	55
72	61070101	Inner Forearc Deformation Belt	Oil	0	0	0	1,536	1,536	1,536	0
73	10160101	North and West Margins Subsalt Pinnacle Reefs	NA	NA	NA	NA	1,522	NA	NA	NA
74	60290102	Late Cretaceous-Tertiary Deep-Water Sandstones	Oil	55	67	122	1,457	1,523	1,579	8
75	60960101	Central	Oil	152	2,942	3,094	1,312	4,254	4,406	70
76	11740301	Northern West Siberian Onshore Gas	Gas	66	10,119	10,185	1,304	11,424	11,489	89
77	20160101	Fahud-Huqf Combined Structural	Oil	1,259	1,426	2,685	1,304	2,731	3,990	67
78	11120102	Lower Kura Depression and Adjacent Shelf	Oil	1,035	1,004	2,040	1,275	2,279	3,315	62
79	38170101	Kutei Basin Deltaics	Oil	2,195	684	2,879	1,258	1,942	4,137	70
80	60450102	Foreland Basins	Oil	0	2	2	1,254	1,256	1,256	0
81	37010102	Brunei-Sabah Turbidites	Oil	81	165	246	1,252	1,417	1,498	16
82	12070101	Yenisey Foldbelt Riphean-Craton Margin Riphean	Oil	0	34	34	1,213	1,246	1,246	3
83	39100301	Malita	Oil	123	378	502	1,146	1,524	1,648	30
84	39130101	Late Jurassic/Early Cretaceous-Mesozoic	Gas	19	27	46	1,055	1,083	1,101	4
85	60630101	Malvinas Extensional Structures	Oil	0	10	10	1,031	1,041	1,041	1
86	71830101	Coastal Plain and Offshore	Oil	74	162	236	1,004	1,166	1,240	19
87	37030101	South Malay Lacustrine	Oil	1,459	1,557	3,017	1,003	2,560	4,019	75
88	40250102	Moray Firth	Oil	2,248	2,196	4,444	947	3,143	5,391	82
89	60350102	Cretaceous Carbonates	Oil	261	166	426	932	1,097	1,358	31
90	38080101	Pematang/Sihapas Siliciclastics	Oil	8,349	4,868	13,217	899	5,768	14,117	94
91	53050107	Tamabra-Like Debris-Flow-Breccia Limestone North of Campeche	Oil	0	0	0	871	871	871	0
92	60550101	Neuquen Extensional Structures	Oil	1,111	605	1,716	862	1,467	2,578	67
93	10090102	Devonian Synrift	Oil	0	0	0	848	848	848	0
94	20540101	Tanezzuft-Oued Mya Structural/Stratigraphic	Oil	5,872	4,971	10,843	830	5,801	11,673	93
95	11500101	Mesozoic Sandstone Reservoirs	Oil	459	1,827	2,286	814	2,641	3,100	74
96	53050103	Tamabra-Like Debris-Flow-Breccia Limestone and Overlying Strata	Oil	26	54	80	807	860	886	9
97	72030401	Cuanza-Namibe	Oil	86	20	107	790	810	897	12
98	11090301	Offshore Prikumsk Zone	Oil	0	0	0	789	789	789	0
99	20140101	Ghaba-Makarem Combined Structural	Oil	715	1,313	2,028	743	2,056	2,771	73
100	31440101	Subtle Traps	Oil	171	979	1,150	735	1,714	1,885	61
101	72030101	Gabon Subsalt	Oil	708	1,044	1,752	727	1,772	2,480	71
102	60450103	Foreland Central Chaco High	Oil	0	0	0	711	711	711	0
103	10150103	Sub-Domanik Devonian Clastics	Oil	20,807	5,632	26,439	682	6,314	27,121	97
104	20480101	Bou Dabbous-Tertiary Structural/Stratigraphic	Oil	481	1,633	2,114	667	2,300	2,782	76
105	11090201	South Mangyshlak (Entire)	Oil	2,406	2,835	5,241	651	3,486	5,893	89

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
106	10160102	North and West Margins Subsalt Barrier Reefs	Oil	0	134	134	637	771	771	17
107	40610201	Romania Flysch Zone	Oil	1,039	909	1,948	564	1,473	2,512	78
108	10500101	Kolguyev Terrace	Gas	0	51	51	563	614	614	8
109	53050104	Tamabra-Like Debris-Flow-Breccia Limestone of the Golden Lane	Oil	1,917	1,392	3,308	557	1,948	3,865	86
110	37020102	Balingian	Oil	168	460	628	529	989	1,157	54
111	80480101	Central Burma Basin	Oil	494	142	637	516	658	1,152	55
112	20190103	Mesozoic/Tertiary Foredeep Fold and Thrust	Gas	92	64	156	513	577	669	23
113	52430202	Leduc Oil and Gas	Oil	8,113	1,304	9,417	501	1,805	9,918	95
114	31540103	Southwest Foldbelt	Oil	17	24	41	495	519	536	8
115	60590101	Magallanes Extensional Structures	Gas	595	620	1,216	494	1,114	1,709	71
116	61170101	North Cuba Fold and Thrust Belt	Oil	65	232	297	494	726	790	38
117	80430102	Eocene-Miocene Deltaics	Oil	1,038	1,146	2,183	479	1,625	2,662	82
118	38280101	South Sumatra	Oil	1,842	587	2,429	469	1,055	2,898	84
119	60340103	Abrolhos Sub-Volcanic Structures	Oil	0	0	0	468	468	468	0
120	31150101	Upper Paleozoic/Lower Mesozoic Nonmarine Coarse Clastics	Oil	937	5,687	6,624	467	6,154	7,091	93
121	38240101	Sunda/Asri	Oil	828	431	1,259	462	894	1,722	73
122	11090103	Foreland Slope and Foredeep	Oil	0	0	0	452	452	452	0
123	20710202	Red Sea Salt Basin	Oil	0	0	0	443	443	443	0
124	60980201	Trinidad Basins	Oil	2,780	667	3,447	416	1,083	3,863	89
125	20480201	Jurassic-Cretaceous Structural/Stratigraphic	Oil	39	64	103	403	467	506	20
126	80340101	Sylhet-Kopili/Barail-Tipam Composite	Oil	911	1,625	2,536	399	2,024	2,935	86
127	40680101	Subsalt	Gas	0	0	0	388	388	388	0
128	60980102	Guarico Sub-Basin	Gas	268	54	322	385	439	707	46
129	20430103	Offshore Sirte Hypothetical	Oil	0	0	0	382	382	382	0
130	20160201	Natih-Fiqa Structural/Stratigraphic	Oil	1,299	553	1,852	371	925	2,224	83
131	53050105	Tamaulipas-Like Basinal Limestone and Tertiary Strata Without Underlying Evaporites	Oil	1,354	273	1,627	366	638	1,993	82
132	40600201	Thermal Triassic	Oil	78	254	332	360	614	692	48
133	60580101	San Jorge Extensional Structures	Oil	2,330	776	3,106	347	1,123	3,453	90
134	20710103	Southern Gulf of Suez	Oil	41	15	57	344	359	400	14
135	40470201	Deformed Belt	Oil	640	283	923	344	627	1,267	73
136	60990102	Southwest Maracaibo Basin Fold Belt	Oil	720	141	861	341	482	1,202	72
137	40170102	Mid-Norway Continental Margin	Gas	0	0	0	334	334	334	0
138	60550102	Neuquen Foothills Structure	Oil	159	138	297	334	472	631	47
139	11090303	Central Caspian Offshore	Oil	0	0	0	331	331	331	0
140	38170103	Kutei Basin Fold and Thrust Belt	NA	NA	NA	NA	318	NA	NA	NA
141	39300101	Gippsland	Oil	3,077	784	3,860	310	1,093	4,170	93
142	60210103	Late Cretaceous-Tertiary Nearshore Sandstones	Oil	17	46	63	301	347	364	17
143	31440102	Anticlinal	Oil	12,228	2,192	14,420	291	2,483	14,711	98
144	53050101	El Abra-Like Reef and Backreef Limestone	Oil	2,546	(-483)	2,063	289	(-195)	2,352	88
145	11090302	Onshore Stavropol-Prikumsk	Oil	1,200	(-380)	820	287	(-93)	1,107	74

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
146	11090102	Terek-Sunzha Subsalt Jurassic	Gas	0	0	0	283	283	283	0
147	11080101	Tertiary Foredeep	Oil	1,268	(-770)	498	280	(-490)	778	64
148	40610202	Romania Ploiesti Zone	Oil	1,793	374	2,167	278	652	2,445	89
149	10500102	South Barents and Ludlov Saddle	Gas	0	0	0	257	257	257	0
150	20430104	Southeast Sirte Hypothetical	Oil	0	0	0	253	253	253	0
151	10090101	Carboniferous-Lower Permian Clastics	Gas	110	1,501	1,611	251	1,752	1,862	87
152	60900104	La Luna and Older	Oil	11	4	15	231	235	246	6
153	10080103	Foredeep Basins	Gas	803	(-719)	84	214	(-504)	299	28
154	60590102	Andean Fold Belt Structures	Oil	0	0	0	210	211	211	0
155	80480102	Irrawaddy-Andaman	Gas	34	46	79	209	254	288	28
156	60830201	Cretaceous-Paleogene Santa Elena Block	Oil	118	53	171	200	252	370	46
157	40480101	Greater Hungarian Plain Basins	Oil	731	358	1,089	196	555	1,285	85
158	38240201	Ardjuna	Oil	727	1,181	1,908	195	1,377	2,104	91
159	60900101	Northern	Oil	1,556	175	1,730	191	366	1,921	90
160	60900102	Southern	Oil	348	333	681	188	521	869	78
161	11120105	Iran Onshore/Nearshore	Oil	0	0	0	185	185	185	0
162	60450101	Sub-Andean Fold and Thrust Belt	Gas	257	62	318	181	242	499	64
163	40610101	Moesian Platform	Oil	1,251	542	1,793	171	713	1,963	91
164	20580301	Tanezzuft-Sbaa Structural/Stratigraphic	Oil	0	284	284	162	446	446	64
165	70130101	Coastal Plain and Offshore	Oil	0	10	10	157	167	168	6
166	60580102	San Bernardo Fold Belt Structures	Oil	115	124	240	151	275	390	61
167	10150102	Lower Volga	Oil	1,803	726	2,529	148	874	2,677	94
168	80260101	Kohat-Potwar Intrathrust Basin	Oil	204	121	324	145	266	469	69
169	39100101	Barnett	Oil	0	15	15	140	155	155	10
170	11500201	Jurassic-Tertiary	Oil	0	80	80	139	220	220	37
171	31280101	Jurassic/Triassic Fluvial and Lacustrine Sandstone	Oil	81	602	683	138	740	821	83
172	10500103	North Barents	Gas	0	0	0	135	135	135	0
173	39480201	Locker-Mungaroo/Barrow	Gas	0	6	6	132	137	137	4
174	52430302	Exshaw-Rundle Oil and Gas	Oil	1,122	415	1,537	126	541	1,663	92
175	37030102	North Malay Lacustrine	Oil	0	0	0	124	124	124	0
176	80420101	Greater Indus Foreland and Foldbelt	Gas	111	70	180	119	188	299	60
177	73030101	Offshore	Gas	0	0	0	116	116	116	0
178	40480201	Zala-Drava-Sava Basins	Oil	836	265	1,101	114	379	1,215	91
179	11540104	Murgab Depression Subsalt	Gas	31	485	516	113	597	628	82
180	38220101	North Sumatra	Gas	496	178	674	112	289	786	86
181	52440401	Lodgepole Oil	Oil	2,239	539	2,778	111	650	2,889	96
182	37020201	East Natuna	Gas	0	20	20	102	122	122	16
183	37030201	South Malay Coaly	Gas	58	533	592	101	634	693	85
184	38220102	Mergui	Gas	0	0	0	101	101	101	0
185	60900103	Eastern	Gas	0	0	0	99	99	99	0
186	31150201	Jurassic/Tertiary Fluvial and Lacustrine Sandstone	Oil	16	193	210	96	289	306	69
187	52430402	Combined Triassic/Jurassic Oil and Gas	Oil	965	277	1,242	96	373	1,338	93
188	20710102	Gulf of Suez Qaa Plain	Oil	0	0	0	93	93	93	0

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
189	60550103	Dorsal de Neuquen Structure	Oil	262	95	357	93	189	450	79
190	11080103	Subsalt Jurassic	Gas	4	1	5	90	91	95	5
191	31540102	Kuche (Northern) Foldbelt	Gas	7	0	7	89	89	96	8
192	11540102	Karabil-Badkhyz (Southern Area)	Gas	0	110	111	88	198	198	56
193	52430102	Keg River Oil and Gas	Oil	835	176	1,011	84	260	1,095	92
194	40360102	Southern Permian Basin-Europe Onshore	Gas	2,029	372	2,400	74	446	2,474	97
195	60410201	Ene	Oil	0	0	0	74	74	74	0
196	20580501	Tanezzuft-Benoud Structural/Stratigraphic	Gas	16	72	88	72	144	160	55
197	11540101	Northern and Western Areas	Gas	48	92	140	70	162	210	67
198	80470201	Western Shelf and Slope	NA	NA	NA	NA	64	NA	NA	NA
199	40360103	Southern Permian Basin-Offshore	Gas	232	176	408	62	238	470	87
200	60340101	Espirito Santo Shelf	Oil	93	37	130	54	91	184	71
201	40480601	Hungarian Paleogene Basin	Oil	10	1	11	49	50	60	18
202	11080102	Foreland Slope	Gas	1	19	20	48	67	68	30
203	40470301	Paleozoic Reservoirs	Oil	0	1	1	47	47	47	1
204	10150201	Permian Reefs/Thrust Folds	Gas	106	(-41)	65	42	(1)	106	61
205	60830101	Neogene Pull-Apart Basin	Oil	4	0	4	37	37	41	11
206	52430602	Second White Specks-Cardium Oil and Gas	Oil	1,929	494	2,423	36	529	2,459	99
207	20580201	Tanezzuft-Ahnet Structural/Stratigraphic	Gas	0	1	1	34	35	35	3
208	20580101	Tanezzuft-Timimoun Structural/Stratigraphic	Gas	0	0	0	31	31	31	0
209	60290101	Western Pre-Aptian Reservoirs	Oil	413	157	570	31	187	601	95
210	31420201	Jurassic Lacustrine	Oil	38	71	109	27	99	136	80
211	80470302	Eastern Fold Belt	Gas	3	2	4	24	26	28	16
212	10080101	Northwest Izhma-Pechora Depression	NA	NA	NA	NA	18	NA	NA	NA
213	20580601	Tanezzuft-Bechar/Abadla Structural/Stratigraphic	Gas	0	0	0	16	16	16	0
214	80470301	Central Basin	Gas	0	0	0	15	15	15	0
215	20580401	Tanezzuft-Mouydir Structural/Stratigraphic	Gas	0	0	0	12	12	12	0
216	52440301	Bakken Sandstone	Oil	5	2	7	11	13	18	40
217	52440201	Brightholme Oil	Oil	11	4	14	8	11	22	66
218	40360101	Southern Permian Basin-U.K. Onshore	Oil	39	25	64	7	32	71	90
219	52440101	Yeoman Oil	Oil	1	0	1	5	6	6	15
220	11500301	Upper Paleozoic Carbonates	NA	NA	NA	NA	0	NA	NA	NA
221	11540103	Murgab Depression Suprasalt	Gas	1	(-1)	0	0	(-1)	0	NA
222	20190301	Khuff Carbonates in Salt Structures	Gas	0	500	500	0	500	500	100
223	20210102	North Gulf Salt Basin Structural Gas	Gas	0	150	150	0	150	150	100
224	20300201	Northern Qatar Arch Extension	Gas	0	0	0	0	0	0	NA
225	31420101	Southeastern Fold Belt	Gas	0	0	0	0	0	0	100
226	31420102	Northwestern Depression/Foldbelt	Gas	0	0	0	0	0	0	NA
227	31420401	Leshan-Longnusi Paleohigh	Gas	9	(-8)	1	0	(-8)	1	100
228	31420402	Lower Paleozoic of Southeastern Fold Belt	Gas	0	0	0	0	0	0	NA
229	31440201	Structural Traps	Gas	0	5	5	0	5	5	100
230	37020101	Central Luconia	Gas	0	170	170	0	170	170	100
231	39100201	Petrel	Gas	0	0	0	0	0	0	NA

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
232	39100202	Vulcan Graben	Gas	0	0	0	0	0	0	NA
233	40470101	Foreland Basin	Gas	1	1	1	0	1	1	100
234	40480301	Danube Basin	Gas	0	0	0	0	0	0	NA
235	40480401	Transcarpathian Basin	Gas	0	0	0	0	0	0	NA
236	40570101	Transylvanian Neogene Suprasalt Gas	Gas	0	0	0	0	0	0	NA
237	40600101	Neogene Flysch Gas	Gas	13	0	14	0	0	14	100
238	52430101	Keg River Gas	Gas	0	0	0	0	0	0	NA
239	52430201	Leduc Gas	Gas	39	2	42	0	2	42	100
240	52430301	Exshaw-Rundle Gas	Gas	170	20	191	0	20	191	100
241	52430401	Combined Triassic/Jurassic Gas	Gas	47	7	54	0	7	54	100
242	52430501	Mannville Gas	Gas	0	0	0	0	0	0	NA
243	52430601	Second White Specks-Cardium Gas	Gas	0	0	0	0	0	0	NA
244	60220101	Amazon Delta and Submarine Fan	NA	NA	NA	NA	0	NA	NA	NA
245	61030101	Carupano Basin Gas	Gas	0	20	20	0	20	20	100
246	80420102	Indus Fan	Gas	0	0	0	0	0	0	NA
NA	10090103	Continuous Basin-Centered Gas Accumulation	NA	0	0	0	NA	NA	NA	NA
NA	10150104	Self-Sourced Domanik	NA	0	0	0	NA	NA	NA	NA
NA	10160105	Basin Center Subsalt	NA	0	0	0	NA	NA	NA	NA
NA	11740102	Self-Sourced Bazhenov Fractured Reservoirs	NA	0	0	0	NA	NA	NA	NA
NA	31150301	Continuous-Type (Basin-Centered) Gas	NA	0	0	0	NA	NA	NA	NA
NA	31270201	Coal-Sourced Gas	NA	0	0	0	NA	NA	NA	NA
NA	31280201	Basin Centered Gas (Continuous) in Ordovician Carbonate and Permian Sandstone	NA	0	0	0	NA	NA	NA	NA
NA	31280202	Carboniferous and Permian Coalbed Methane (Continuous)	NA	0	0	0	NA	NA	NA	NA
NA	31420103	Continuous Gas in Central Uplift/Northwestern Depression	NA	0	0	0	NA	NA	NA	NA
NA	31420301	Continuous Gas in Northwestern Depression/Central Uplift	NA	NA	NA	NA	NA	NA	NA	NA
NA	38240301	Biogenic Gas	NA	0	0	0	NA	NA	NA	NA
NA	38240401	Billiton Basin Hypothetical	NA	0	0	0	NA	NA	NA	NA
NA	40480501	Central Carpathian Paleogene Basin	NA	NA	NA	NA	NA	NA	NA	NA
NA	40570102	Transylvanian Subsalt	NA	0	0	0	NA	NA	NA	NA
NA	52150201	Graben Systems Exclusive of Jeanne d'Arc	NA	0	0	0	NA	NA	NA	NA
NA	52430502	Mannville Continuous (Basin-Center) Gas	NA	0	0	0	NA	NA	NA	NA
NA	52430603	Upper Cretaceous Eastern Shallow Gas	NA	216	49	265	NA	NA	NA	NA
NA	60220102	Offshore Gas Hydrates	NA	0	0	0	NA	NA	NA	NA
NA	60370102	Offshore Gas Hydrates	NA	0	0	0	NA	NA	NA	NA
NA	60580201	Hypothetical Basin-Centered Gas	NA	0	0	0	NA	NA	NA	NA
NA	60980104	Orinoco Heavy Oil and Tar Belt	NA	38	3,719	3,757	NA	NA	NA	NA
NA	60990103	Basin-Centered Gas	NA	0	0	0	NA	NA	NA	NA
NA	61070102	Barbados Accretionary Prism	NA	8	2	11	NA	NA	NA	NA
NA	80470101	Coalbed Gas	NA	0	0	0	NA	NA	NA	NA

**Table AR-2b. Assessment units ranked by mean (expected) undiscovered gas.**

[BCFG, billion cubic feet of gas. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative gas is the reported volume of gas that has been produced. Remaining gas is the calculated remaining reserves; the difference between known and cumulative gas. Known gas is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered gas is the mean volume estimated in World Petroleum Assessment 2000. Future gas is the remaining gas plus estimated mean undiscovered gas. Gas endowment is the known gas plus estimated mean undiscovered gas volumes. Discovery maturity is the percentage of gas discovered (known gas) with respect to gas endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. NA means not applicable; it is shown for all values except mean undiscovered oil if only one field is present in the assessment unit; and for major commodity, mean undiscovered volume, future volume, endowment, and discovery maturity of assessment units not assessed.]

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
1	11740302	South Kara Sea Offshore	Gas	0	81,700	81,700	403,875	485,575	485,575	17
2	20190302	Paleozoic Reservoirs	NA	NA	NA	NA	323,892	NA	NA	NA
3	20210101	Central Arch Horst-Block Anticlinal Oil and Gas	Oil	0	12,115	12,115	230,387	242,502	242,502	5
4	10500102	South Barents and Ludlov Saddle	Gas	0	78,140	78,140	189,244	267,384	267,384	29
5	20210102	North Gulf Salt Basin Structural Gas	Gas	0	67,000	67,000	152,952	219,952	219,952	30
6	11540104	Murgab Depression Subsalt	Gas	16,456	54,120	70,576	141,762	195,883	212,338	33
7	11740301	Northern West Siberian Onshore Gas	Gas	188,736	896,852	1,085,588	136,608	1,033,460	1,222,196	89
8	40170102	Mid-Norway Continental Margin	Gas	0	0	0	107,832	107,832	107,832	0
9	20300101	Cretaceous Reservoirs	Oil	15,185	218,613	233,798	104,098	322,711	337,896	69
10	11740101	Upper Jurassic-Cretaceous Sandstones	Oil	29,287	68,295	97,582	96,934	165,229	194,516	50
11	20300102	Tertiary Reservoirs	Oil	10,075	249,365	259,440	93,499	342,864	352,939	74
12	71920101	Agbada Reservoirs	Oil	6,232	87,579	93,811	85,176	172,755	178,986	52
13	11120104	Central Offshore	Oil	0	0	0	82,836	82,836	82,836	0
14	52000101	Northeast Greenland Shelf Rift Systems	Oil	0	0	0	80,709	80,709	80,709	0
15	20300201	Northern Qatar Arch Extension	Gas	0	131,220	131,220	69,031	200,251	200,251	66
16	10160104	South Margin Subsalt	Oil	428	97,672	98,100	67,521	165,193	165,621	59
17	20230101	Horst/Graben-Related Oil and Gas	Oil	47	1,614	1,661	64,510	66,124	66,172	3
18	60360101	Santos Shelf	Oil	12	1,113	1,125	62,874	63,987	63,999	2
19	10500103	North Barents	Gas	0	0	0	59,820	59,820	59,820	0
20	13220101	Onshore and Offshore Northeastern Shelf	Oil	162	22,221	22,383	57,451	79,673	79,835	28
21	40170101	Halten Terrace-Trondelag Platform	Oil	0	15,662	15,662	57,369	73,031	73,031	21
22	39480101	Dingo-Mungaroo/Barrow	Gas	1,845	46,400	48,245	56,380	102,780	104,626	46
23	72030302	Central Congo Turbidites	Oil	0	2	2	55,268	55,270	55,270	0
24	40680101	Subsalt	Gas	0	0	0	51,210	51,210	51,210	0
25	71920102	Akata Reservoirs	Oil	0	0	0	47,540	47,540	47,540	0
26	11120103	Gograndag-Okarem Zone and Adjacent Shelf	Oil	173	8,868	9,042	47,515	56,383	56,557	16
27	20190201	Jurassic Reservoirs in Northwest Desert Anticlines	Oil	0	6,500	6,500	46,058	52,558	52,558	12
28	12100101	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	Gas	0	30,210	30,210	46,039	76,249	76,249	40

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
29	20710201	Red Sea Coastal Block Faults	Gas	10	3,517	3,527	43,946	47,463	47,473	7
30	31540101	Tarim Basin Excluding Marginal Foldbelts	Oil	14	5,140	5,154	41,454	46,594	46,608	11
31	38170101	Kutei Basin Deltaics	Oil	8,711	35,762	44,473	35,757	71,519	80,230	55
32	60210101	Late Cretaceous-Tertiary Turbidites	Oil	0	0	0	34,625	34,625	34,625	0
33	11120102	Lower Kura Depression and Adjacent Shelf	Oil	1,285	6,939	8,224	32,091	39,030	40,315	20
34	10160101	North and West Margins Subsalt Pinnacle Reefs	NA	NA	NA	NA	30,544	NA	NA	NA
35	60220101	Amazon Delta and Submarine Fan	NA	NA	NA	NA	29,840	NA	NA	NA
36	60980202	Orinoco Delta and Offshore	Oil	0	0	0	28,049	28,049	28,049	0
37	20560101	Tanezzuft-Illizi Structural/Stratigraphic	Oil	750	44,311	45,061	27,785	72,096	72,846	62
38	80470302	Eastern Fold Belt	Gas	2,669	9,620	12,289	26,494	36,114	38,783	32
39	38170102	Kutei Basin Turbidites	Oil	0	0	0	25,687	25,687	25,687	0
40	60340102	Late Cretaceous-Tertiary Slide Blocks and Turbidites	NA	NA	NA	NA	25,677	NA	NA	NA
41	80420101	Greater Indus Foreland and Foldbelt	Gas	15,101	20,272	35,373	25,405	45,677	60,778	58
42	80470301	Central Basin	Gas	0	0	0	23,985	23,985	23,985	0
43	60980201	Trinidad Basins	Oil	3,156	12,667	15,822	23,960	36,627	39,782	40
44	20190301	Khuff Carbonates in Salt Structures	Gas	1,018	450,982	452,000	22,999	473,981	474,999	95
45	60370101	Pelotas Platform and Basin	Oil	0	0	0	22,806	22,806	22,806	0
46	40250101	Viking Graben	Oil	18,474	94,268	112,742	22,192	116,460	134,933	84
47	37030101	South Malay Lacustrine	Oil	454	23,619	24,073	21,935	45,554	46,008	52
48	60980101	East Venezuela Fold and Thrust Belt	Oil	10,673	41,706	52,379	21,298	63,004	73,677	71
49	60450101	Sub-Andean Fold and Thrust Belt	Gas	6,813	10,004	16,818	20,521	30,525	37,339	45
50	53050102	Tamabra-Like Debris-Flow-Breccia Limestone Overlying Evaporites	Oil	13,276	22,402	35,678	20,450	42,851	56,127	64
51	61030101	Carupano Basin Gas	Gas	0	22,600	22,600	20,103	42,703	42,703	53
52	39130101	Late Jurassic/Early Cretaceous-Mesozoic	Gas	0	17,960	17,960	20,093	38,053	38,053	47
53	10080103	Foredeep Basins	Gas	11,482	4,635	16,117	19,891	24,526	36,008	45
54	53050106	Tamaulipas-Like Basinal Limestone and Tertiary Strata Overlying Evaporites	Oil	1,633	6,007	7,640	18,516	24,522	26,155	29
55	80480102	Irrawaddy-Andaman	Gas	333	8,706	9,040	18,512	27,219	27,552	33
56	38280101	South Sumatra	Oil	3,125	7,080	10,204	18,250	25,330	28,455	36
57	20210202	Salt-Involved Structural Oil	Oil	4,831	40,849	45,680	17,991	58,840	63,671	72
58	60360102	Salt-Structured Deep-Water Sandstones	Oil	0	0	0	17,673	17,673	17,673	0
59	10500101	Kolguyev Terrace	Gas	0	3	3	17,554	17,556	17,556	0
60	60980102	Guarico Sub-Basin	Gas	2,933	44,646	47,579	16,995	61,641	64,574	74
61	12070101	Yenisey Foldbelt Riphean-Craton Margin Riphean	Oil	0	5,052	5,052	16,983	22,035	22,035	23
62	20040101	Ma'Rib-Al Jawf/Shabwah/Masila	Oil	0	17,120	17,120	16,982	34,102	34,102	50
63	40600101	Neogene Flysch Gas	Gas	9,373	9,102	18,475	16,267	25,369	34,741	53
64	60990101	Main Maracaibo Basin	Oil	61	24,857	24,918	16,085	40,942	41,002	61
65	20210201	Horst-Block Anticlinal Oil	Oil	19,990	209,625	229,615	16,055	225,680	245,670	93
66	37010101	Brunei-Sabah Deltaics	Oil	9,168	24,587	33,755	15,977	40,564	49,732	68
67	20190103	Mesozoic/Tertiary Foredeep Fold and Thrust	Gas	2,522	15,470	17,993	15,419	30,889	33,411	54
68	37020101	Central Luconia	Gas	3,731	31,304	35,035	15,067	46,370	50,102	70



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69	10090101	Carboniferous-Lower Permian Clastics	Gas	35,453	23,645	59,098	14,735	38,380	73,833	80
70	10080102	Main Basin Platform	Oil	892	19,623	20,515	14,515	34,138	35,030	59
71	11090101	Foldbelt-Foothills	Oil	192	7,648	7,840	14,512	22,159	22,351	35
72	72030301	Central Congo Delta and Carbonate Platform	Oil	838	8,603	9,441	14,314	22,916	23,754	40
73	20230202	Basinal Oil and Gas	Oil	0	0	0	14,201	14,201	14,201	0
74	60350101	Late Cretaceous-Tertiary Turbidites	Oil	224	5,538	5,761	13,917	19,455	19,679	29
75	40250103	Central Graben	Oil	11,950	28,370	40,320	13,801	42,172	54,122	74
76	72030201	Gabon Suprasalt	Oil	203	1,632	1,835	13,230	14,862	15,065	12
77	40360103	Southern Permian Basin-Offshore	Gas	42,288	31,546	73,834	13,029	44,575	86,862	85
78	40360102	Southern Permian Basin-Europe Onshore	Gas	81,742	66,484	148,227	12,730	79,214	160,957	92
79	20190202	Jurassic Reservoirs in South Gulf Suprasalt/Qatar Arch Structural	Oil	1,951	69,061	71,012	12,457	81,518	83,469	85
80	20540301	Tanezzuft-Ghadames Structural/Stratigraphic	Oil	579	15,905	16,484	12,035	27,940	28,519	58
81	61070101	Inner Forearc Deformation Belt	Oil	0	0	0	11,957	11,957	11,957	0
82	11090102	Terek-Sunzha Subsalt Jurassic	Gas	0	0	0	11,464	11,464	11,464	0
83	39100301	Malita	Oil	0	7,526	7,526	11,346	18,872	18,872	40
84	60630101	Malvinas Extensional Structures	Oil	0	75	75	11,327	11,402	11,402	1
85	31540102	Kuche (Northern) Foldbelt	Gas	2	65	66	10,712	10,777	10,778	1
86	60590101	Magallanes Extensional Structures	Gas	10,042	14,697	24,739	10,386	25,082	35,124	70
87	20140101	Ghaba-Makarem Combined Structural	Oil	149	20,189	20,339	10,112	30,301	30,450	67
88	71830101	Coastal Plain and Offshore	Oil	46	1,903	1,949	10,071	11,974	12,020	16
89	10160106	Suprasalt	Oil	131	1,496	1,628	9,934	11,430	11,562	14
90	20430102	Central Sirte Carbonates	Oil	4,079	24,101	28,180	9,918	34,019	38,098	74
91	11540101	Northern and Western Areas	Gas	24,483	27,929	52,412	9,547	37,476	61,959	85
92	10090102	Devonian Synrift	Oil	0	0	0	9,317	9,317	9,317	0
93	80430101	Eocene-Miocene Bombay Shelf	Oil	4,887	12,641	17,528	9,299	21,940	26,827	65
94	38220101	North Sumatra	Gas	13,977	11,582	25,559	9,117	20,699	34,677	74
95	52150101	Jeanne d'Arc	Oil	0	2,406	2,406	8,893	11,298	11,298	21
96	60600101	North Falklands Basin	Oil	0	0	0	8,871	8,871	8,871	0
97	20230201	Platform Horst/Graben-Related Oil	Oil	0	100	100	8,741	8,841	8,841	1
98	60340103	Abrolhos Sub-Volcanic Structures	Oil	0	0	0	8,545	8,545	8,545	0
99	11500301	Upper Paleozoic Carbonates	NA	NA	NA	NA	8,500	NA	NA	NA
100	39480201	Locker-Mungaroo/Barrow	Gas	27	8,075	8,102	8,331	16,406	16,432	49
101	39100201	Petrel	Gas	0	5,730	5,730	8,328	14,058	14,058	41
102	20160101	Fahud-Huqf Combined Structural	Oil	536	7,097	7,633	8,206	15,303	15,839	48
103	60290102	Late Cretaceous-Tertiary Deep-Water Sandstones	Oil	66	169	236	8,166	8,336	8,402	3
104	11120101	Apsheron-Pribalkhan Zone	Oil	7,133	11,596	18,729	7,908	19,503	26,636	70
105	31540103	Southwest Foldbelt	Oil	192	368	560	7,773	8,141	8,333	7
106	60550101	Neuquen Extensional Structures	Oil	5,293	11,407	16,699	7,724	19,131	24,424	68
107	60600201	South Falklands Basin	Oil	0	0	0	7,710	7,710	7,710	0
108	11540102	Karabil-Badkhyz (Southern Area)	Gas	11,053	47,057	58,110	7,657	54,714	65,767	88
109	60450102	Foreland Basins	Oil	115	53	168	7,375	7,429	7,543	2
110	37010102	Brunei-Sabah Turbidites	Oil	20	2,425	2,445	7,249	9,674	9,694	25

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111	11080102	Foreland Slope	Gas	6,556	8,039	14,595	6,894	14,933	21,489	68
112	10160103	East and Southeast Margins Subsalt	Oil	0	5,364	5,364	6,781	12,145	12,145	44
113	60210102	Cretaceous Carbonates	Oil	0	0	0	6,595	6,595	6,595	0
114	38240201	Ardjuna	Oil	794	6,529	7,322	6,579	13,108	13,901	53
115	53050103	Tamabra-Like Debris-Flow-Breccia Limestone and Overlying Strata	Oil	335	195	530	6,147	6,342	6,677	8
116	38220102	Mergui	Gas	0	0	0	6,005	6,005	6,005	0
117	20710103	Southern Gulf of Suez	Oil	4	30	35	5,974	6,004	6,008	1
118	20710202	Red Sea Salt Basin	Oil	0	0	0	5,875	5,875	5,875	0
119	39300101	Gippsland	Oil	3,501	6,274	9,775	5,658	11,932	15,433	63
120	11740201	Pre-Upper Jurassic	Oil	443	4,738	5,180	5,516	10,254	10,697	48
121	20540201	Tanezzuft-Melhrir Structural/Stratigraphic	Oil	0	125	125	4,887	5,012	5,012	2
122	60810101	Cretaceous-Paleogene Basin	Oil	1,951	941	2,892	4,795	5,736	7,687	38
123	11540103	Murgab Depression Suprasalt	Gas	26,549	22,967	49,516	4,684	27,651	54,200	91
124	31270101	Tertiary Lacustrine	Oil	2,955	8,898	11,853	4,639	13,537	16,492	72
125	80470201	Western Shelf and Slope	NA	NA	NA	NA	4,613	NA	NA	NA
126	52430501	Mannville Gas	Gas	14,229	10,225	24,453	4,597	14,821	29,050	84
127	11090303	Central Caspian Offshore	Oil	0	0	0	4,572	4,572	4,572	0
128	31420101	Southeastern Fold Belt	Gas	5,368	5,313	10,681	4,488	9,801	15,169	70
129	10160102	North and West Margins Subsalt Barrier Reefs	Oil	8	1,262	1,270	4,271	5,533	5,540	23
130	20430103	Offshore Sirte Hypothetical	Oil	0	0	0	4,199	4,199	4,199	0
131	20710101	Gulf of Suez Block-Fault Fairway	Oil	835	5,125	5,960	4,172	9,296	10,132	59
132	38080101	Pematang/Sihapas Siliciclastics	Oil	910	2,956	3,866	4,078	7,034	7,944	49
133	20190102	Cretaceous Reservoirs in South Gulf Suprasalt Structural	Oil	2,705	65,090	67,795	4,073	69,163	71,868	94
134	60960102	Peripheral	Oil	28	214	242	4,036	4,251	4,279	6
135	60350103	Salt Dome Province Tertiary Sandstones	Oil	0	0	0	4,031	4,031	4,031	0
136	80420102	Indus Fan	Gas	0	0	0	3,919	3,919	3,919	0
137	11090301	Offshore Prikumsk Zone	Oil	0	0	0	3,910	3,910	3,910	0
138	31270102	Pre-Tertiary Buried Hills	Oil	32	3,787	3,819	3,875	7,662	7,693	50
139	37030201	South Malay Coaly	Gas	38	23,863	23,901	3,768	27,631	27,669	86
140	60550102	Neuquen Foothills Structure	Oil	159	539	697	3,764	4,303	4,462	16
141	72030101	Gabon Subsalt	Oil	62	780	843	3,674	4,455	4,517	19
142	60590102	Andean Fold Belt Structures	Oil	11	57	69	3,655	3,712	3,723	2
143	80430102	Eocene-Miocene Deltaics	Oil	1,342	5,324	6,665	3,645	8,969	10,310	65
144	73030101	Offshore	Gas	0	6,015	6,015	3,603	9,618	9,618	63
145	38170103	Kutei Basin Fold and Thrust Belt	NA	NA	NA	NA	3,313	NA	NA	NA
146	60980103	Maturin Sub-Basin	Oil	5,288	6,791	12,078	3,258	10,049	15,337	79
147	31440201	Structural Traps	Gas	0	145	145	3,212	3,357	3,357	4
148	60450103	Foreland Central Chaco High	Oil	0	0	0	3,211	3,211	3,211	0
149	11080101	Tertiary Foredeep	Oil	945	2,999	3,944	3,139	6,137	7,083	56
150	60580101	San Jorge Extensional Structures	Oil	1,435	1,534	2,968	3,038	4,572	6,006	49
151	20580201	Tanezzuft-Ahnet Structural/Stratigraphic	Gas	0	3,117	3,117	2,973	6,090	6,090	51

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152	11120105	Iran Onshore/Nearshore	Oil	0	0	0	2,960	2,960	2,960	0
153	20190101	Cretaceous Reservoirs in Northwest Desert Anticlines	Oil	1,114	15,198	16,312	2,819	18,017	19,131	85
154	31420401	Leshan-Longnusi Paleohigh	Gas	491	859	1,350	2,763	3,622	4,113	33
155	20480101	Bou Dabbous-Tertiary Structural/Stratigraphic	Oil	37	15,472	15,509	2,746	18,218	18,256	85
156	60900103	Eastern	Gas	0	2,000	2,000	2,735	4,735	4,735	42
157	39100202	Vulcan Graben	Gas	0	0	0	2,668	2,668	2,668	0
158	20580501	Tanezzuft-Benoud Structural/Stratigraphic	Gas	4,980	100,070	105,050	2,541	102,611	107,591	98
159	52430201	Leduc Gas	Gas	4,964	4,257	9,221	2,442	6,699	11,663	79
160	40480101	Greater Hungarian Plain Basins	Oil	5,436	4,221	9,657	2,395	6,616	12,052	80
161	40470201	Deformed Belt	Oil	3,360	2,033	5,393	2,345	4,378	7,738	70
162	20540101	Tanezzuft-Oued Mya Structural/Stratigraphic	Oil	68	8,905	8,973	2,341	11,246	11,314	79
163	40470101	Foreland Basin	Gas	5,455	5,205	10,660	2,321	7,525	12,980	82
164	20480201	Jurassic-Cretaceous Structural/Stratigraphic	Oil	6	1,295	1,301	2,280	3,575	3,581	36
165	11090201	South Mangyshlak (Entire)	Oil	28	5,679	5,707	2,262	7,941	7,969	72
166	11080103	Subsalt Jurassic	Gas	84	81	165	2,219	2,300	2,384	7
167	37020102	Balingian	Oil	0	2,084	2,084	2,217	4,301	4,301	48
168	52430301	Exshaw-Rundle Gas	Gas	10,268	5,145	15,413	2,197	7,342	17,610	88
169	11500201	Jurassic-Tertiary	Oil	0	1,450	1,450	2,180	3,630	3,630	40
170	60960101	Central	Oil	111	14,961	15,071	2,180	17,141	17,251	87
171	40610201	Romania Flysch Zone	Oil	530	2,692	3,222	2,177	4,869	5,399	60
172	40570101	Transylvanian Neogene Suprasalt Gas	Gas	21,194	9,537	30,731	2,083	11,620	32,814	94
173	80480101	Central Burma Basin	Oil	389	591	981	2,008	2,600	2,989	33
174	37020201	East Natuna	Gas	0	45,045	45,045	1,963	47,008	47,008	96
175	11090103	Foreland Slope and Foredeep	Oil	0	0	0	1,804	1,804	1,804	0
176	31440101	Subtle Traps	Oil	3	909	913	1,789	2,698	2,701	34
177	37030102	North Malay Lacustrine	Oil	0	175	175	1,762	1,937	1,937	9
178	40250102	Moray Firth	Oil	629	5,223	5,852	1,752	6,975	7,604	77
179	60350102	Cretaceous Carbonates	Oil	79	403	482	1,743	2,146	2,225	22
180	53050107	Tamabra-Like Debris-Flow-Breccia Limestone North of Campeche	Oil	0	0	0	1,735	1,735	1,735	0
181	40600201	Thermal Triassic	Oil	154	257	412	1,698	1,955	2,109	20
182	31420102	Northwestern Depression/Foldbelt	Gas	302	38	340	1,650	1,687	1,990	17
183	72030401	Cuanza-Namibe	Oil	46	13	59	1,558	1,571	1,617	4
184	10150201	Permian Reefs/Thrust Folds	Gas	571	2,067	2,638	1,547	3,615	4,185	63
185	60990102	Southwest Maracaibo Basin Fold Belt	Oil	918	865	1,783	1,491	2,356	3,275	54
186	52430401	Combined Triassic/Jurassic Gas	Gas	1,465	2,500	3,965	1,289	3,789	5,254	75
187	31420402	Lower Paleozoic of Southeastern Fold Belt	Gas	0	0	0	1,273	1,273	1,273	0
188	80340101	Sylhet-Kopili/Barail-Tipam Composite	Oil	2,039	4,495	6,534	1,178	5,673	7,712	85
189	11090302	Onshore Stavropol-Prikumsk	Oil	9,670	3,829	13,499	1,163	4,992	14,662	92
190	39100101	Barnett	Oil	0	48	48	1,151	1,199	1,199	4
191	40480201	Zala-Drava-Sava Basins	Oil	1,082	2,847	3,929	1,151	3,998	5,080	77
192	10150101	Supra-Domanik Carbonates/Clastics	Oil	4,508	72,570	77,078	1,141	73,710	78,218	99

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193	20580101	Tanezzuft-Timimoun Structural/Stratigraphic	Gas	0	4,200	4,200	1,128	5,328	5,328	79
194	53050104	Tamabra-Like Debris-Flow-Breccia Limestone of the Golden Lane	Oil	1,862	1,961	3,824	1,113	3,074	4,937	77
195	31150201	Jurassic/Tertiary Fluvial and Lacustrine Sandstone	Oil	10	332	342	950	1,281	1,292	26
196	60550103	Dorsal de Neuquen Structure	Oil	2,184	1,122	3,307	927	2,049	4,234	78
197	52430102	Keg River Oil and Gas	Oil	570	691	1,261	907	1,599	2,169	58
198	52430402	Combined Triassic/Jurassic Oil and Gas	Oil	3,119	3,497	6,615	877	4,374	7,493	88
199	38240101	Sunda/Asri	Oil	233	381	614	874	1,255	1,488	41
200	52430101	Keg River Gas	Gas	4,019	1,793	5,812	868	2,661	6,680	87
201	70130101	Coastal Plain and Offshore	Oil	4	45	49	856	901	905	5
202	60410201	Ene	Oil	0	0	0	841	841	841	0
203	52430602	Second White Specks-Cardium Oil and Gas	Oil	3,298	2,151	5,449	840	2,991	6,289	87
204	60210103	Late Cretaceous-Tertiary Nearshore Sandstones	Oil	0	0	0	839	839	839	0
205	20430101	Southeast Sirte Clastics	Oil	1,400	8,187	9,587	808	8,995	10,395	92
206	53050105	Tamaulipas-Like Basinal Limestone and Tertiary Strata Without Underlying Evaporites	Oil	293	1,443	1,736	804	2,247	2,540	68
207	52430202	Leduc Oil and Gas	Oil	4,086	1,050	5,136	782	1,832	5,918	87
208	60410101	Hollin-Napo	Oil	661	955	1,616	755	1,711	2,372	68
209	60580102	San Bernardo Fold Belt Structures	Oil	232	365	597	735	1,100	1,332	45
210	31440102	Anticlinal	Oil	0	685	685	705	1,390	1,390	49
211	10150103	Sub-Domanik Devonian Clastics	Oil	4,720	4,728	9,448	695	5,423	10,144	93
212	20580301	Tanezzuft-Sbaa Structural/Stratigraphic	Oil	0	1,490	1,490	645	2,134	2,134	70
213	61170101	North Cuba Fold and Thrust Belt	Oil	20	77	96	592	668	688	14
214	40610101	Moesian Platform	Oil	1,546	671	2,217	561	1,232	2,778	80
215	10150102	Lower Volga	Oil	6,618	3,314	9,932	558	3,873	10,490	95
216	80260101	Kohat-Potwar Intrathrust Basin	Oil	807	1,174	1,981	551	1,726	2,533	78
217	53050101	El Abra-Like Reef and Backreef Limestone	Oil	209	1,206	1,415	507	1,713	1,922	74
218	60830101	Neogene Pull-Apart Basin	Oil	0	340	340	471	811	811	42
219	52430302	Exshaw-Rundle Oil and Gas	Oil	4,583	1,572	6,155	466	2,038	6,621	93
220	20580601	Tanezzuft-Bechar/Abadla Structural/Stratigraphic	Gas	0	0	0	441	441	441	0
221	40610202	Romania Ploiesti Zone	Oil	1,050	776	1,826	441	1,217	2,267	81
222	60900104	La Luna and Older	Oil	2	2	5	399	401	403	1
223	40470301	Paleozoic Reservoirs	Oil	0	233	233	383	616	616	38
224	20160201	Natih-Fiqa Structural/Stratigraphic	Oil	616	2,485	3,100	363	2,848	3,463	90
225	31150101	Upper Paleozoic/Lower Mesozoic Nonmarine Coarse Clastics	Oil	491	1,757	2,248	346	2,104	2,594	87
226	40480601	Hungarian Paleogene Basin	Oil	15	1	16	339	340	355	4
227	20580401	Tanezzuft-Mouydir Structural/Stratigraphic	Gas	0	0	0	292	292	292	0
228	52430601	Second White Specks-Cardium Gas	Gas	974	1,097	2,071	285	1,382	2,356	88
229	60830201	Cretaceous-Paleogene Santa Elena Block	Oil	148	10	158	224	233	382	41
230	60290101	Western Pre-Aptian Reservoirs	Oil	282	890	1,171	168	1,057	1,339	87
231	40480301	Danube Basin	Gas	7	240	247	146	386	393	63
232	31420201	Jurassic Lacustrine	Oil	50	90	140	137	227	278	51

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233	10080101	Northwest Izhma-Pechora Depression	NA	NA	NA	NA	120	NA	NA	NA
234	60900101	Northern	Oil	2,186	605	2,791	119	724	2,910	96
235	40480401	Transcarpathian Basin	Gas	0	261	261	112	373	373	70
236	11500101	Mesozoic Sandstone Reservoirs	Oil	0	943	943	89	1,033	1,033	91
237	60340101	Espirito Santo Shelf	Oil	42	130	172	65	195	237	73
238	52440401	Lodgepole Oil	Oil	728	166	893	63	228	956	93
239	20430104	Southeast Sirte Hypothetical	Oil	0	0	0	60	60	60	0
240	20710102	Gulf of Suez Qaa Plain	Oil	0	0	0	46	46	46	0
241	60900102	Southern	Oil	121	85	206	40	125	246	84
242	40360101	Southern Permian Basin-U.K. Onshore	Oil	18	81	99	31	112	130	76
243	31280101	Jurassic/Triassic Fluvial and Lacustrine Sandstone	Oil	13	7	20	20	27	40	50
244	52440201	Brightholme Oil	Oil	8	3	11	5	8	16	67
245	52440101	Yeoman Oil	Oil	0	0	0	4	4	4	3
246	52440301	Bakken Sandstone	Oil	0	0	0	3	3	4	9
NA	10090103	Continuous Basin-Centered Gas Accumulation	NA	0	0	0	NA	NA	NA	NA
NA	10150104	Self-Sourced Domanik	NA	0	0	0	NA	NA	NA	NA
NA	10160105	Basin Center Subsalt	NA	0	0	0	NA	NA	NA	NA
NA	11740102	Self-Sourced Bazhenov Fractured Reservoirs	NA	0	0	0	NA	NA	NA	NA
NA	31150301	Continuous-Type (Basin-Centered) Gas	NA	0	0	0	NA	NA	NA	NA
NA	31270201	Coal-Sourced Gas	NA	0	0	0	NA	NA	NA	NA
NA	31280201	Basin Centered Gas (Continuous) in Ordovician Carbonate and Permian Sandstone	NA	0	5,590	5,590	NA	NA	NA	NA
NA	31280202	Carboniferous and Permian Coalbed Methane (Continuous)	NA	0	0	0	NA	NA	NA	NA
NA	31420103	Continuous Gas in Central Uplift/Northwestern Depression	NA	38	13	51	NA	NA	NA	NA
NA	31420301	Continuous Gas in Northwestern Depression/Central Uplift	NA	NA	NA	NA	NA	NA	NA	NA
NA	38240301	Biogenic Gas	NA	0	119	119	NA	NA	NA	NA
NA	38240401	Billiton Basin Hypothetical	NA	0	0	0	NA	NA	NA	NA
NA	40480501	Central Carpathian Paleogene Basin	NA	NA	NA	NA	NA	NA	NA	NA
NA	40570102	Transylvanian Subsalt	NA	0	0	0	NA	NA	NA	NA
NA	52150201	Graben Systems Exclusive of Jeanne d'Arc	NA	0	4,224	4,224	NA	NA	NA	NA
NA	52430502	Mannville Continuous (Basin-Center) Gas	NA	2,942	3,335	6,278	NA	NA	NA	NA
NA	52430603	Upper Cretaceous Eastern Shallow Gas	NA	11,738	7,191	18,929	NA	NA	NA	NA
NA	60220102	Offshore Gas Hydrates	NA	0	0	0	NA	NA	NA	NA
NA	60370102	Offshore Gas Hydrates	NA	0	0	0	NA	NA	NA	NA
NA	60580201	Hypothetical Basin-Centered Gas	NA	0	0	0	NA	NA	NA	NA
NA	60980104	Orinoco Heavy Oil and Tar Belt	NA	3	257	260	NA	NA	NA	NA
NA	60990103	Basin-Centered Gas	NA	0	0	0	NA	NA	NA	NA
NA	61070102	Barbados Accretionary Prism	NA	16	7	22	NA	NA	NA	NA
NA	80470101	Coalbed Gas	NA	0	0	0	NA	NA	NA	NA

**Table AR-2c. Assessment units ranked by conventional oil endowment.**

[MMBO, million barrels of oil. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative oil is the reported volume of oil that has been produced. Remaining oil is the calculated remaining reserves; the difference between known and cumulative oil. Known oil is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered oil is the mean volume estimated in World Petroleum Assessment 2000. Future oil is the remaining oil plus estimated mean undiscovered oil. Oil endowment is the known oil plus estimated mean undiscovered oil volumes. Discovery maturity is the percentage of oil discovered (known oil) with respect to oil endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. Negative values result from inconsistent reporting of cumulative and known volumes. Values in parentheses () are questionable data. NA means not applicable; it is shown for all values except mean undiscovered oil if only one field is present in the assessment unit; and for major commodity, mean undiscovered volume, future volume, endowment, and discovery maturity of assessment units not assessed.]

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
1	20300101	Cretaceous Reservoirs	Oil	53,182	209,735	262,917	74,911	284,646	337,828	78
2	20210201	Horst-Block Anticlinal Oil	Oil	53,906	101,239	155,145	26,715	127,954	181,860	85
3	11740101	Upper Jurassic-Cretaceous Sandstones	Oil	45,819	72,153	117,972	42,947	115,100	160,919	73
4	20300102	Tertiary Reservoirs	Oil	47,285	62,025	109,310	19,605	81,630	128,914	85
5	20210202	Salt-Involved Structural Oil	Oil	9,948	33,902	43,850	14,989	48,891	58,839	75
6	71920101	Agbada Reservoirs	Oil	16,598	17,925	34,522	21,925	39,850	56,447	61
7	60990101	Main Maracaibo Basin	Oil	34,861	13,350	48,211	7,842	21,192	56,053	86
8	20190102	Cretaceous Reservoirs in South Gulf Suprasalt Structural	Oil	10,858	41,236	52,094	3,764	45,000	55,858	93
9	52000101	Northeast Greenland Shelf Rift Systems	Oil	0	0	0	47,148	47,148	47,148	0
10	53050102	Tamabra-Like Debris-Flow-Breccia Limestone Overlying Evaporites	Oil	14,366	18,699	33,065	9,857	28,556	42,922	77
11	10150101	Supra-Domanik Carbonates/Clastics	Oil	19,973	14,931	34,904	1,676	16,607	36,580	95
12	40250101	Viking Graben	Oil	13,038	13,643	26,681	7,412	21,055	34,093	78
13	10150103	Sub-Domanik Devonian Clastics	Oil	20,807	5,632	26,439	682	6,314	27,121	97
14	20210101	Central Arch Horst-Block Anticlinal Oil and Gas	Oil	84	6,142	6,226	19,190	25,331	25,416	24
15	20190101	Cretaceous Reservoirs in Northwest Desert Anticlines	Oil	2,594	16,386	18,981	4,702	21,088	23,683	80
16	20430101	Southeast Sirte Clastics	Oil	5,274	15,622	20,895	2,380	18,002	23,275	90
17	31270101	Tertiary Lacustrine	Oil	8,944	10,993	19,937	2,268	13,261	22,205	90
18	20190202	Jurassic Reservoirs in South Gulf Suprasalt/Qatar Arch Structural	Oil	5,688	12,548	18,236	3,845	16,394	22,081	83
19	10160104	South Margin Subsalt	Oil	0	6,245	6,245	15,467	21,712	21,712	29
20	60350101	Late Cretaceous-Tertiary Turbidites	Oil	1,508	8,122	9,630	10,869	18,991	20,499	47
21	20430102	Central Sirte Carbonates	Oil	8,712	7,465	16,177	3,840	11,305	20,017	81
22	11740201	Pre-Upper Jurassic	Oil	645	11,111	11,756	7,474	18,584	19,230	61
23	72030302	Central Congo Turbidites	Oil	0	205	205	18,522	18,727	18,727	1
24	71920102	Akata Reservoirs	Oil	0	0	0	18,562	18,562	18,562	0

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
25	11120101	Apsheron-Pribalkhan Zone	Oil	10,581	4,512	15,093	3,091	7,602	18,183	83
26	60980101	East Venezuela Fold and Thrust Belt	Oil	3,253	9,978	13,231	4,928	14,905	18,159	73
27	10080102	Main Basin Platform	Oil	2,543	10,442	12,985	4,938	15,379	17,922	72
28	40250103	Central Graben	Oil	7,181	5,588	12,769	4,740	10,328	17,509	73
29	31440102	Anticlinal	Oil	12,228	2,192	14,420	291	2,483	14,711	98
30	72030301	Central Congo Delta and Carbonate Platform	Oil	3,693	5,847	9,540	4,677	10,523	14,216	67
31	38080101	Pematang/Sihapas Siliciclastics	Oil	8,349	4,868	13,217	899	5,768	14,117	94
32	60360101	Santos Shelf	Oil	6	279	285	13,723	14,002	14,008	2
33	60210101	Late Cretaceous-Tertiary Turbidites	Oil	0	0	0	12,745	12,745	12,745	0
34	53050106	Tamaulipas-Like Basinal Limestone and Tertiary Strata Overlying Evaporites	Oil	1,929	2,339	4,268	7,823	10,163	12,092	35
35	20710101	Gulf of Suez Block-Fault Fairway	Oil	6,310	3,444	9,754	2,171	5,615	11,925	82
36	20540101	Tanezzuft-Oued Mya Structural/Stratigraphic	Oil	5,872	4,971	10,843	830	5,801	11,673	93
37	11740301	Northern West Siberian Onshore Gas	Gas	66	10,119	10,185	1,304	11,424	11,489	89
38	20190201	Jurassic Reservoirs in Northwest Desert Anticlines	Oil	0	777	777	10,633	11,410	11,410	7
39	60980103	Maturin Sub-Basin	Oil	7,468	1,978	9,446	1,919	3,897	11,365	83
40	52430202	Leduc Oil and Gas	Oil	8,113	1,304	9,417	501	1,805	9,918	95
41	60410101	Hollin-Napo	Oil	2,889	3,712	6,601	3,023	6,735	9,625	69
42	60360102	Salt-Structured Deep-Water Sandstones	Oil	0	0	0	9,486	9,486	9,486	0
43	20540301	Tanezzuft-Ghadames Structural/Stratigraphic	Oil	1,629	2,909	4,538	4,461	7,370	8,999	50
44	40170101	Halten Terrace-Trondelag Platform	Oil	76	2,585	2,660	6,204	8,788	8,864	30
45	37010101	Brunei-Sabah Deltaics	Oil	3,872	2,780	6,652	2,137	4,917	8,789	76
46	80430101	Eocene-Miocene Bombay Shelf	Oil	2,337	3,920	6,257	1,612	5,531	7,868	80
47	72030201	Gabon Suprasalt	Oil	1,278	836	2,114	5,031	5,867	7,145	30
48	31150101	Upper Paleozoic/Lower Mesozoic Nonmarine Coarse Clastics	Oil	937	5,687	6,624	467	6,154	7,091	93
49	31270102	Pre-Tertiary Buried Hills	Oil	1,471	3,145	4,616	2,144	5,289	6,760	68
50	20560101	Tanezzuft-Illizi Structural/Stratigraphic	Oil	2,286	1,384	3,670	2,814	4,198	6,484	57
51	11120104	Central Offshore	Oil	0	0	0	6,410	6,410	6,410	0
52	31540101	Tarim Basin Excluding Marginal Foldbelts	Oil	21	634	655	5,364	5,998	6,019	11
53	11090201	South Mangyshlak (Entire)	Oil	2,406	2,835	5,241	651	3,486	5,893	89
54	11090101	Foldbelt-Foothills	Oil	752	2,738	3,490	2,094	4,832	5,584	62
55	40250102	Moray Firth	Oil	2,248	2,196	4,444	947	3,143	5,391	82
56	10160106	Suprasalt	Oil	690	1,140	1,830	3,497	4,637	5,327	34
57	20230201	Platform Horst/Graben-Related Oil	Oil	94	379	474	4,682	5,062	5,156	9
58	11120103	Gograndag-Okarem Zone and Adjacent Shelf	Oil	64	242	306	4,764	5,005	5,070	6
59	13220101	Onshore and Offshore Northeastern Shelf	Oil	754	1,428	2,182	2,582	4,010	4,764	46
60	20040101	Ma'rib-Al Jawf/Shabwah/Masila	Oil	649	1,284	1,933	2,740	4,025	4,673	41
61	60960102	Peripheral	Oil	1,027	1,282	2,309	2,319	3,601	4,627	50
62	60350103	Salt Dome Province Tertiary Sandstones	Oil	0	0	0	4,493	4,493	4,493	0
63	60960101	Central	Oil	152	2,942	3,094	1,312	4,254	4,406	70
64	60980202	Orinoco Delta and Offshore	Oil	0	0	0	4,228	4,228	4,228	0
65	39300101	Gippsland	Oil	3,077	784	3,860	310	1,093	4,170	93

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66	38170101	Kutei Basin Deltaics	Oil	2,195	684	2,879	1,258	1,942	4,137	70
67	37030101	South Malay Lacustrine	Oil	1,459	1,557	3,017	1,003	2,560	4,019	75
68	20160101	Fahud-Huqf Combined Structural	Oil	1,259	1,426	2,685	1,304	2,731	3,990	67
69	53050104	Tamabra-Like Debris-Flow-Breccia Limestone of the Golden Lane	Oil	1,917	1,392	3,308	557	1,948	3,865	86
70	60980201	Trinidad Basins	Oil	2,780	667	3,447	416	1,083	3,863	89
71	20230101	Horst/Graben-Related Oil and Gas	Oil	269	944	1,213	2,632	3,577	3,845	32
72	12100101	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	Gas	1	2,005	2,006	1,611	3,616	3,617	55
73	60600101	North Falklands Basin	Oil	0	0	0	3,603	3,603	3,603	0
74	38170102	Kutei Basin Turbidites	Oil	0	0	0	3,569	3,569	3,569	0
75	11740302	South Kara Sea Offshore	Gas	0	0	0	3,510	3,510	3,510	0
76	60580101	San Jorge Extensional Structures	Oil	2,330	776	3,106	347	1,123	3,453	90
77	10160103	East and Southeast Margins Subsalt	Oil	131	1,086	1,217	2,196	3,283	3,414	36
78	39480101	Dingo-Mungaroo/Barrow	Gas	489	660	1,149	2,249	2,909	3,398	34
79	60810101	Cretaceous-Paleogene Basin	Oil	1,346	326	1,672	1,711	2,038	3,383	49
80	52150101	Jeanne d'Arc	Oil	0	1,582	1,582	1,796	3,378	3,378	47
81	11120102	Lower Kura Depression and Adjacent Shelf	Oil	1,035	1,004	2,040	1,275	2,279	3,315	62
82	11500101	Mesozoic Sandstone Reservoirs	Oil	459	1,827	2,286	814	2,641	3,100	74
83	60370101	Pelotas Platform and Basin	Oil	0	0	0	2,938	2,938	2,938	0
84	80340101	Sylhet-Kopili/Barail-Tipam Composite	Oil	911	1,625	2,536	399	2,024	2,935	86
85	38280101	South Sumatra	Oil	1,842	587	2,429	469	1,055	2,898	84
86	52440401	Lodgepole Oil	Oil	2,239	539	2,778	111	650	2,889	96
87	20480101	Bou Dabbous-Tertiary Structural/Stratigraphic	Oil	481	1,633	2,114	667	2,300	2,782	76
88	20140101	Ghaba-Makarem Combined Structural	Oil	715	1,313	2,028	743	2,056	2,771	73
89	10150102	Lower Volga	Oil	1,803	726	2,529	148	874	2,677	94
90	80430102	Eocene-Miocene Deltaics	Oil	1,038	1,146	2,183	479	1,625	2,662	82
91	60550101	Neuquen Extensional Structures	Oil	1,111	605	1,716	862	1,467	2,578	67
92	40610201	Romania Flysch Zone	Oil	1,039	909	1,948	564	1,473	2,512	78
93	72030101	Gabon Subsalt	Oil	708	1,044	1,752	727	1,772	2,480	71
94	40360102	Southern Permian Basin-Europe Onshore	Gas	2,029	372	2,400	74	446	2,474	97
95	52430602	Second White Specks-Cardium Oil and Gas	Oil	1,929	494	2,423	36	529	2,459	99
96	40610202	Romania Ploiesti Zone	Oil	1,793	374	2,167	278	652	2,445	89
97	53050101	El Abra-Like Reef and Backreef Limestone	Oil	2,546	(-483)	2,063	289	(-195)	2,352	88
98	20710201	Red Sea Coastal Block Faults	Gas	22	133	155	2,136	2,269	2,291	7
99	60600201	South Falklands Basin	Oil	0	0	0	2,229	2,229	2,229	0
100	20160201	Natih-Fiqa Structural/Stratigraphic	Oil	1,299	553	1,852	371	925	2,224	83
101	60210102	Cretaceous Carbonates	Oil	0	0	0	2,200	2,200	2,200	0
102	38240201	Ardjuna	Oil	727	1,181	1,908	195	1,377	2,104	91
103	53050105	Tamaulipas-Like Basinal Limestone and Tertiary Strata Without Underlying Evaporites	Oil	1,354	273	1,627	366	638	1,993	82
104	40610101	Moesian Platform	Oil	1,251	542	1,793	171	713	1,963	91
105	60900101	Northern	Oil	1,556	175	1,730	191	366	1,921	90



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106	20230202	Basinal Oil and Gas	Oil	0	0	0	1,886	1,886	1,886	0
107	31440101	Subtle Traps	Oil	171	979	1,150	735	1,714	1,885	61
108	20540201	Tanezzuft-Melhrir Structural/Stratigraphic	Oil	0	6	6	1,875	1,881	1,881	0
109	10090101	Carboniferous-Lower Permian Clastics	Gas	110	1,501	1,611	251	1,752	1,862	87
110	38240101	Sunda/Asri	Oil	828	431	1,259	462	894	1,722	73
111	60590101	Magallanes Extensional Structures	Gas	595	620	1,216	494	1,114	1,709	71
112	52430302	Exshaw-Rundle Oil and Gas	Oil	1,122	415	1,537	126	541	1,663	92
113	39100301	Malita	Oil	123	378	502	1,146	1,524	1,648	30
114	60290102	Late Cretaceous-Tertiary Deep-Water Sandstones	Oil	55	67	122	1,457	1,523	1,579	8
115	61070101	Inner Forearc Deformation Belt	Oil	0	0	0	1,536	1,536	1,536	0
116	37010102	Brunei-Sabah Turbidites	Oil	81	165	246	1,252	1,417	1,498	16
117	60350102	Cretaceous Carbonates	Oil	261	166	426	932	1,097	1,358	31
118	52430402	Combined Triassic/Jurassic Oil and Gas	Oil	965	277	1,242	96	373	1,338	93
119	40480101	Greater Hungarian Plain Basins	Oil	731	358	1,089	196	555	1,285	85
120	40470201	Deformed Belt	Oil	640	283	923	344	627	1,267	73
121	60450102	Foreland Basins	Oil	0	2	2	1,254	1,256	1,256	0
122	12070101	Yenisey Foldbelt Riphean-Craton Margin Riphean	Oil	0	34	34	1,213	1,246	1,246	3
123	71830101	Coastal Plain and Offshore	Oil	74	162	236	1,004	1,166	1,240	19
124	40480201	Zala-Drava-Sava Basins	Oil	836	265	1,101	114	379	1,215	91
125	60990102	Southwest Maracaibo Basin Fold Belt	Oil	720	141	861	341	482	1,202	72
126	37020102	Balingian	Oil	168	460	628	529	989	1,157	54
127	80480101	Central Burma Basin	Oil	494	142	637	516	658	1,152	55
128	11090302	Onshore Stavropol-Prikumsk	Oil	1,200	(-380)	820	287	(-93)	1,107	74
129	39130101	Late Jurassic/Early Cretaceous-Mesozoic	Gas	19	27	46	1,055	1,083	1,101	4
130	52430102	Keg River Oil and Gas	Oil	835	176	1,011	84	260	1,095	92
131	60630101	Malvinas Extensional Structures	Oil	0	10	10	1,031	1,041	1,041	1
132	72030401	Cuanza-Namibe	Oil	86	20	107	790	810	897	12
133	53050103	Tamabra-Like Debris-Flow-Breccia Limestone and Overlying Strata	Oil	26	54	80	807	860	886	9
134	53050107	Tamabra-Like Debris-Flow-Breccia Limestone North of Campeche	Oil	0	0	0	871	871	871	0
135	60900102	Southern	Oil	348	333	681	188	521	869	78
136	10090102	Devonian Synrift	Oil	0	0	0	848	848	848	0
137	31280101	Jurassic/Triassic Fluvial and Lacustrine Sandstone	Oil	81	602	683	138	740	821	83
138	61170101	North Cuba Fold and Thrust Belt	Oil	65	232	297	494	726	790	38
139	11090301	Offshore Prikumsk Zone	Oil	0	0	0	789	789	789	0
140	38220101	North Sumatra	Gas	496	178	674	112	289	786	86
141	11080101	Tertiary Foredeep	Oil	1,268	(-770)	498	280	(-490)	778	64
142	10160102	North and West Margins Subsalt Barrier Reefs	Oil	0	134	134	637	771	771	17
143	60450103	Foreland Central Chaco High	Oil	0	0	0	711	711	711	0
144	60980102	Guarico Sub-Basin	Gas	268	54	322	385	439	707	46
145	37030201	South Malay Coaly	Gas	58	533	592	101	634	693	85
146	40600201	Thermal Triassic	Oil	78	254	332	360	614	692	48

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147	20190103	Mesozoic/Tertiary Foredeep Fold and Thrust	Gas	92	64	156	513	577	669	23
148	60550102	Neuquen Foothills Structure	Oil	159	138	297	334	472	631	47
149	11540104	Murgab Depression Subsalt	Gas	31	485	516	113	597	628	82
150	10500101	Kolguyev Terrace	Gas	0	51	51	563	614	614	8
151	60290101	Western Pre-Aptian Reservoirs	Oil	413	157	570	31	187	601	95
152	31540103	Southwest Foldbelt	Oil	17	24	41	495	519	536	8
153	20480201	Jurassic-Cretaceous Structural/Stratigraphic	Oil	39	64	103	403	467	506	20
154	20190301	Khuff Carbonates in Salt Structures	Gas	0	500	500	0	500	500	100
155	60450101	Sub-Andean Fold and Thrust Belt	Gas	257	62	318	181	242	499	64
156	40360103	Southern Permian Basin-Offshore	Gas	232	176	408	62	238	470	87
157	80260101	Kohat-Potwar Intrathrust Basin	Oil	204	121	324	145	266	469	69
158	60340103	Abrolhos Sub-Volcanic Structures	Oil	0	0	0	468	468	468	0
159	11090103	Foreland Slope and Foredeep	Oil	0	0	0	452	452	452	0
160	60550103	Dorsal de Neuquen Structure	Oil	262	95	357	93	189	450	79
161	20580301	Tanezzuft-Sbaa Structural/Stratigraphic	Oil	0	284	284	162	446	446	64
162	20710202	Red Sea Salt Basin	Oil	0	0	0	443	443	443	0
163	20710103	Southern Gulf of Suez	Oil	41	15	57	344	359	400	14
164	60580102	San Bernardo Fold Belt Structures	Oil	115	124	240	151	275	390	61
165	40680101	Subsalt	Gas	0	0	0	388	388	388	0
166	20430103	Offshore Sirte Hypothetical	Oil	0	0	0	382	382	382	0
167	60830201	Cretaceous-Paleogene Santa Elena Block	Oil	118	53	171	200	252	370	46
168	60210103	Late Cretaceous-Tertiary Nearshore Sandstones	Oil	17	46	63	301	347	364	17
169	40170102	Mid-Norway Continental Margin	Gas	0	0	0	334	334	334	0
170	11090303	Central Caspian Offshore	Oil	0	0	0	331	331	331	0
171	31150201	Jurassic/Tertiary Fluvial and Lacustrine Sandstone	Oil	16	193	210	96	289	306	69
172	10080103	Foredeep Basins	Gas	803	(-719)	84	214	(-504)	299	28
173	80420101	Greater Indus Foreland and Foldbelt	Gas	111	70	180	119	188	299	60
174	80480102	Irrawaddy-Andaman	Gas	34	46	79	209	254	288	28
175	11090102	Terek-Sunzha Subsalt Jurassic	Gas	0	0	0	283	283	283	0
176	10500102	South Barents and Ludlov Saddle	Gas	0	0	0	257	257	257	0
177	20430104	Southeast Sirte Hypothetical	Oil	0	0	0	253	253	253	0
178	60900104	La Luna and Older	Oil	11	4	15	231	235	246	6
179	11500201	Jurassic-Tertiary	Oil	0	80	80	139	220	220	37
180	60590102	Andean Fold Belt Structures	Oil	0	0	0	210	211	211	0
181	11540101	Northern and Western Areas	Gas	48	92	140	70	162	210	67
182	11540102	Karabil-Badkhyz (Southern Area)	Gas	0	110	111	88	198	198	56
183	52430301	Exshaw-Rundle Gas	Gas	170	20	191	0	20	191	100
184	11120105	Iran Onshore/Nearshore	Oil	0	0	0	185	185	185	0
185	60340101	Espirito Santo Shelf	Oil	93	37	130	54	91	184	71
186	37020101	Central Luconia	Gas	0	170	170	0	170	170	100
187	70130101	Coastal Plain and Offshore	Oil	0	10	10	157	167	168	6
188	20580501	Tanezzuft-Benoud Structural/Stratigraphic	Gas	16	72	88	72	144	160	55
189	39100101	Barnett	Oil	0	15	15	140	155	155	10

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
190	20210102	North Gulf Salt Basin Structural Gas	Gas	0	150	150	0	150	150	100
191	39480201	Locker-Mungaroo/Barrow	Gas	0	6	6	132	137	137	4
192	31420201	Jurassic Lacustrine	Oil	38	71	109	27	99	136	80
193	10500103	North Barents	Gas	0	0	0	135	135	135	0
194	37030102	North Malay Lacustrine	Oil	0	0	0	124	124	124	0
195	37020201	East Natuna	Gas	0	20	20	102	122	122	16
196	73030101	Offshore	Gas	0	0	0	116	116	116	0
197	10150201	Permian Reefs/Thrust Folds	Gas	106	(-41)	65	42	(1)	106	61
198	38220102	Mergui	Gas	0	0	0	101	101	101	0
199	60900103	Eastern	Gas	0	0	0	99	99	99	0
200	31540102	Kuche (Northern) Foldbelt	Gas	7	0	7	89	89	96	8
201	11080103	Subsalt Jurassic	Gas	4	1	5	90	91	95	5
202	20710102	Gulf of Suez Qaa Plain	Oil	0	0	0	93	93	93	0
203	60410201	Ene	Oil	0	0	0	74	74	74	0
204	40360101	Southern Permian Basin-U.K. Onshore	Oil	39	25	64	7	32	71	90
205	11080102	Foreland Slope	Gas	1	19	20	48	67	68	30
206	40480601	Hungarian Paleogene Basin	Oil	10	1	11	49	50	60	18
207	52430401	Combined Triassic/Jurassic Gas	Gas	47	7	54	0	7	54	100
208	40470301	Paleozoic Reservoirs	Oil	0	1	1	47	47	47	1
209	52430201	Leduc Gas	Gas	39	2	42	0	2	42	100
210	60830101	Neogene Pull-Apart Basin	Oil	4	0	4	37	37	41	11
211	20580201	Tanezzuft-Ahnet Structural/Stratigraphic	Gas	0	1	1	34	35	35	3
212	20580101	Tanezzuft-Timimoun Structural/Stratigraphic	Gas	0	0	0	31	31	31	0
213	80470302	Eastern Fold Belt	Gas	3	2	4	24	26	28	16
214	52440201	Brightholme Oil	Oil	11	4	14	8	11	22	66
215	61030101	Carupano Basin Gas	Gas	0	20	20	0	20	20	100
216	52440301	Bakken Sandstone	Oil	5	2	7	11	13	18	40
217	20580601	Tanezzuft-Bechar/Abadla Structural/Stratigraphic	Gas	0	0	0	16	16	16	0
218	80470301	Central Basin	Gas	0	0	0	15	15	15	0
219	40600101	Neogene Flysch Gas	Gas	13	0	14	0	0	14	100
220	20580401	Tanezzuft-Mouydir Structural/Stratigraphic	Gas	0	0	0	12	12	12	0
221	52440101	Yeoman Oil	Oil	1	0	1	5	6	6	15
222	31440201	Structural Traps	Gas	0	5	5	0	5	5	100
223	31420401	Leshan-Longnusi Paleohigh	Gas	9	(-8)	1	0	(-8)	1	100
224	40470101	Foreland Basin	Gas	1	1	1	0	1	1	100
225	11540103	Murgab Depression Suprasalt	Gas	1	(-1)	0	0	(-1)	0	NA
226	20300201	Northern Qatar Arch Extension	Gas	0	0	0	0	0	0	NA
227	31420101	Southeastern Fold Belt	Gas	0	0	0	0	0	0	100
228	31420102	Northwestern Depression/Foldbelt	Gas	0	0	0	0	0	0	NA
229	31420402	Lower Paleozoic of Southeastern Fold Belt	Gas	0	0	0	0	0	0	NA
230	39100201	Petrel	Gas	0	0	0	0	0	0	NA
231	39100202	Vulcan Graben	Gas	0	0	0	0	0	0	NA
232	40480301	Danube Basin	Gas	0	0	0	0	0	0	NA

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
233	40480401	Transcarpathian Basin	Gas	0	0	0	0	0	0	NA
234	40570101	Transylvanian Neogene Suprasalt Gas	Gas	0	0	0	0	0	0	NA
235	52430101	Keg River Gas	Gas	0	0	0	0	0	0	NA
236	52430501	Mannville Gas	Gas	0	0	0	0	0	0	NA
237	52430601	Second White Specks-Cardium Gas	Gas	0	0	0	0	0	0	NA
238	80420102	Indus Fan	Gas	0	0	0	0	0	0	NA
NA	10080101	Northwest Izhma-Pechora Depression	NA	NA	NA	NA	18	NA	NA	NA
NA	10090103	Continuous Basin-Centered Gas Accumulation	NA	0	0	0	NA	NA	NA	NA
NA	10150104	Self-Sourced Domanik	NA	0	0	0	NA	NA	NA	NA
NA	10160101	North and West Margins Subsalt Pinnacle Reefs	NA	NA	NA	NA	1,522	NA	NA	NA
NA	10160105	Basin Center Subsalt	NA	0	0	0	NA	NA	NA	NA
NA	11500301	Upper Paleozoic Carbonates	NA	NA	NA	NA	0	NA	NA	NA
NA	11740102	Self-Sourced Bazhenov Fractured Reservoirs	NA	0	0	0	NA	NA	NA	NA
NA	20190302	Paleozoic Reservoirs	NA	NA	NA	NA	13,235	NA	NA	NA
NA	31150301	Continuous-Type (Basin-Centered) Gas	NA	0	0	0	NA	NA	NA	NA
NA	31270201	Coal-Sourced Gas	NA	0	0	0	NA	NA	NA	NA
NA	31280201	Basin Centered Gas (Continuous) in Ordovician Carbonate and Permian Sandstone	NA	0	0	0	NA	NA	NA	NA
NA	31280202	Carboniferous and Permian Coalbed Methane (Continuous)	NA	0	0	0	NA	NA	NA	NA
NA	31420103	Continuous Gas in Central Uplift/Northwestern Depression	NA	0	0	0	NA	NA	NA	NA
NA	31420301	Continuous Gas in Northwestern Depression/Central Uplift	NA	NA	NA	NA	NA	NA	NA	NA
NA	38170103	Kutei Basin Fold and Thrust Belt	NA	NA	NA	NA	318	NA	NA	NA
NA	38240301	Biogenic Gas	NA	0	0	0	NA	NA	NA	NA
NA	38240401	Billiton Basin Hypothetical	NA	0	0	0	NA	NA	NA	NA
NA	40480501	Central Carpathian Paleogene Basin	NA	NA	NA	NA	NA	NA	NA	NA
NA	40570102	Transylvanian Subsalt	NA	0	0	0	NA	NA	NA	NA
NA	52150201	Graben Systems Exclusive of Jeanne d'Arc	NA	0	0	0	NA	NA	NA	NA
NA	52430502	Mannville Continuous (Basin-Center) Gas	NA	0	0	0	NA	NA	NA	NA
NA	52430603	Upper Cretaceous Eastern Shallow Gas	NA	216	49	265	NA	NA	NA	NA
NA	60220101	Amazon Delta and Submarine Fan	NA	NA	NA	NA	0	NA	NA	NA
NA	60220102	Offshore Gas Hydrates	NA	0	0	0	NA	NA	NA	NA
NA	60340102	Late Cretaceous-Tertiary Slide Blocks and Turbidites	NA	NA	NA	NA	2,437	NA	NA	NA
NA	60370102	Offshore Gas Hydrates	NA	0	0	0	NA	NA	NA	NA
NA	60580201	Hypothetical Basin-Centered Gas	NA	0	0	0	NA	NA	NA	NA
NA	60980104	Orinoco Heavy Oil and Tar Belt	NA	38	3,719	3,757	NA	NA	NA	NA
NA	60990103	Basin-Centered Gas	NA	0	0	0	NA	NA	NA	NA
NA	61070102	Barbados Accretionary Prism	NA	8	2	11	NA	NA	NA	NA
NA	80470101	Coalbed Gas	NA	0	0	0	NA	NA	NA	NA
NA	80470201	Western Shelf and Slope	NA	NA	NA	NA	64	NA	NA	NA

**Table AR-2d. Assessment units ranked by conventional gas endowment.**

[BCFG, billion cubic feet of gas. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative gas is the reported volume of gas that has been produced. Remaining gas is the calculated remaining reserves; the difference between known and cumulative gas. Known gas is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered gas is the mean volume estimated in World Petroleum Assessment 2000. Future gas is the remaining gas plus estimated mean undiscovered gas. Gas endowment is the known gas plus estimated mean undiscovered gas volumes. Discovery maturity is the percentage of gas discovered (known gas) with respect to gas endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. NA means not applicable; it is shown for all values except mean undiscovered oil if only one field is present in the assessment unit; and for major commodity, mean undiscovered volume, future volume, endowment, and discovery maturity of assessment units not assessed.]

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
1	11740301	Northern West Siberian Onshore Gas	Gas	188,736	896,852	1,085,588	136,608	1,033,460	1,222,196	89
2	11740302	South Kara Sea Offshore	Gas	0	81,700	81,700	403,875	485,575	485,575	17
3	20190301	Khuff Carbonates in Salt Structures	Gas	1,018	450,982	452,000	22,999	473,981	474,999	95
4	20300102	Tertiary Reservoirs	Oil	10,075	249,365	259,440	93,499	342,864	352,939	74
5	20300101	Cretaceous Reservoirs	Oil	15,185	218,613	233,798	104,098	322,711	337,896	69
6	10500102	South Barents and Ludlov Saddle	Gas	0	78,140	78,140	189,244	267,384	267,384	29
7	20210201	Horst-Block Anticlinal Oil	Oil	19,990	209,625	229,615	16,055	225,680	245,670	93
8	20210101	Central Arch Horst-Block Anticlinal Oil and Gas	Oil	0	12,115	12,115	230,387	242,502	242,502	5
9	20210102	North Gulf Salt Basin Structural Gas	Gas	0	67,000	67,000	152,952	219,952	219,952	30
10	11540104	Murgab Depression Subsalt	Gas	16,456	54,120	70,576	141,762	195,883	212,338	33
11	20300201	Northern Qatar Arch Extension	Gas	0	131,220	131,220	69,031	200,251	200,251	66
12	11740101	Upper Jurassic-Cretaceous Sandstones	Oil	29,287	68,295	97,582	96,934	165,229	194,516	50
13	71920101	Agbada Reservoirs	Oil	6,232	87,579	93,811	85,176	172,755	178,986	52
14	10160104	South Margin Subsalt	Oil	428	97,672	98,100	67,521	165,193	165,621	59
15	40360102	Southern Permian Basin-Europe Onshore	Gas	81,742	66,484	148,227	12,730	79,214	160,957	92
16	40250101	Viking Graben	Oil	18,474	94,268	112,742	22,192	116,460	134,933	84
17	40170102	Mid-Norway Continental Margin	Gas	0	0	0	107,832	107,832	107,832	0
18	20580501	Tanezzuft-Benoud Structural/Stratigraphic	Gas	4,980	100,070	105,050	2,541	102,611	107,591	98
19	39480101	Dingo-Mungaroo/Barrow	Gas	1,845	46,400	48,245	56,380	102,780	104,626	46
20	40360103	Southern Permian Basin-Offshore	Gas	42,288	31,546	73,834	13,029	44,575	86,862	85
21	20190202	Jurassic Reservoirs in South Gulf Suprasalt/Qatar Arch Structural	Oil	1,951	69,061	71,012	12,457	81,518	83,469	85
22	11120104	Central Offshore	Oil	0	0	0	82,836	82,836	82,836	0
23	52000101	Northeast Greenland Shelf Rift Systems	Oil	0	0	0	80,709	80,709	80,709	0
24	38170101	Kutei Basin Deltaics	Oil	8,711	35,762	44,473	35,757	71,519	80,230	55
25	13220101	Onshore and Offshore Northeastern Shelf	Oil	162	22,221	22,383	57,451	79,673	79,835	28
26	10150101	Supra-Domanik Carbonates/Clastics	Oil	4,508	72,570	77,078	1,141	73,710	78,218	99
27	12100101	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	Gas	0	30,210	30,210	46,039	76,249	76,249	40

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
28	10090101	Carboniferous-Lower Permian Clastics	Gas	35,453	23,645	59,098	14,735	38,380	73,833	80
29	60980101	East Venezuela Fold and Thrust Belt	Oil	10,673	41,706	52,379	21,298	63,004	73,677	71
30	40170101	Halten Terrace-Trondelag Platform	Oil	0	15,662	15,662	57,369	73,031	73,031	21
31	20560101	Tanezzuft-Illizi Structural/Stratigraphic	Oil	750	44,311	45,061	27,785	72,096	72,846	62
32	20190102	Cretaceous Reservoirs in South Gulf Suprasalt Structural	Oil	2,705	65,090	67,795	4,073	69,163	71,868	94
33	20230101	Horst/Graben-Related Oil and Gas	Oil	47	1,614	1,661	64,510	66,124	66,172	3
34	11540102	Karabil-Badkhyz (Southern Area)	Gas	11,053	47,057	58,110	7,657	54,714	65,767	88
35	60980102	Guarico Sub-Basin	Gas	2,933	44,646	47,579	16,995	61,641	64,574	74
36	60360101	Santos Shelf	Oil	12	1,113	1,125	62,874	63,987	63,999	2
37	20210202	Salt-Involved Structural Oil	Oil	4,831	40,849	45,680	17,991	58,840	63,671	72
38	11540101	Northern and Western Areas	Gas	24,483	27,929	52,412	9,547	37,476	61,959	85
39	80420101	Greater Indus Foreland and Foldbelt	Gas	15,101	20,272	35,373	25,405	45,677	60,778	58
40	10500103	North Barents	Gas	0	0	0	59,820	59,820	59,820	0
41	11120103	Gograndag-Okarem Zone and Adjacent Shelf	Oil	173	8,868	9,042	47,515	56,383	56,557	16
42	53050102	Tamabra-Like Debris-Flow-Breccia Limestone Overlying Evaporites	Oil	13,276	22,402	35,678	20,450	42,851	56,127	64
43	72030302	Central Congo Turbidites	Oil	0	2	2	55,268	55,270	55,270	0
44	11540103	Murgab Depression Suprasalt	Gas	26,549	22,967	49,516	4,684	27,651	54,200	91
45	40250103	Central Graben	Oil	11,950	28,370	40,320	13,801	42,172	54,122	74
46	20190201	Jurassic Reservoirs in Northwest Desert Anticlines	Oil	0	6,500	6,500	46,058	52,558	52,558	12
47	40680101	Subsalt	Gas	0	0	0	51,210	51,210	51,210	0
48	37020101	Central Luconia	Gas	3,731	31,304	35,035	15,067	46,370	50,102	70
49	37010101	Brunei-Sabah Deltaics	Oil	9,168	24,587	33,755	15,977	40,564	49,732	68
50	71920102	Akata Reservoirs	Oil	0	0	0	47,540	47,540	47,540	0
51	20710201	Red Sea Coastal Block Faults	Gas	10	3,517	3,527	43,946	47,463	47,473	7
52	37020201	East Natuna	Gas	0	45,045	45,045	1,963	47,008	47,008	96
53	31540101	Tarim Basin Excluding Marginal Foldbelts	Oil	14	5,140	5,154	41,454	46,594	46,608	11
54	37030101	South Malay Lacustrine	Oil	454	23,619	24,073	21,935	45,554	46,008	52
55	61030101	Carupano Basin Gas	Gas	0	22,600	22,600	20,103	42,703	42,703	53
56	60990101	Main Maracaibo Basin	Oil	61	24,857	24,918	16,085	40,942	41,002	61
57	11120102	Lower Kura Depression and Adjacent Shelf	Oil	1,285	6,939	8,224	32,091	39,030	40,315	20
58	60980201	Trinidad Basins	Oil	3,156	12,667	15,822	23,960	36,627	39,782	40
59	80470302	Eastern Fold Belt	Gas	2,669	9,620	12,289	26,494	36,114	38,783	32
60	20430102	Central Sirte Carbonates	Oil	4,079	24,101	28,180	9,918	34,019	38,098	74
61	39130101	Late Jurassic/Early Cretaceous-Mesozoic	Gas	0	17,960	17,960	20,093	38,053	38,053	47
62	60450101	Sub-Andean Fold and Thrust Belt	Gas	6,813	10,004	16,818	20,521	30,525	37,339	45
63	10080103	Foredeep Basins	Gas	11,482	4,635	16,117	19,891	24,526	36,008	45
64	60590101	Magallanes Extensional Structures	Gas	10,042	14,697	24,739	10,386	25,082	35,124	70
65	10080102	Main Basin Platform	Oil	892	19,623	20,515	14,515	34,138	35,030	59
66	40600101	Neogene Flysch Gas	Gas	9,373	9,102	18,475	16,267	25,369	34,741	53
67	38220101	North Sumatra	Gas	13,977	11,582	25,559	9,117	20,699	34,677	74
68	60210101	Late Cretaceous-Tertiary Turbidites	Oil	0	0	0	34,625	34,625	34,625	0

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
69	20040101	Ma'rib-Al Jawf/Shabwah/Masila	Oil	0	17,120	17,120	16,982	34,102	34,102	50
70	20190103	Mesozoic/Tertiary Foredeep Fold and Thrust	Gas	2,522	15,470	17,993	15,419	30,889	33,411	54
71	40570101	Transylvanian Neogene Suprasalt Gas	Gas	21,194	9,537	30,731	2,083	11,620	32,814	94
72	20140101	Ghaba-Makarem Combined Structural	Oil	149	20,189	20,339	10,112	30,301	30,450	67
73	52430501	Mannville Gas	Gas	14,229	10,225	24,453	4,597	14,821	29,050	84
74	20540301	Tanezzuft-Ghadames Structural/Stratigraphic	Oil	579	15,905	16,484	12,035	27,940	28,519	58
75	38280101	South Sumatra	Oil	3,125	7,080	10,204	18,250	25,330	28,455	36
76	60980202	Orinoco Delta and Offshore	Oil	0	0	0	28,049	28,049	28,049	0
77	37030201	South Malay Coaly	Gas	38	23,863	23,901	3,768	27,631	27,669	86
78	80480102	Irrawaddy-Andaman	Gas	333	8,706	9,040	18,512	27,219	27,552	33
79	80430101	Eocene-Miocene Bombay Shelf	Oil	4,887	12,641	17,528	9,299	21,940	26,827	65
80	11120101	Apsheron-Pribalkhan Zone	Oil	7,133	11,596	18,729	7,908	19,503	26,636	70
81	53050106	Tamaulipas-Like Basinal Limestone and Tertiary Strata Overlying Evaporites	Oil	1,633	6,007	7,640	18,516	24,522	26,155	29
82	38170102	Kutei Basin Turbidites	Oil	0	0	0	25,687	25,687	25,687	0
83	60550101	Neuquen Extensional Structures	Oil	5,293	11,407	16,699	7,724	19,131	24,424	68
84	80470301	Central Basin	Gas	0	0	0	23,985	23,985	23,985	0
85	72030301	Central Congo Delta and Carbonate Platform	Oil	838	8,603	9,441	14,314	22,916	23,754	40
86	60370101	Pelotas Platform and Basin	Oil	0	0	0	22,806	22,806	22,806	0
87	11090101	Foldbelt-Foothills	Oil	192	7,648	7,840	14,512	22,159	22,351	35
88	12070101	Yenisey Foldbelt Riphean-Craton Margin Riphean	Oil	0	5,052	5,052	16,983	22,035	22,035	23
89	11080102	Foreland Slope	Gas	6,556	8,039	14,595	6,894	14,933	21,489	68
90	60350101	Late Cretaceous-Tertiary Turbidites	Oil	224	5,538	5,761	13,917	19,455	19,679	29
91	20190101	Cretaceous Reservoirs in Northwest Desert Anticlines	Oil	1,114	15,198	16,312	2,819	18,017	19,131	85
92	39100301	Malita	Oil	0	7,526	7,526	11,346	18,872	18,872	40
93	20480101	Bou Dabbous-Tertiary Structural/Stratigraphic	Oil	37	15,472	15,509	2,746	18,218	18,256	85
94	60360102	Salt-Structured Deep-Water Sandstones	Oil	0	0	0	17,673	17,673	17,673	0
95	52430301	Exshaw-Rundle Gas	Gas	10,268	5,145	15,413	2,197	7,342	17,610	88
96	10500101	Kolguyev Terrace	Gas	0	3	3	17,554	17,556	17,556	0
97	60960101	Central	Oil	111	14,961	15,071	2,180	17,141	17,251	87
98	31270101	Tertiary Lacustrine	Oil	2,955	8,898	11,853	4,639	13,537	16,492	72
99	39480201	Locker-Mungaroo/Barrow	Gas	27	8,075	8,102	8,331	16,406	16,432	49
100	20160101	Fahud-Huqf Combined Structural	Oil	536	7,097	7,633	8,206	15,303	15,839	48
101	39300101	Gippsland	Oil	3,501	6,274	9,775	5,658	11,932	15,433	63
102	60980103	Maturin Sub-Basin	Oil	5,288	6,791	12,078	3,258	10,049	15,337	79
103	31420101	Southeastern Fold Belt	Gas	5,368	5,313	10,681	4,488	9,801	15,169	70
104	72030201	Gabon Suprasalt	Oil	203	1,632	1,835	13,230	14,862	15,065	12
105	11090302	Onshore Stavropol-Prikumsk	Oil	9,670	3,829	13,499	1,163	4,992	14,662	92
106	20230202	Basinal Oil and Gas	Oil	0	0	0	14,201	14,201	14,201	0
107	39100201	Petrel	Gas	0	5,730	5,730	8,328	14,058	14,058	41
108	38240201	Ardjuna	Oil	794	6,529	7,322	6,579	13,108	13,901	53
109	40470101	Foreland Basin	Gas	5,455	5,205	10,660	2,321	7,525	12,980	82

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
110	10160103	East and Southeast Margins Subsalt	Oil	0	5,364	5,364	6,781	12,145	12,145	44
111	40480101	Greater Hungarian Plain Basins	Oil	5,436	4,221	9,657	2,395	6,616	12,052	80
112	71830101	Coastal Plain and Offshore	Oil	46	1,903	1,949	10,071	11,974	12,020	16
113	61070101	Inner Forearc Deformation Belt	Oil	0	0	0	11,957	11,957	11,957	0
114	52430201	Leduc Gas	Gas	4,964	4,257	9,221	2,442	6,699	11,663	79
115	10160106	Suprasalt	Oil	131	1,496	1,628	9,934	11,430	11,562	14
116	11090102	Terek-Sunzha Subsalt Jurassic	Gas	0	0	0	11,464	11,464	11,464	0
117	60630101	Malvinas Extensional Structures	Oil	0	75	75	11,327	11,402	11,402	1
118	20540101	Tanezzuft-Oued Mya Structural/Stratigraphic	Oil	68	8,905	8,973	2,341	11,246	11,314	79
119	52150101	Jeanne d'Arc	Oil	0	2,406	2,406	8,893	11,298	11,298	21
120	31540102	Kuche (Northern) Foldbelt	Gas	2	65	66	10,712	10,777	10,778	1
121	11740201	Pre-Upper Jurassic	Oil	443	4,738	5,180	5,516	10,254	10,697	48
122	10150102	Lower Volga	Oil	6,618	3,314	9,932	558	3,873	10,490	95
123	20430101	Southeast Sirte Clastics	Oil	1,400	8,187	9,587	808	8,995	10,395	92
124	80430102	Eocene-Miocene Deltaics	Oil	1,342	5,324	6,665	3,645	8,969	10,310	65
125	10150103	Sub-Domanik Devonian Clastics	Oil	4,720	4,728	9,448	695	5,423	10,144	93
126	20710101	Gulf of Suez Block-Fault Fairway	Oil	835	5,125	5,960	4,172	9,296	10,132	59
127	37010102	Brunei-Sabah Turbidites	Oil	20	2,425	2,445	7,249	9,674	9,694	25
128	73030101	Offshore	Gas	0	6,015	6,015	3,603	9,618	9,618	63
129	10090102	Devonian Synrift	Oil	0	0	0	9,317	9,317	9,317	0
130	60600101	North Falklands Basin	Oil	0	0	0	8,871	8,871	8,871	0
131	20230201	Platform Horst/Graben-Related Oil	Oil	0	100	100	8,741	8,841	8,841	1
132	60340103	Abrolhos Sub-Volcanic Structures	Oil	0	0	0	8,545	8,545	8,545	0
133	60290102	Late Cretaceous-Tertiary Deep-Water Sandstones	Oil	66	169	236	8,166	8,336	8,402	3
134	31540103	Southwest Foldbelt	Oil	192	368	560	7,773	8,141	8,333	7
135	11090201	South Mangyshlak (Entire)	Oil	28	5,679	5,707	2,262	7,941	7,969	72
136	38080101	Pematang/Sihapas Siliciclastics	Oil	910	2,956	3,866	4,078	7,034	7,944	49
137	40470201	Deformed Belt	Oil	3,360	2,033	5,393	2,345	4,378	7,738	70
138	80340101	Sylhet-Kopili/Barail-Tipam Composite	Oil	2,039	4,495	6,534	1,178	5,673	7,712	85
139	60600201	South Falklands Basin	Oil	0	0	0	7,710	7,710	7,710	0
140	31270102	Pre-Tertiary Buried Hills	Oil	32	3,787	3,819	3,875	7,662	7,693	50
141	60810101	Cretaceous-Paleogene Basin	Oil	1,951	941	2,892	4,795	5,736	7,687	38
142	40250102	Moray Firth	Oil	629	5,223	5,852	1,752	6,975	7,604	77
143	60450102	Foreland Basins	Oil	115	53	168	7,375	7,429	7,543	2
144	52430402	Combined Triassic/Jurassic Oil and Gas	Oil	3,119	3,497	6,615	877	4,374	7,493	88
145	11080101	Tertiary Foredeep	Oil	945	2,999	3,944	3,139	6,137	7,083	56
146	52430101	Keg River Gas	Gas	4,019	1,793	5,812	868	2,661	6,680	87
147	53050103	Tamabra-Like Debris-Flow-Breccia Limestone and Overlying Strata	Oil	335	195	530	6,147	6,342	6,677	8
148	52430302	Exshaw-Rundle Oil and Gas	Oil	4,583	1,572	6,155	466	2,038	6,621	93
149	60210102	Cretaceous Carbonates	Oil	0	0	0	6,595	6,595	6,595	0
150	52430602	Second White Specks-Cardium Oil and Gas	Oil	3,298	2,151	5,449	840	2,991	6,289	87
151	20580201	Tanezzuft-Ahnet Structural/Stratigraphic	Gas	0	3,117	3,117	2,973	6,090	6,090	51



Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
152	20710103	Southern Gulf of Suez	Oil	4	30	35	5,974	6,004	6,008	1
153	60580101	San Jorge Extensional Structures	Oil	1,435	1,534	2,968	3,038	4,572	6,006	49
154	38220102	Mergui	Gas	0	0	0	6,005	6,005	6,005	0
155	52430202	Leduc Oil and Gas	Oil	4,086	1,050	5,136	782	1,832	5,918	87
156	20710202	Red Sea Salt Basin	Oil	0	0	0	5,875	5,875	5,875	0
157	10160102	North and West Margins Subsalt Barrier Reefs	Oil	8	1,262	1,270	4,271	5,533	5,540	23
158	40610201	Romania Flysch Zone	Oil	530	2,692	3,222	2,177	4,869	5,399	60
159	20580101	Tanezzuft-Timimoun Structural/Stratigraphic	Gas	0	4,200	4,200	1,128	5,328	5,328	79
160	52430401	Combined Triassic/Jurassic Gas	Gas	1,465	2,500	3,965	1,289	3,789	5,254	75
161	40480201	Zala-Drava-Sava Basins	Oil	1,082	2,847	3,929	1,151	3,998	5,080	77
162	20540201	Tanezzuft-Melrhir Structural/Stratigraphic	Oil	0	125	125	4,887	5,012	5,012	2
163	53050104	Tamabra-Like Debris-Flow-Breccia Limestone of the Golden Lane	Oil	1,862	1,961	3,824	1,113	3,074	4,937	77
164	60900103	Eastern	Gas	0	2,000	2,000	2,735	4,735	4,735	42
165	11090303	Central Caspian Offshore	Oil	0	0	0	4,572	4,572	4,572	0
166	72030101	Gabon Subsalt	Oil	62	780	843	3,674	4,455	4,517	19
167	60550102	Neuquen Foothills Structure	Oil	159	539	697	3,764	4,303	4,462	16
168	37020102	Balingian	Oil	0	2,084	2,084	2,217	4,301	4,301	48
169	60960102	Peripheral	Oil	28	214	242	4,036	4,251	4,279	6
170	60550103	Dorsal de Neuquen Structure	Oil	2,184	1,122	3,307	927	2,049	4,234	78
171	20430103	Offshore Sirte Hypothetical	Oil	0	0	0	4,199	4,199	4,199	0
172	10150201	Permian Reefs/Thrust Folds	Gas	571	2,067	2,638	1,547	3,615	4,185	63
173	31420401	Leshan-Longnusi Paleohigh	Gas	491	859	1,350	2,763	3,622	4,113	33
174	60350103	Salt Dome Province Tertiary Sandstones	Oil	0	0	0	4,031	4,031	4,031	0
175	80420102	Indus Fan	Gas	0	0	0	3,919	3,919	3,919	0
176	11090301	Offshore Prikumsk Zone	Oil	0	0	0	3,910	3,910	3,910	0
177	60590102	Andean Fold Belt Structures	Oil	11	57	69	3,655	3,712	3,723	2
178	11500201	Jurassic-Tertiary	Oil	0	1,450	1,450	2,180	3,630	3,630	40
179	20480201	Jurassic-Cretaceous Structural/Stratigraphic	Oil	6	1,295	1,301	2,280	3,575	3,581	36
180	20160201	Natih-Fiqa Structural/Stratigraphic	Oil	616	2,485	3,100	363	2,848	3,463	90
181	31440201	Structural Traps	Gas	0	145	145	3,212	3,357	3,357	4
182	60990102	Southwest Maracaibo Basin Fold Belt	Oil	918	865	1,783	1,491	2,356	3,275	54
183	60450103	Foreland Central Chaco High	Oil	0	0	0	3,211	3,211	3,211	0
184	80480101	Central Burma Basin	Oil	389	591	981	2,008	2,600	2,989	33
185	11120105	Iran Onshore/Nearshore	Oil	0	0	0	2,960	2,960	2,960	0
186	60900101	Northern	Oil	2,186	605	2,791	119	724	2,910	96
187	40610101	Moesian Platform	Oil	1,546	671	2,217	561	1,232	2,778	80
188	31440101	Subtle Traps	Oil	3	909	913	1,789	2,698	2,701	34
189	39100202	Vulcan Graben	Gas	0	0	0	2,668	2,668	2,668	0
190	31150101	Upper Paleozoic/Lower Mesozoic Nonmarine Coarse Clastics	Oil	491	1,757	2,248	346	2,104	2,594	87
191	53050105	Tamaulipas-Like Basinal Limestone and Tertiary Strata Without Underlying Evaporites	Oil	293	1,443	1,736	804	2,247	2,540	68

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
192	80260101	Kohat-Potwar Intrathrust Basin	Oil	807	1,174	1,981	551	1,726	2,533	78
193	11080103	Subsalt Jurassic	Gas	84	81	165	2,219	2,300	2,384	7
194	60410101	Hollin-Napo	Oil	661	955	1,616	755	1,711	2,372	68
195	52430601	Second White Specks-Cardium Gas	Gas	974	1,097	2,071	285	1,382	2,356	88
196	40610202	Romania Ploiesti Zone	Oil	1,050	776	1,826	441	1,217	2,267	81
197	60350102	Cretaceous Carbonates	Oil	79	403	482	1,743	2,146	2,225	22
198	52430102	Keg River Oil and Gas	Oil	570	691	1,261	907	1,599	2,169	58
199	20580301	Tanezzuft-Sbaa Structural/Stratigraphic	Oil	0	1,490	1,490	645	2,134	2,134	70
200	40600201	Thermal Triassic	Oil	154	257	412	1,698	1,955	2,109	20
201	31420102	Northwestern Depression/Foldbelt	Gas	302	38	340	1,650	1,687	1,990	17
202	37030102	North Malay Lacustrine	Oil	0	175	175	1,762	1,937	1,937	9
203	53050101	El Abra-Like Reef and Backreef Limestone	Oil	209	1,206	1,415	507	1,713	1,922	74
204	11090103	Foreland Slope and Foredeep	Oil	0	0	0	1,804	1,804	1,804	0
205	53050107	Tamabra-Like Debris-Flow-Breccia Limestone North of Campeche	Oil	0	0	0	1,735	1,735	1,735	0
206	72030401	Cuanza-Namibe	Oil	46	13	59	1,558	1,571	1,617	4
207	38240101	Sunda/Asri	Oil	233	381	614	874	1,255	1,488	41
208	31440102	Anticlinal	Oil	0	685	685	705	1,390	1,390	49
209	60290101	Western Pre-Aptian Reservoirs	Oil	282	890	1,171	168	1,057	1,339	87
210	60580102	San Bernardo Fold Belt Structures	Oil	232	365	597	735	1,100	1,332	45
211	31150201	Jurassic/Tertiary Fluvial and Lacustrine Sandstone	Oil	10	332	342	950	1,281	1,292	26
212	31420402	Lower Paleozoic of Southeastern Fold Belt	Gas	0	0	0	1,273	1,273	1,273	0
213	39100101	Barnett	Oil	0	48	48	1,151	1,199	1,199	4
214	11500101	Mesozoic Sandstone Reservoirs	Oil	0	943	943	89	1,033	1,033	91
215	52440401	Lodgepole Oil	Oil	728	166	893	63	228	956	93
216	70130101	Coastal Plain and Offshore	Oil	4	45	49	856	901	905	5
217	60410201	Ene	Oil	0	0	0	841	841	841	0
218	60210103	Late Cretaceous-Tertiary Nearshore Sandstones	Oil	0	0	0	839	839	839	0
219	60830101	Neogene Pull-Apart Basin	Oil	0	340	340	471	811	811	42
220	61170101	North Cuba Fold and Thrust Belt	Oil	20	77	96	592	668	688	14
221	40470301	Paleozoic Reservoirs	Oil	0	233	233	383	616	616	38
222	20580601	Tanezzuft-Bechar/Abadla Structural/Stratigraphic	Gas	0	0	0	441	441	441	0
223	60900104	La Luna and Older	Oil	2	2	5	399	401	403	1
224	40480301	Danube Basin	Gas	7	240	247	146	386	393	63
225	60830201	Cretaceous-Paleogene Santa Elena Block	Oil	148	10	158	224	233	382	41
226	40480401	Transcarpathian Basin	Gas	0	261	261	112	373	373	70
227	40480601	Hungarian Paleogene Basin	Oil	15	1	16	339	340	355	4
228	20580401	Tanezzuft-Mouydir Structural/Stratigraphic	Gas	0	0	0	292	292	292	0
229	31420201	Jurassic Lacustrine	Oil	50	90	140	137	227	278	51
230	60900102	Southern	Oil	121	85	206	40	125	246	84
231	60340101	Espirito Santo Shelf	Oil	42	130	172	65	195	237	73
232	40360101	Southern Permian Basin-U.K. Onshore	Oil	18	81	99	31	112	130	76
233	20430104	Southeast Sirte Hypothetical	Oil	0	0	0	60	60	60	0

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
234	20710102	Gulf of Suez Qaa Plain	Oil	0	0	0	46	46	46	0
235	31280101	Jurassic/Triassic Fluvial and Lacustrine Sandstone	Oil	13	7	20	20	27	40	50
236	52440201	Brightholme Oil	Oil	8	3	11	5	8	16	67
237	52440101	Yeoman Oil	Oil	0	0	0	4	4	4	3
238	52440301	Bakken Sandstone	Oil	0	0	0	3	3	4	9
NA	10080101	Northwest Izhma-Pechora Depression	NA	NA	NA	NA	120	NA	NA	NA
NA	10090103	Continuous Basin-Centered Gas Accumulation	NA	0	0	0	NA	NA	NA	NA
NA	10150104	Self-Sourced Domanik	NA	0	0	0	NA	NA	NA	NA
NA	10160101	North and West Margins Subsalt Pinnacle Reefs	NA	NA	NA	NA	30,544	NA	NA	NA
NA	10160105	Basin Center Subsalt	NA	0	0	0	NA	NA	NA	NA
NA	11500301	Upper Paleozoic Carbonates	NA	NA	NA	NA	8,500	NA	NA	NA
NA	11740102	Self-Sourced Bazhenov Fractured Reservoirs	NA	0	0	0	NA	NA	NA	NA
NA	20190302	Paleozoic Reservoirs	NA	NA	NA	NA	323,892	NA	NA	NA
NA	31150301	Continuous-Type (Basin-Centered) Gas	NA	0	0	0	NA	NA	NA	NA
NA	31270201	Coal-Sourced Gas	NA	0	0	0	NA	NA	NA	NA
NA	31280201	Basin Centered Gas (Continuous) in Ordovician Carbonate and Permian Sandstone	NA	0	5,590	5,590	NA	NA	NA	NA
NA	31280202	Carboniferous and Permian Coalbed Methane (Continuous)	NA	0	0	0	NA	NA	NA	NA
NA	31420103	Continuous Gas in Central Uplift/Northwestern Depression	NA	38	13	51	NA	NA	NA	NA
NA	31420301	Continuous Gas in Northwestern Depression/Central Uplift	NA	NA	NA	NA	NA	NA	NA	NA
NA	38170103	Kutei Basin Fold and Thrust Belt	NA	NA	NA	NA	3,313	NA	NA	NA
NA	38240301	Biogenic Gas	NA	0	119	119	NA	NA	NA	NA
NA	38240401	Billiton Basin Hypothetical	NA	0	0	0	NA	NA	NA	NA
NA	40480501	Central Carpathian Paleogene Basin	NA	NA	NA	NA	NA	NA	NA	NA
NA	40570102	Transylvanian Subsalt	NA	0	0	0	NA	NA	NA	NA
NA	52150201	Graben Systems Exclusive of Jeanne d'Arc	NA	0	4,224	4,224	NA	NA	NA	NA
NA	52430502	Mannville Continuous (Basin-Center) Gas	NA	2,942	3,335	6,278	NA	NA	NA	NA
NA	52430603	Upper Cretaceous Eastern Shallow Gas	NA	11,738	7,191	18,929	NA	NA	NA	NA
NA	60220101	Amazon Delta and Submarine Fan	NA	NA	NA	NA	29,840	NA	NA	NA
NA	60220102	Offshore Gas Hydrates	NA	0	0	0	NA	NA	NA	NA
NA	60340102	Late Cretaceous-Tertiary Slide Blocks and Turbidites	NA	NA	NA	NA	25,677	NA	NA	NA
NA	60370102	Offshore Gas Hydrates	NA	0	0	0	NA	NA	NA	NA
NA	60580201	Hypothetical Basin-Centered Gas	NA	0	0	0	NA	NA	NA	NA
NA	60980104	Orinoco Heavy Oil and Tar Belt	NA	3	257	260	NA	NA	NA	NA
NA	60990103	Basin-Centered Gas	NA	0	0	0	NA	NA	NA	NA
NA	61070102	Barbados Accretionary Prism	NA	16	7	22	NA	NA	NA	NA
NA	80470101	Coalbed Gas	NA	0	0	0	NA	NA	NA	NA
NA	80470201	Western Shelf and Slope	NA	NA	NA	NA	4,613	NA	NA	NA

**Table AR-2e. Assessment units ranked by future oil volume.**

[MMBO, million barrels of oil. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative oil is the reported volume of oil that has been produced. Remaining oil is the calculated remaining reserves; the difference between known and cumulative oil. Known oil is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered oil is the mean volume estimated in World Petroleum Assessment 2000. Future oil is the remaining oil plus estimated mean undiscovered oil. Oil endowment is the known oil plus estimated mean undiscovered oil volumes. Discovery maturity is the percentage of oil discovered (known oil) with respect to oil endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. Negative values result from inconsistent reporting of cumulative and known volumes. Values in parentheses ( ) are questionable data. NA means not applicable; it is shown for all values except mean undiscovered oil if only one field is present in the assessment unit; and for major commodity, mean undiscovered volume, future volume, endowment, and discovery maturity of assessment units not assessed.]

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
1	20300101	Cretaceous Reservoirs	Oil	53,182	209,735	262,917	74,911	284,646	337,828	78
2	20210201	Horst-Block Anticlinal Oil	Oil	53,906	101,239	155,145	26,715	127,954	181,860	85
3	11740101	Upper Jurassic-Cretaceous Sandstones	Oil	45,819	72,153	117,972	42,947	115,100	160,919	73
4	20300102	Tertiary Reservoirs	Oil	47,285	62,025	109,310	19,605	81,630	128,914	85
5	20210202	Salt-Involved Structural Oil	Oil	9,948	33,902	43,850	14,989	48,891	58,839	75
6	52000101	Northeast Greenland Shelf Rift Systems	Oil	0	0	0	47,148	47,148	47,148	0
7	20190102	Cretaceous Reservoirs in South Gulf Suprasalt Structural	Oil	10,858	41,236	52,094	3,764	45,000	55,858	93
8	71920101	Agbada Reservoirs	Oil	16,598	17,925	34,522	21,925	39,850	56,447	61
9	53050102	Tamabra-Like Debris-Flow-Breccia Limestone Overlying Evaporites	Oil	14,366	18,699	33,065	9,857	28,556	42,922	77
10	20210101	Central Arch Horst-Block Anticlinal Oil and Gas	Oil	84	6,142	6,226	19,190	25,331	25,416	24
11	10160104	South Margin Subsalt	Oil	0	6,245	6,245	15,467	21,712	21,712	29
12	60990101	Main Maracaibo Basin	Oil	34,861	13,350	48,211	7,842	21,192	56,053	86
13	20190101	Cretaceous Reservoirs in Northwest Desert Anticlines	Oil	2,594	16,386	18,981	4,702	21,088	23,683	80
14	40250101	Viking Graben	Oil	13,038	13,643	26,681	7,412	21,055	34,093	78
15	60350101	Late Cretaceous-Tertiary Turbidites	Oil	1,508	8,122	9,630	10,869	18,991	20,499	47
16	72030302	Central Congo Turbidites	Oil	0	205	205	18,522	18,727	18,727	1
17	11740201	Pre-Upper Jurassic	Oil	645	11,111	11,756	7,474	18,584	19,230	61
18	71920102	Akata Reservoirs	Oil	0	0	0	18,562	18,562	18,562	0
19	20430101	Southeast Sirte Clastics	Oil	5,274	15,622	20,895	2,380	18,002	23,275	90
20	10150101	Supra-Domanik Carbonates/Clastics	Oil	19,973	14,931	34,904	1,676	16,607	36,580	95
21	20190202	Jurassic Reservoirs in South Gulf Suprasalt/Qatar Arch Structural	Oil	5,688	12,548	18,236	3,845	16,394	22,081	83
22	10080102	Main Basin Platform	Oil	2,543	10,442	12,985	4,938	15,379	17,922	72
23	60980101	East Venezuela Fold and Thrust Belt	Oil	3,253	9,978	13,231	4,928	14,905	18,159	73
24	60360101	Santos Shelf	Oil	6	279	285	13,723	14,002	14,008	2

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25	31270101	Tertiary Lacustrine	Oil	8,944	10,993	19,937	2,268	13,261	22,205	90
26	60210101	Late Cretaceous-Tertiary Turbidites	Oil	0	0	0	12,745	12,745	12,745	0
27	11740301	Northern West Siberian Onshore Gas	Gas	66	10,119	10,185	1,304	11,424	11,489	89
28	20190201	Jurassic Reservoirs in Northwest Desert Anticlines	Oil	0	777	777	10,633	11,410	11,410	7
29	20430102	Central Sirte Carbonates	Oil	8,712	7,465	16,177	3,840	11,305	20,017	81
30	72030301	Central Congo Delta and Carbonate Platform	Oil	3,693	5,847	9,540	4,677	10,523	14,216	67
31	40250103	Central Graben	Oil	7,181	5,588	12,769	4,740	10,328	17,509	73
32	53050106	Tamaulipas-Like Basinal Limestone and Tertiary Strata Overlying Evaporites	Oil	1,929	2,339	4,268	7,823	10,163	12,092	35
33	60360102	Salt-Structured Deep-Water Sandstones	Oil	0	0	0	9,486	9,486	9,486	0
34	40170101	Halten Terrace-Trondelag Platform	Oil	76	2,585	2,660	6,204	8,788	8,864	30
35	11120101	Apsheron-Pribalkhan Zone	Oil	10,581	4,512	15,093	3,091	7,602	18,183	83
36	20540301	Tanezzuft-Ghadames Structural/Stratigraphic	Oil	1,629	2,909	4,538	4,461	7,370	8,999	50
37	60410101	Hollin-Napo	Oil	2,889	3,712	6,601	3,023	6,735	9,625	69
38	11120104	Central Offshore	Oil	0	0	0	6,410	6,410	6,410	0
39	10150103	Sub-Domanik Devonian Clastics	Oil	20,807	5,632	26,439	682	6,314	27,121	97
40	31150101	Upper Paleozoic/Lower Mesozoic Nonmarine Coarse Clastics	Oil	937	5,687	6,624	467	6,154	7,091	93
41	31540101	Tarim Basin Excluding Marginal Foldbelts	Oil	21	634	655	5,364	5,998	6,019	11
42	72030201	Gabon Suprasalt	Oil	1,278	836	2,114	5,031	5,867	7,145	30
43	20540101	Tanezzuft-Oued Mya Structural/Stratigraphic	Oil	5,872	4,971	10,843	830	5,801	11,673	93
44	38080101	Pematang/Sihapas Siliciclastics	Oil	8,349	4,868	13,217	899	5,768	14,117	94
45	20710101	Gulf of Suez Block-Fault Fairway	Oil	6,310	3,444	9,754	2,171	5,615	11,925	82
46	80430101	Eocene-Miocene Bombay Shelf	Oil	2,337	3,920	6,257	1,612	5,531	7,868	80
47	31270102	Pre-Tertiary Buried Hills	Oil	1,471	3,145	4,616	2,144	5,289	6,760	68
48	20230201	Platform Horst/Graben-Related Oil	Oil	94	379	474	4,682	5,062	5,156	9
49	11120103	Gograndag-Okarem Zone and Adjacent Shelf	Oil	64	242	306	4,764	5,005	5,070	6
50	37010101	Brunei-Sabah Deltaics	Oil	3,872	2,780	6,652	2,137	4,917	8,789	76
51	11090101	Foldbelt-Foothills	Oil	752	2,738	3,490	2,094	4,832	5,584	62
52	10160106	Suprasalt	Oil	690	1,140	1,830	3,497	4,637	5,327	34
53	60350103	Salt Dome Province Tertiary Sandstones	Oil	0	0	0	4,493	4,493	4,493	0
54	60960101	Central	Oil	152	2,942	3,094	1,312	4,254	4,406	70
55	60980202	Orinoco Delta and Offshore	Oil	0	0	0	4,228	4,228	4,228	0
56	20560101	Tanezzuft-Illizi Structural/Stratigraphic	Oil	2,286	1,384	3,670	2,814	4,198	6,484	57
57	20040101	Ma'Rib-Al Jawf/Shabwah/Masila	Oil	649	1,284	1,933	2,740	4,025	4,673	41
58	13220101	Onshore and Offshore Northeastern Shelf	Oil	754	1,428	2,182	2,582	4,010	4,764	46
59	60980103	Maturin Sub-Basin	Oil	7,468	1,978	9,446	1,919	3,897	11,365	83
60	12100101	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	Gas	1	2,005	2,006	1,611	3,616	3,617	55
61	60600101	North Falklands Basin	Oil	0	0	0	3,603	3,603	3,603	0
62	60960102	Peripheral	Oil	1,027	1,282	2,309	2,319	3,601	4,627	50
63	20230101	Horst/Graben-Related Oil and Gas	Oil	269	944	1,213	2,632	3,577	3,845	32
64	38170102	Kutei Basin Turbidites	Oil	0	0	0	3,569	3,569	3,569	0

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65	11740302	South Kara Sea Offshore	Gas	0	0	0	3,510	3,510	3,510	0
66	11090201	South Mangyshlak (Entire)	Oil	2,406	2,835	5,241	651	3,486	5,893	89
67	52150101	Jeanne d'Arc	Oil	0	1,582	1,582	1,796	3,378	3,378	47
68	10160103	East and Southeast Margins Subsalt	Oil	131	1,086	1,217	2,196	3,283	3,414	36
69	40250102	Moray Firth	Oil	2,248	2,196	4,444	947	3,143	5,391	82
70	60370101	Pelotas Platform and Basin	Oil	0	0	0	2,938	2,938	2,938	0
71	39480101	Dingo-Mungaroo/Barrow	Gas	489	660	1,149	2,249	2,909	3,398	34
72	20160101	Fahud-Huqf Combined Structural	Oil	1,259	1,426	2,685	1,304	2,731	3,990	67
73	11500101	Mesozoic Sandstone Reservoirs	Oil	459	1,827	2,286	814	2,641	3,100	74
74	37030101	South Malay Lacustrine	Oil	1,459	1,557	3,017	1,003	2,560	4,019	75
75	31440102	Anticlinal	Oil	12,228	2,192	14,420	291	2,483	14,711	98
76	20480101	Bou Dabbous-Tertiary Structural/Stratigraphic	Oil	481	1,633	2,114	667	2,300	2,782	76
77	11120102	Lower Kura Depression and Adjacent Shelf	Oil	1,035	1,004	2,040	1,275	2,279	3,315	62
78	20710201	Red Sea Coastal Block Faults	Gas	22	133	155	2,136	2,269	2,291	7
79	60600201	South Falklands Basin	Oil	0	0	0	2,229	2,229	2,229	0
80	60210102	Cretaceous Carbonates	Oil	0	0	0	2,200	2,200	2,200	0
81	20140101	Ghaba-Makarem Combined Structural	Oil	715	1,313	2,028	743	2,056	2,771	73
82	60810101	Cretaceous-Paleogene Basin	Oil	1,346	326	1,672	1,711	2,038	3,383	49
83	80340101	Sylhet-Kopili/Barail-Tipam Composite	Oil	911	1,625	2,536	399	2,024	2,935	86
84	53050104	Tamabra-Like Debris-Flow-Breccia Limestone of the Golden Lane	Oil	1,917	1,392	3,308	557	1,948	3,865	86
85	38170101	Kutei Basin Deltaics	Oil	2,195	684	2,879	1,258	1,942	4,137	70
86	20230202	Basinal Oil and Gas	Oil	0	0	0	1,886	1,886	1,886	0
87	20540201	Tanezzuft-Melrhir Structural/Stratigraphic	Oil	0	6	6	1,875	1,881	1,881	0
88	52430202	Leduc Oil and Gas	Oil	8,113	1,304	9,417	501	1,805	9,918	95
89	72030101	Gabon Subsalt	Oil	708	1,044	1,752	727	1,772	2,480	71
90	10090101	Carboniferous-Lower Permian Clastics	Gas	110	1,501	1,611	251	1,752	1,862	87
91	31440101	Subtle Traps	Oil	171	979	1,150	735	1,714	1,885	61
92	80430102	Eocene-Miocene Deltaics	Oil	1,038	1,146	2,183	479	1,625	2,662	82
93	61070101	Inner Forearc Deformation Belt	Oil	0	0	0	1,536	1,536	1,536	0
94	39100301	Malita	Oil	123	378	502	1,146	1,524	1,648	30
95	60290102	Late Cretaceous-Tertiary Deep-Water Sandstones	Oil	55	67	122	1,457	1,523	1,579	8
96	40610201	Romania Flysch Zone	Oil	1,039	909	1,948	564	1,473	2,512	78
97	60550101	Neuquen Extensional Structures	Oil	1,111	605	1,716	862	1,467	2,578	67
98	37010102	Brunei-Sabah Turbidites	Oil	81	165	246	1,252	1,417	1,498	16
99	38240201	Ardjuna	Oil	727	1,181	1,908	195	1,377	2,104	91
100	60450102	Foreland Basins	Oil	0	2	2	1,254	1,256	1,256	0
101	12070101	Yenisey Foldbelt Riphean-Craton Margin Riphean	Oil	0	34	34	1,213	1,246	1,246	3
102	71830101	Coastal Plain and Offshore	Oil	74	162	236	1,004	1,166	1,240	19
103	60580101	San Jorge Extensional Structures	Oil	2,330	776	3,106	347	1,123	3,453	90
104	60590101	Magallanes Extensional Structures	Gas	595	620	1,216	494	1,114	1,709	71
105	60350102	Cretaceous Carbonates	Oil	261	166	426	932	1,097	1,358	31
106	39300101	Gippsland	Oil	3,077	784	3,860	310	1,093	4,170	93

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107	39130101	Late Jurassic/Early Cretaceous-Mesozoic	Gas	19	27	46	1,055	1,083	1,101	4
108	60980201	Trinidad Basins	Oil	2,780	667	3,447	416	1,083	3,863	89
109	38280101	South Sumatra	Oil	1,842	587	2,429	469	1,055	2,898	84
110	60630101	Malvinas Extensional Structures	Oil	0	10	10	1,031	1,041	1,041	1
111	37020102	Balingian	Oil	168	460	628	529	989	1,157	54
112	20160201	Natih-Fiqa Structural/Stratigraphic	Oil	1,299	553	1,852	371	925	2,224	83
113	38240101	Sunda/Asri	Oil	828	431	1,259	462	894	1,722	73
114	10150102	Lower Volga	Oil	1,803	726	2,529	148	874	2,677	94
115	53050107	Tamabra-Like Debris-Flow-Breccia Limestone North of Campeche	Oil	0	0	0	871	871	871	0
116	53050103	Tamabra-Like Debris-Flow-Breccia Limestone and Overlying Strata	Oil	26	54	80	807	860	886	9
117	10090102	Devonian Synrift	Oil	0	0	0	848	848	848	0
118	72030401	Cuanza-Namibe	Oil	86	20	107	790	810	897	12
119	11090301	Offshore Prikumsk Zone	Oil	0	0	0	789	789	789	0
120	10160102	North and West Margins Subsalt Barrier Reefs	Oil	0	134	134	637	771	771	17
121	31280101	Jurassic/Triassic Fluvial and Lacustrine Sandstone	Oil	81	602	683	138	740	821	83
122	61170101	North Cuba Fold and Thrust Belt	Oil	65	232	297	494	726	790	38
123	40610101	Moesian Platform	Oil	1,251	542	1,793	171	713	1,963	91
124	60450103	Foreland Central Chaco High	Oil	0	0	0	711	711	711	0
125	80480101	Central Burma Basin	Oil	494	142	637	516	658	1,152	55
126	40610202	Romania Ploiesti Zone	Oil	1,793	374	2,167	278	652	2,445	89
127	52440401	Lodgepole Oil	Oil	2,239	539	2,778	111	650	2,889	96
128	53050105	Tamaulipas-Like Basinal Limestone and Tertiary Strata Without Underlying Evaporites	Oil	1,354	273	1,627	366	638	1,993	82
129	37030201	South Malay Coaly	Gas	58	533	592	101	634	693	85
130	40470201	Deformed Belt	Oil	640	283	923	344	627	1,267	73
131	10500101	Kolguyev Terrace	Gas	0	51	51	563	614	614	8
132	40600201	Thermal Triassic	Oil	78	254	332	360	614	692	48
133	11540104	Murgab Depression Subsalt	Gas	31	485	516	113	597	628	82
134	20190103	Mesozoic/Tertiary Foredeep Fold and Thrust	Gas	92	64	156	513	577	669	23
135	40480101	Greater Hungarian Plain Basins	Oil	731	358	1,089	196	555	1,285	85
136	52430302	Exshaw-Rundle Oil and Gas	Oil	1,122	415	1,537	126	541	1,663	92
137	52430602	Second White Specks-Cardium Oil and Gas	Oil	1,929	494	2,423	36	529	2,459	99
138	60900102	Southern	Oil	348	333	681	188	521	869	78
139	31540103	Southwest Foldbelt	Oil	17	24	41	495	519	536	8
140	20190301	Khuff Carbonates in Salt Structures	Gas	0	500	500	0	500	500	100
141	60990102	Southwest Maracaibo Basin Fold Belt	Oil	720	141	861	341	482	1,202	72
142	60550102	Neuquen Foothills Structure	Oil	159	138	297	334	472	631	47
143	60340103	Abrolhos Sub-Volcanic Structures	Oil	0	0	0	468	468	468	0
144	20480201	Jurassic-Cretaceous Structural/Stratigraphic	Oil	39	64	103	403	467	506	20
145	11090103	Foreland Slope and Foredeep	Oil	0	0	0	452	452	452	0
146	20580301	Tanezzuft-Sbaa Structural/Stratigraphic	Oil	0	284	284	162	446	446	64

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147	40360102	Southern Permian Basin-Europe Onshore	Gas	2,029	372	2,400	74	446	2,474	97
148	20710202	Red Sea Salt Basin	Oil	0	0	0	443	443	443	0
149	60980102	Guarico Sub-Basin	Gas	268	54	322	385	439	707	46
150	40680101	Subsalt	Gas	0	0	0	388	388	388	0
151	20430103	Offshore Sirte Hypothetical	Oil	0	0	0	382	382	382	0
152	40480201	Zala-Drava-Sava Basins	Oil	836	265	1,101	114	379	1,215	91
153	52430402	Combined Triassic/Jurassic Oil and Gas	Oil	965	277	1,242	96	373	1,338	93
154	60900101	Northern	Oil	1,556	175	1,730	191	366	1,921	90
155	20710103	Southern Gulf of Suez	Oil	41	15	57	344	359	400	14
156	60210103	Late Cretaceous-Tertiary Nearshore Sandstones	Oil	17	46	63	301	347	364	17
157	40170102	Mid-Norway Continental Margin	Gas	0	0	0	334	334	334	0
158	11090303	Central Caspian Offshore	Oil	0	0	0	331	331	331	0
159	31150201	Jurassic/Tertiary Fluvial and Lacustrine Sandstone	Oil	16	193	210	96	289	306	69
160	38220101	North Sumatra	Gas	496	178	674	112	289	786	86
161	11090102	Terek-Sunzha Subsalt Jurassic	Gas	0	0	0	283	283	283	0
162	60580102	San Bernardo Fold Belt Structures	Oil	115	124	240	151	275	390	61
163	80260101	Kohat-Potwar Intrathrust Basin	Oil	204	121	324	145	266	469	69
164	52430102	Keg River Oil and Gas	Oil	835	176	1,011	84	260	1,095	92
165	10500102	South Barents and Ludlov Saddle	Gas	0	0	0	257	257	257	0
166	80480102	Irrawaddy-Andaman	Gas	34	46	79	209	254	288	28
167	20430104	Southeast Sirte Hypothetical	Oil	0	0	0	253	253	253	0
168	60830201	Cretaceous-Paleogene Santa Elena Block	Oil	118	53	171	200	252	370	46
169	60450101	Sub-Andean Fold and Thrust Belt	Gas	257	62	318	181	242	499	64
170	40360103	Southern Permian Basin-Offshore	Gas	232	176	408	62	238	470	87
171	60900104	La Luna and Older	Oil	11	4	15	231	235	246	6
172	11500201	Jurassic-Tertiary	Oil	0	80	80	139	220	220	37
173	60590102	Andean Fold Belt Structures	Oil	0	0	0	210	211	211	0
174	11540102	Karabil-Badkhyz (Southern Area)	Gas	0	110	111	88	198	198	56
175	60550103	Dorsal de Neuquen Structure	Oil	262	95	357	93	189	450	79
176	80420101	Greater Indus Foreland and Foldbelt	Gas	111	70	180	119	188	299	60
177	60290101	Western Pre-Aptian Reservoirs	Oil	413	157	570	31	187	601	95
178	11120105	Iran Onshore/Nearshore	Oil	0	0	0	185	185	185	0
179	37020101	Central Luconia	Gas	0	170	170	0	170	170	100
180	70130101	Coastal Plain and Offshore	Oil	0	10	10	157	167	168	6
181	11540101	Northern and Western Areas	Gas	48	92	140	70	162	210	67
182	39100101	Barnett	Oil	0	15	15	140	155	155	10
183	20210102	North Gulf Salt Basin Structural Gas	Gas	0	150	150	0	150	150	100
184	20580501	Tanezzuft-Benoud Structural/Stratigraphic	Gas	16	72	88	72	144	160	55
185	39480201	Locker-Mungaroo/Barrow	Gas	0	6	6	132	137	137	4
186	10500103	North Barents	Gas	0	0	0	135	135	135	0
187	37030102	North Malay Lacustrine	Oil	0	0	0	124	124	124	0
188	37020201	East Natuna	Gas	0	20	20	102	122	122	16
189	73030101	Offshore	Gas	0	0	0	116	116	116	0



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190	38220102	Mergui	Gas	0	0	0	101	101	101	0
191	31420201	Jurassic Lacustrine	Oil	38	71	109	27	99	136	80
192	60900103	Eastern	Gas	0	0	0	99	99	99	0
193	20710102	Gulf of Suez Qaa Plain	Oil	0	0	0	93	93	93	0
194	11080103	Subsalt Jurassic	Gas	4	1	5	90	91	95	5
195	60340101	Espirito Santo Shelf	Oil	93	37	130	54	91	184	71
196	31540102	Kuche (Northern) Foldbelt	Gas	7	0	7	89	89	96	8
197	60410201	Ene	Oil	0	0	0	74	74	74	0
198	11080102	Foreland Slope	Gas	1	19	20	48	67	68	30
199	40480601	Hungarian Paleogene Basin	Oil	10	1	11	49	50	60	18
200	40470301	Paleozoic Reservoirs	Oil	0	1	1	47	47	47	1
201	60830101	Neogene Pull-Apart Basin	Oil	4	0	4	37	37	41	11
202	20580201	Tanezzuft-Ahnet Structural/Stratigraphic	Gas	0	1	1	34	35	35	3
203	40360101	Southern Permian Basin-U.K. Onshore	Oil	39	25	64	7	32	71	90
204	20580101	Tanezzuft-Timimoun Structural/Stratigraphic	Gas	0	0	0	31	31	31	0
205	80470302	Eastern Fold Belt	Gas	3	2	4	24	26	28	16
206	52430301	Exshaw-Rundle Gas	Gas	170	20	191	0	20	191	100
207	61030101	Carupano Basin Gas	Gas	0	20	20	0	20	20	100
208	20580601	Tanezzuft-Bechar/Abadla Structural/Stratigraphic	Gas	0	0	0	16	16	16	0
209	80470301	Central Basin	Gas	0	0	0	15	15	15	0
210	52440301	Bakken Sandstone	Oil	5	2	7	11	13	18	40
211	20580401	Tanezzuft-Mouydir Structural/Stratigraphic	Gas	0	0	0	12	12	12	0
212	52440201	Brightholme Oil	Oil	11	4	14	8	11	22	66
213	52430401	Combined Triassic/Jurassic Gas	Gas	47	7	54	0	7	54	100
214	52440101	Yeoman Oil	Oil	1	0	1	5	6	6	15
215	31440201	Structural Traps	Gas	0	5	5	0	5	5	100
216	52430201	Leduc Gas	Gas	39	2	42	0	2	42	100
217	10150201	Permian Reefs/Thrust Folds	Gas	106	(-41)	65	42	(1)	106	61
218	40470101	Foreland Basin	Gas	1	1	1	0	1	1	100
219	20300201	Northern Qatar Arch Extension	Gas	0	0	0	0	0	0	NA
220	31420101	Southeastern Fold Belt	Gas	0	0	0	0	0	0	100
221	31420102	Northwestern Depression/Foldbelt	Gas	0	0	0	0	0	0	NA
222	31420402	Lower Paleozoic of Southeastern Fold Belt	Gas	0	0	0	0	0	0	NA
223	39100201	Petrel	Gas	0	0	0	0	0	0	NA
224	39100202	Vulcan Graben	Gas	0	0	0	0	0	0	NA
225	40480301	Danube Basin	Gas	0	0	0	0	0	0	NA
226	40480401	Transcarpathian Basin	Gas	0	0	0	0	0	0	NA
227	40570101	Transylvanian Neogene Suprasalt Gas	Gas	0	0	0	0	0	0	NA
228	40600101	Neogene Flysch Gas	Gas	13	0	14	0	0	14	100
229	52430101	Keg River Gas	Gas	0	0	0	0	0	0	NA
230	52430501	Mannville Gas	Gas	0	0	0	0	0	0	NA
231	52430601	Second White Specks-Cardium Gas	Gas	0	0	0	0	0	0	NA
232	80420102	Indus Fan	Gas	0	0	0	0	0	0	NA

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
233	11540103	Murgab Depression Suprasalt	Gas	1	(-1)	0	0	(-1)	0	NA
234	31420401	Leshan-Longnusi Paleohigh	Gas	9	(-8)	1	0	(-8)	1	100
235	11090302	Onshore Stavropol-Prikumsk	Oil	1,200	(-380)	820	287	(-93)	1,107	74
236	53050101	El Abra-Like Reef and Backreef Limestone	Oil	2,546	(-483)	2,063	289	(-195)	2,352	88
237	11080101	Tertiary Foredeep	Oil	1,268	(-770)	498	280	(-490)	778	64
238	10080103	Foredeep Basins	Gas	803	(-719)	84	214	(-504)	299	28
NA	10080101	Northwest Izhma-Pechora Depression	NA	NA	NA	NA	18	NA	NA	NA
NA	10090103	Continuous Basin-Centered Gas Accumulation	NA	0	0	0	NA	NA	NA	NA
NA	10150104	Self-Sourced Domanik	NA	0	0	0	NA	NA	NA	NA
NA	10160101	North and West Margins Subsalt Pinnacle Reefs	NA	NA	NA	NA	1,522	NA	NA	NA
NA	10160105	Basin Center Subsalt	NA	0	0	0	NA	NA	NA	NA
NA	11500301	Upper Paleozoic Carbonates	NA	NA	NA	NA	0	NA	NA	NA
NA	11740102	Self-Sourced Bazhenov Fractured Reservoirs	NA	0	0	0	NA	NA	NA	NA
NA	20190302	Paleozoic Reservoirs	NA	NA	NA	NA	13,235	NA	NA	NA
NA	31150301	Continuous-Type (Basin-Centered) Gas	NA	0	0	0	NA	NA	NA	NA
NA	31270201	Coal-Sourced Gas	NA	0	0	0	NA	NA	NA	NA
NA	31280201	Basin Centered Gas (Continuous) in Ordovician Carbonate and Permian Sandstone	NA	0	0	0	NA	NA	NA	NA
NA	31280202	Carboniferous and Permian Coalbed Methane (Continuous)	NA	0	0	0	NA	NA	NA	NA
NA	31420103	Continuous Gas in Central Uplift/Northwestern Depression	NA	0	0	0	NA	NA	NA	NA
NA	31420301	Continuous Gas in Northwestern Depression/Central Uplift	NA	NA	NA	NA	NA	NA	NA	NA
NA	38170103	Kutei Basin Fold and Thrust Belt	NA	NA	NA	NA	318	NA	NA	NA
NA	38240301	Biogenic Gas	NA	0	0	0	NA	NA	NA	NA
NA	38240401	Billiton Basin Hypothetical	NA	0	0	0	NA	NA	NA	NA
NA	40480501	Central Carpathian Paleogene Basin	NA	NA	NA	NA	NA	NA	NA	NA
NA	40570102	Transylvanian Subsalt	NA	0	0	0	NA	NA	NA	NA
NA	52150201	Graben Systems Exclusive of Jeanne d'Arc	NA	0	0	0	NA	NA	NA	NA
NA	52430502	Mannville Continuous (Basin-Center) Gas	NA	0	0	0	NA	NA	NA	NA
NA	52430603	Upper Cretaceous Eastern Shallow Gas	NA	216	49	265	NA	NA	NA	NA
NA	60220101	Amazon Delta and Submarine Fan	NA	NA	NA	NA	0	NA	NA	NA
NA	60220102	Offshore Gas Hydrates	NA	0	0	0	NA	NA	NA	NA
NA	60340102	Late Cretaceous-Tertiary Slide Blocks and Turbidites	NA	NA	NA	NA	2,437	NA	NA	NA
NA	60370102	Offshore Gas Hydrates	NA	0	0	0	NA	NA	NA	NA
NA	60580201	Hypothetical Basin-Centered Gas	NA	0	0	0	NA	NA	NA	NA
NA	60980104	Orinoco Heavy Oil and Tar Belt	NA	38	3,719	3,757	NA	NA	NA	NA
NA	60990103	Basin-Centered Gas	NA	0	0	0	NA	NA	NA	NA
NA	61070102	Barbados Accretionary Prism	NA	8	2	11	NA	NA	NA	NA
NA	80470101	Coalbed Gas	NA	0	0	0	NA	NA	NA	NA
NA	80470201	Western Shelf and Slope	NA	NA	NA	NA	64	NA	NA	NA

**Table AR-2f. Assessment units ranked by future gas volume.**

[BCFG, billion cubic feet of gas. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative gas is the reported volume of gas that has been produced. Remaining gas is the calculated remaining reserves; the difference between known and cumulative gas. Known gas is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered gas is the mean volume estimated in World Petroleum Assessment 2000. Future gas is the remaining gas plus estimated mean undiscovered gas. Gas endowment is the known gas plus estimated mean undiscovered gas volumes. Discovery maturity is the percentage of gas discovered (known gas) with respect to gas endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. NA means not applicable; it is shown for all values except mean undiscovered oil if only one field is present in the assessment unit; and for major commodity, mean undiscovered volume, future volume, endowment, and discovery maturity of assessment units not assessed.]

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
1	11740301	Northern West Siberian Onshore Gas	Gas	188,736	896,852	1,085,588	136,608	1,033,460	1,222,196	89
2	11740302	South Kara Sea Offshore	Gas	0	81,700	81,700	403,875	485,575	485,575	17
3	20190301	Khuff Carbonates in Salt Structures	Gas	1,018	450,982	452,000	22,999	473,981	474,999	95
4	20300102	Tertiary Reservoirs	Oil	10,075	249,365	259,440	93,499	342,864	352,939	74
5	20300101	Cretaceous Reservoirs	Oil	15,185	218,613	233,798	104,098	322,711	337,896	69
6	10500102	South Barents and Ludlov Saddle	Gas	0	78,140	78,140	189,244	267,384	267,384	29
7	20210101	Central Arch Horst-Block Anticlinal Oil and Gas	Oil	0	12,115	12,115	230,387	242,502	242,502	5
8	20210201	Horst-Block Anticlinal Oil	Oil	19,990	209,625	229,615	16,055	225,680	245,670	93
9	20210102	North Gulf Salt Basin Structural Gas	Gas	0	67,000	67,000	152,952	219,952	219,952	30
10	20300201	Northern Qatar Arch Extension	Gas	0	131,220	131,220	69,031	200,251	200,251	66
11	11540104	Murgab Depression Subsalt	Gas	16,456	54,120	70,576	141,762	195,883	212,338	33
12	71920101	Agbada Reservoirs	Oil	6,232	87,579	93,811	85,176	172,755	178,986	52
13	11740101	Upper Jurassic-Cretaceous Sandstones	Oil	29,287	68,295	97,582	96,934	165,229	194,516	50
14	10160104	South Margin Subsalt	Oil	428	97,672	98,100	67,521	165,193	165,621	59
15	40250101	Viking Graben	Oil	18,474	94,268	112,742	22,192	116,460	134,933	84
16	40170102	Mid-Norway Continental Margin	Gas	0	0	0	107,832	107,832	107,832	0
17	39480101	Dingo-Mungaroo/Barrow	Gas	1,845	46,400	48,245	56,380	102,780	104,626	46
18	20580501	Tanezzuft-Benoud Structural/Stratigraphic	Gas	4,980	100,070	105,050	2,541	102,611	107,591	98
19	11120104	Central Offshore	Oil	0	0	0	82,836	82,836	82,836	0
20	20190202	Jurassic Reservoirs in South Gulf Suprasalt/Qatar Arch Structural	Oil	1,951	69,061	71,012	12,457	81,518	83,469	85
21	52000101	Northeast Greenland Shelf Rift Systems	Oil	0	0	0	80,709	80,709	80,709	0
22	13220101	Onshore and Offshore Northeastern Shelf	Oil	162	22,221	22,383	57,451	79,673	79,835	28
23	40360102	Southern Permian Basin-Europe Onshore	Gas	81,742	66,484	148,227	12,730	79,214	160,957	92
24	12100101	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	Gas	0	30,210	30,210	46,039	76,249	76,249	40
25	10150101	Supra-Domanik Carbonates/Clastics	Oil	4,508	72,570	77,078	1,141	73,710	78,218	99
26	40170101	Halten Terrace-Trondelag Platform	Oil	0	15,662	15,662	57,369	73,031	73,031	21
27	20560101	Tanezzuft-Illizi Structural/Stratigraphic	Oil	750	44,311	45,061	27,785	72,096	72,846	62

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
28	38170101	Kutei Basin Deltaics	Oil	8,711	35,762	44,473	35,757	71,519	80,230	55
29	20190102	Cretaceous Reservoirs in South Gulf Suprasalt Structural	Oil	2,705	65,090	67,795	4,073	69,163	71,868	94
30	20230101	Horst/Graben-Related Oil and Gas	Oil	47	1,614	1,661	64,510	66,124	66,172	3
31	60360101	Santos Shelf	Oil	12	1,113	1,125	62,874	63,987	63,999	2
32	60980101	East Venezuela Fold and Thrust Belt	Oil	10,673	41,706	52,379	21,298	63,004	73,677	71
33	60980102	Guarico Sub-Basin	Gas	2,933	44,646	47,579	16,995	61,641	64,574	74
34	10500103	North Barents	Gas	0	0	0	59,820	59,820	59,820	0
35	20210202	Salt-Involved Structural Oil	Oil	4,831	40,849	45,680	17,991	58,840	63,671	72
36	11120103	Gograndag-Okarem Zone and Adjacent Shelf	Oil	173	8,868	9,042	47,515	56,383	56,557	16
37	72030302	Central Congo Turbidites	Oil	0	2	2	55,268	55,270	55,270	0
38	11540102	Karabil-Badkhyz (Southern Area)	Gas	11,053	47,057	58,110	7,657	54,714	65,767	88
39	20190201	Jurassic Reservoirs in Northwest Desert Anticlines	Oil	0	6,500	6,500	46,058	52,558	52,558	12
40	40680101	Subsalt	Gas	0	0	0	51,210	51,210	51,210	0
41	71920102	Akata Reservoirs	Oil	0	0	0	47,540	47,540	47,540	0
42	20710201	Red Sea Coastal Block Faults	Gas	10	3,517	3,527	43,946	47,463	47,473	7
43	37020201	East Natuna	Gas	0	45,045	45,045	1,963	47,008	47,008	96
44	31540101	Tarim Basin Excluding Marginal Foldbelts	Oil	14	5,140	5,154	41,454	46,594	46,608	11
45	37020101	Central Luconia	Gas	3,731	31,304	35,035	15,067	46,370	50,102	70
46	80420101	Greater Indus Foreland and Foldbelt	Gas	15,101	20,272	35,373	25,405	45,677	60,778	58
47	37030101	South Malay Lacustrine	Oil	454	23,619	24,073	21,935	45,554	46,008	52
48	40360103	Southern Permian Basin-Offshore	Gas	42,288	31,546	73,834	13,029	44,575	86,862	85
49	53050102	Tamabra-Like Debris-Flow-Breccia Limestone Overlying Evaporites	Oil	13,276	22,402	35,678	20,450	42,851	56,127	64
50	61030101	Carupano Basin Gas	Gas	0	22,600	22,600	20,103	42,703	42,703	53
51	40250103	Central Graben	Oil	11,950	28,370	40,320	13,801	42,172	54,122	74
52	60990101	Main Maracaibo Basin	Oil	61	24,857	24,918	16,085	40,942	41,002	61
53	37010101	Brunei-Sabah Deltaics	Oil	9,168	24,587	33,755	15,977	40,564	49,732	68
54	11120102	Lower Kura Depression and Adjacent Shelf	Oil	1,285	6,939	8,224	32,091	39,030	40,315	20
55	10090101	Carboniferous-Lower Permian Clastics	Gas	35,453	23,645	59,098	14,735	38,380	73,833	80
56	39130101	Late Jurassic/Early Cretaceous-Mesozoic	Gas	0	17,960	17,960	20,093	38,053	38,053	47
57	11540101	Northern and Western Areas	Gas	24,483	27,929	52,412	9,547	37,476	61,959	85
58	60980201	Trinidad Basins	Oil	3,156	12,667	15,822	23,960	36,627	39,782	40
59	80470302	Eastern Fold Belt	Gas	2,669	9,620	12,289	26,494	36,114	38,783	32
60	60210101	Late Cretaceous-Tertiary Turbidites	Oil	0	0	0	34,625	34,625	34,625	0
61	10080102	Main Basin Platform	Oil	892	19,623	20,515	14,515	34,138	35,030	59
62	20040101	Ma'rib-Al Jawf/Shabwah/Masila	Oil	0	17,120	17,120	16,982	34,102	34,102	50
63	20430102	Central Sirte Carbonates	Oil	4,079	24,101	28,180	9,918	34,019	38,098	74
64	20190103	Mesozoic/Tertiary Foredeep Fold and Thrust	Gas	2,522	15,470	17,993	15,419	30,889	33,411	54
65	60450101	Sub-Andean Fold and Thrust Belt	Gas	6,813	10,004	16,818	20,521	30,525	37,339	45
66	20140101	Ghaba-Makarem Combined Structural	Oil	149	20,189	20,339	10,112	30,301	30,450	67
67	60980202	Orinoco Delta and Offshore	Oil	0	0	0	28,049	28,049	28,049	0
68	20540301	Tanezzuft-Ghadames Structural/Stratigraphic	Oil	579	15,905	16,484	12,035	27,940	28,519	58

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
69	11540103	Murgab Depression Suprasalt	Gas	26,549	22,967	49,516	4,684	27,651	54,200	91
70	37030201	South Malay Coaly	Gas	38	23,863	23,901	3,768	27,631	27,669	86
71	80480102	Irrawaddy-Andaman	Gas	333	8,706	9,040	18,512	27,219	27,552	33
72	38170102	Kutei Basin Turbidites	Oil	0	0	0	25,687	25,687	25,687	0
73	40600101	Neogene Flysch Gas	Gas	9,373	9,102	18,475	16,267	25,369	34,741	53
74	38280101	South Sumatra	Oil	3,125	7,080	10,204	18,250	25,330	28,455	36
75	60590101	Magallanes Extensional Structures	Gas	10,042	14,697	24,739	10,386	25,082	35,124	70
76	10080103	Foredeep Basins	Gas	11,482	4,635	16,117	19,891	24,526	36,008	45
77	53050106	Tamaulipas-Like Basinal Limestone and Tertiary Strata Overlying Evaporites	Oil	1,633	6,007	7,640	18,516	24,522	26,155	29
78	80470301	Central Basin	Gas	0	0	0	23,985	23,985	23,985	0
79	72030301	Central Congo Delta and Carbonate Platform	Oil	838	8,603	9,441	14,314	22,916	23,754	40
80	60370101	Pelotas Platform and Basin	Oil	0	0	0	22,806	22,806	22,806	0
81	11090101	Foldbelt-Foothills	Oil	192	7,648	7,840	14,512	22,159	22,351	35
82	12070101	Yenisey Foldbelt Riphean-Craton Margin Riphean	Oil	0	5,052	5,052	16,983	22,035	22,035	23
83	80430101	Eocene-Miocene Bombay Shelf	Oil	4,887	12,641	17,528	9,299	21,940	26,827	65
84	38220101	North Sumatra	Gas	13,977	11,582	25,559	9,117	20,699	34,677	74
85	11120101	Apsheon-Pribalkhan Zone	Oil	7,133	11,596	18,729	7,908	19,503	26,636	70
86	60350101	Late Cretaceous-Tertiary Turbidites	Oil	224	5,538	5,761	13,917	19,455	19,679	29
87	60550101	Neuquen Extensional Structures	Oil	5,293	11,407	16,699	7,724	19,131	24,424	68
88	39100301	Malita	Oil	0	7,526	7,526	11,346	18,872	18,872	40
89	20480101	Bou Dabbous-Tertiary Structural/Stratigraphic	Oil	37	15,472	15,509	2,746	18,218	18,256	85
90	20190101	Cretaceous Reservoirs in Northwest Desert Anticlines	Oil	1,114	15,198	16,312	2,819	18,017	19,131	85
91	60360102	Salt-Structured Deep-Water Sandstones	Oil	0	0	0	17,673	17,673	17,673	0
92	10500101	Kolguyev Terrace	Gas	0	3	3	17,554	17,556	17,556	0
93	60960101	Central	Oil	111	14,961	15,071	2,180	17,141	17,251	87
94	39480201	Locker-Mungaroo/Barrow	Gas	27	8,075	8,102	8,331	16,406	16,432	49
95	20160101	Fahud-Huqf Combined Structural	Oil	536	7,097	7,633	8,206	15,303	15,839	48
96	11080102	Foreland Slope	Gas	6,556	8,039	14,595	6,894	14,933	21,489	68
97	72030201	Gabon Suprasalt	Oil	203	1,632	1,835	13,230	14,862	15,065	12
98	52430501	Mannville Gas	Gas	14,229	10,225	24,453	4,597	14,821	29,050	84
99	20230202	Basinal Oil and Gas	Oil	0	0	0	14,201	14,201	14,201	0
100	39100201	Petrel	Gas	0	5,730	5,730	8,328	14,058	14,058	41
101	31270101	Tertiary Lacustrine	Oil	2,955	8,898	11,853	4,639	13,537	16,492	72
102	38240201	Ardjuna	Oil	794	6,529	7,322	6,579	13,108	13,901	53
103	10160103	East and Southeast Margins Subsalt	Oil	0	5,364	5,364	6,781	12,145	12,145	44
104	71830101	Coastal Plain and Offshore	Oil	46	1,903	1,949	10,071	11,974	12,020	16
105	61070101	Inner Forearc Deformation Belt	Oil	0	0	0	11,957	11,957	11,957	0
106	39300101	Gippsland	Oil	3,501	6,274	9,775	5,658	11,932	15,433	63
107	40570101	Transylvanian Neogene Suprasalt Gas	Gas	21,194	9,537	30,731	2,083	11,620	32,814	94
108	11090102	Terek-Sunzha Subsalt Jurassic	Gas	0	0	0	11,464	11,464	11,464	0
109	10160106	Suprasalt	Oil	131	1,496	1,628	9,934	11,430	11,562	14

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
110	60630101	Malvinas Extensional Structures	Oil	0	75	75	11,327	11,402	11,402	1
111	52150101	Jeanne d'Arc	Oil	0	2,406	2,406	8,893	11,298	11,298	21
112	20540101	Tanezzuft-Oued Mya Structural/Stratigraphic	Oil	68	8,905	8,973	2,341	11,246	11,314	79
113	31540102	Kuche (Northern) Foldbelt	Gas	2	65	66	10,712	10,777	10,778	1
114	11740201	Pre-Upper Jurassic	Oil	443	4,738	5,180	5,516	10,254	10,697	48
115	60980103	Maturin Sub-Basin	Oil	5,288	6,791	12,078	3,258	10,049	15,337	79
116	31420101	Southeastern Fold Belt	Gas	5,368	5,313	10,681	4,488	9,801	15,169	70
117	37010102	Brunei-Sabah Turbidites	Oil	20	2,425	2,445	7,249	9,674	9,694	25
118	73030101	Offshore	Gas	0	6,015	6,015	3,603	9,618	9,618	63
119	10090102	Devonian Synrift	Oil	0	0	0	9,317	9,317	9,317	0
120	20710101	Gulf of Suez Block-Fault Fairway	Oil	835	5,125	5,960	4,172	9,296	10,132	59
121	20430101	Southeast Sirte Clastics	Oil	1,400	8,187	9,587	808	8,995	10,395	92
122	80430102	Eocene-Miocene Deltaics	Oil	1,342	5,324	6,665	3,645	8,969	10,310	65
123	60600101	North Falklands Basin	Oil	0	0	0	8,871	8,871	8,871	0
124	20230201	Platform Horst/Graben-Related Oil	Oil	0	100	100	8,741	8,841	8,841	1
125	60340103	Abrolhos Sub-Volcanic Structures	Oil	0	0	0	8,545	8,545	8,545	0
126	60290102	Late Cretaceous-Tertiary Deep-Water Sandstones	Oil	66	169	236	8,166	8,336	8,402	3
127	31540103	Southwest Foldbelt	Oil	192	368	560	7,773	8,141	8,333	7
128	11090201	South Mangyshlak (Entire)	Oil	28	5,679	5,707	2,262	7,941	7,969	72
129	60600201	South Falklands Basin	Oil	0	0	0	7,710	7,710	7,710	0
130	31270102	Pre-Tertiary Buried Hills	Oil	32	3,787	3,819	3,875	7,662	7,693	50
131	40470101	Foreland Basin	Gas	5,455	5,205	10,660	2,321	7,525	12,980	82
132	60450102	Foreland Basins	Oil	115	53	168	7,375	7,429	7,543	2
133	52430301	Exshaw-Rundle Gas	Gas	10,268	5,145	15,413	2,197	7,342	17,610	88
134	38080101	Pematang/Sihapas Siliciclastics	Oil	910	2,956	3,866	4,078	7,034	7,944	49
135	40250102	Moray Firth	Oil	629	5,223	5,852	1,752	6,975	7,604	77
136	52430201	Leduc Gas	Gas	4,964	4,257	9,221	2,442	6,699	11,663	79
137	40480101	Greater Hungarian Plain Basins	Oil	5,436	4,221	9,657	2,395	6,616	12,052	80
138	60210102	Cretaceous Carbonates	Oil	0	0	0	6,595	6,595	6,595	0
139	53050103	Tamabra-Like Debris-Flow-Breccia Limestone and Overlying Strata	Oil	335	195	530	6,147	6,342	6,677	8
140	11080101	Tertiary Foredeep	Oil	945	2,999	3,944	3,139	6,137	7,083	56
141	20580201	Tanezzuft-Ahnet Structural/Stratigraphic	Gas	0	3,117	3,117	2,973	6,090	6,090	51
142	38220102	Mergui	Gas	0	0	0	6,005	6,005	6,005	0
143	20710103	Southern Gulf of Suez	Oil	4	30	35	5,974	6,004	6,008	1
144	20710202	Red Sea Salt Basin	Oil	0	0	0	5,875	5,875	5,875	0
145	60810101	Cretaceous-Paleogene Basin	Oil	1,951	941	2,892	4,795	5,736	7,687	38
146	80340101	Sylhet-Kopili/Barail-Tipam Composite	Oil	2,039	4,495	6,534	1,178	5,673	7,712	85
147	10160102	North and West Margins Subsalt Barrier Reefs	Oil	8	1,262	1,270	4,271	5,533	5,540	23
148	10150103	Sub-Domanik Devonian Clastics	Oil	4,720	4,728	9,448	695	5,423	10,144	93
149	20580101	Tanezzuft-Timimoun Structural/Stratigraphic	Gas	0	4,200	4,200	1,128	5,328	5,328	79
150	20540201	Tanezzuft-Melhir Structural/Stratigraphic	Oil	0	125	125	4,887	5,012	5,012	2
151	11090302	Onshore Stavropol-Prikumsk	Oil	9,670	3,829	13,499	1,163	4,992	14,662	92

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
152	40610201	Romania Flysch Zone	Oil	530	2,692	3,222	2,177	4,869	5,399	60
153	60900103	Eastern	Gas	0	2,000	2,000	2,735	4,735	4,735	42
154	11090303	Central Caspian Offshore	Oil	0	0	0	4,572	4,572	4,572	0
155	60580101	San Jorge Extensional Structures	Oil	1,435	1,534	2,968	3,038	4,572	6,006	49
156	72030101	Gabon Subsalt	Oil	62	780	843	3,674	4,455	4,517	19
157	40470201	Deformed Belt	Oil	3,360	2,033	5,393	2,345	4,378	7,738	70
158	52430402	Combined Triassic/Jurassic Oil and Gas	Oil	3,119	3,497	6,615	877	4,374	7,493	88
159	60550102	Neuquen Foothills Structure	Oil	159	539	697	3,764	4,303	4,462	16
160	37020102	Balingian	Oil	0	2,084	2,084	2,217	4,301	4,301	48
161	60960102	Peripheral	Oil	28	214	242	4,036	4,251	4,279	6
162	20430103	Offshore Sirte Hypothetical	Oil	0	0	0	4,199	4,199	4,199	0
163	60350103	Salt Dome Province Tertiary Sandstones	Oil	0	0	0	4,031	4,031	4,031	0
164	40480201	Zala-Drava-Sava Basins	Oil	1,082	2,847	3,929	1,151	3,998	5,080	77
165	80420102	Indus Fan	Gas	0	0	0	3,919	3,919	3,919	0
166	11090301	Offshore Prikumsk Zone	Oil	0	0	0	3,910	3,910	3,910	0
167	10150102	Lower Volga	Oil	6,618	3,314	9,932	558	3,873	10,490	95
168	52430401	Combined Triassic/Jurassic Gas	Gas	1,465	2,500	3,965	1,289	3,789	5,254	75
169	60590102	Andean Fold Belt Structures	Oil	11	57	69	3,655	3,712	3,723	2
170	11500201	Jurassic-Tertiary	Oil	0	1,450	1,450	2,180	3,630	3,630	40
171	31420401	Leshan-Longnusi Paleohigh	Gas	491	859	1,350	2,763	3,622	4,113	33
172	10150201	Permian Reefs/Thrust Folds	Gas	571	2,067	2,638	1,547	3,615	4,185	63
173	20480201	Jurassic-Cretaceous Structural/Stratigraphic	Oil	6	1,295	1,301	2,280	3,575	3,581	36
174	31440201	Structural Traps	Gas	0	145	145	3,212	3,357	3,357	4
175	60450103	Foreland Central Chaco High	Oil	0	0	0	3,211	3,211	3,211	0
176	53050104	Tamabra-Like Debris-Flow-Breccia Limestone of the Golden Lane	Oil	1,862	1,961	3,824	1,113	3,074	4,937	77
177	52430602	Second White Specks-Cardium Oil and Gas	Oil	3,298	2,151	5,449	840	2,991	6,289	87
178	11120105	Iran Onshore/Nearshore	Oil	0	0	0	2,960	2,960	2,960	0
179	20160201	Natih-Fiqa Structural/Stratigraphic	Oil	616	2,485	3,100	363	2,848	3,463	90
180	31440101	Subtle Traps	Oil	3	909	913	1,789	2,698	2,701	34
181	39100202	Vulcan Graben	Gas	0	0	0	2,668	2,668	2,668	0
182	52430101	Keg River Gas	Gas	4,019	1,793	5,812	868	2,661	6,680	87
183	80480101	Central Burma Basin	Oil	389	591	981	2,008	2,600	2,989	33
184	60990102	Southwest Maracaibo Basin Fold Belt	Oil	918	865	1,783	1,491	2,356	3,275	54
185	11080103	Subsalt Jurassic	Gas	84	81	165	2,219	2,300	2,384	7
186	53050105	Tamaulipas-Like Basinal Limestone and Tertiary Strata Without Underlying Evaporites	Oil	293	1,443	1,736	804	2,247	2,540	68
187	60350102	Cretaceous Carbonates	Oil	79	403	482	1,743	2,146	2,225	22
188	20580301	Tanezzuft-Sbaa Structural/Stratigraphic	Oil	0	1,490	1,490	645	2,134	2,134	70
189	31150101	Upper Paleozoic/Lower Mesozoic Nonmarine Coarse Clastics	Oil	491	1,757	2,248	346	2,104	2,594	87
190	60550103	Dorsal de Neuquen Structure	Oil	2,184	1,122	3,307	927	2,049	4,234	78
191	52430302	Exshaw-Rundle Oil and Gas	Oil	4,583	1,572	6,155	466	2,038	6,621	93

Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
192	40600201	Thermal Triassic	Oil	154	257	412	1,698	1,955	2,109	20
193	37030102	North Malay Lacustrine	Oil	0	175	175	1,762	1,937	1,937	9
194	52430202	Leduc Oil and Gas	Oil	4,086	1,050	5,136	782	1,832	5,918	87
195	11090103	Foreland Slope and Foredeep	Oil	0	0	0	1,804	1,804	1,804	0
196	53050107	Tamabra-Like Debris-Flow-Breccia Limestone North of Campeche	Oil	0	0	0	1,735	1,735	1,735	0
197	80260101	Kohat-Potwar Intrathrust Basin	Oil	807	1,174	1,981	551	1,726	2,533	78
198	53050101	El Abra-Like Reef and Backreef Limestone	Oil	209	1,206	1,415	507	1,713	1,922	74
199	60410101	Hollin-Napo	Oil	661	955	1,616	755	1,711	2,372	68
200	31420102	Northwestern Depression/Foldbelt	Gas	302	38	340	1,650	1,687	1,990	17
201	52430102	Keg River Oil and Gas	Oil	570	691	1,261	907	1,599	2,169	58
202	72030401	Cuanza-Namibe	Oil	46	13	59	1,558	1,571	1,617	4
203	31440102	Anticlinal	Oil	0	685	685	705	1,390	1,390	49
204	52430601	Second White Specks-Cardium Gas	Gas	974	1,097	2,071	285	1,382	2,356	88
205	31150201	Jurassic/Tertiary Fluvial and Lacustrine Sandstone	Oil	10	332	342	950	1,281	1,292	26
206	31420402	Lower Paleozoic of Southeastern Fold Belt	Gas	0	0	0	1,273	1,273	1,273	0
207	38240101	Sunda/Asri	Oil	233	381	614	874	1,255	1,488	41
208	40610101	Moesian Platform	Oil	1,546	671	2,217	561	1,232	2,778	80
209	40610202	Romania Ploiesti Zone	Oil	1,050	776	1,826	441	1,217	2,267	81
210	39100101	Barnett	Oil	0	48	48	1,151	1,199	1,199	4
211	60580102	San Bernardo Fold Belt Structures	Oil	232	365	597	735	1,100	1,332	45
212	60290101	Western Pre-Aptian Reservoirs	Oil	282	890	1,171	168	1,057	1,339	87
213	11500101	Mesozoic Sandstone Reservoirs	Oil	0	943	943	89	1,033	1,033	91
214	70130101	Coastal Plain and Offshore	Oil	4	45	49	856	901	905	5
215	60410201	Ene	Oil	0	0	0	841	841	841	0
216	60210103	Late Cretaceous-Tertiary Nearshore Sandstones	Oil	0	0	0	839	839	839	0
217	60830101	Neogene Pull-Apart Basin	Oil	0	340	340	471	811	811	42
218	60900101	Northern	Oil	2,186	605	2,791	119	724	2,910	96
219	61170101	North Cuba Fold and Thrust Belt	Oil	20	77	96	592	668	688	14
220	40470301	Paleozoic Reservoirs	Oil	0	233	233	383	616	616	38
221	20580601	Tanezzuft-Bechar/Abadla Structural/Stratigraphic	Gas	0	0	0	441	441	441	0
222	60900104	La Luna and Older	Oil	2	2	5	399	401	403	1
223	40480301	Danube Basin	Gas	7	240	247	146	386	393	63
224	40480401	Transcarpathian Basin	Gas	0	261	261	112	373	373	70
225	40480601	Hungarian Paleogene Basin	Oil	15	1	16	339	340	355	4
226	20580401	Tanezzuft-Mouydir Structural/Stratigraphic	Gas	0	0	0	292	292	292	0
227	60830201	Cretaceous-Paleogene Santa Elena Block	Oil	148	10	158	224	233	382	41
228	52440401	Lodgepole Oil	Oil	728	166	893	63	228	956	93
229	31420201	Jurassic Lacustrine	Oil	50	90	140	137	227	278	51
230	60340101	Espirito Santo Shelf	Oil	42	130	172	65	195	237	73
231	60900102	Southern	Oil	121	85	206	40	125	246	84
232	40360101	Southern Permian Basin-U.K. Onshore	Oil	18	81	99	31	112	130	76
233	20430104	Southeast Sirte Hypothetical	Oil	0	0	0	60	60	60	0



Rank	Assessment Unit Code	Assessment Unit Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
234	20710102	Gulf of Suez Qaa Plain	Oil	0	0	0	46	46	46	0
235	31280101	Jurassic/Triassic Fluvial and Lacustrine Sandstone	Oil	13	7	20	20	27	40	50
236	52440201	Brightholme Oil	Oil	8	3	11	5	8	16	67
237	52440101	Yeoman Oil	Oil	0	0	0	4	4	4	3
238	52440301	Bakken Sandstone	Oil	0	0	0	3	3	4	9
NA	10080101	Northwest Izhma-Pechora Depression	NA	NA	NA	NA	120	NA	NA	NA
NA	10090103	Continuous Basin-Centered Gas Accumulation	NA	0	0	0	NA	NA	NA	NA
NA	10150104	Self-Sourced Domanik	NA	0	0	0	NA	NA	NA	NA
NA	10160101	North and West Margins Subsalt Pinnacle Reefs	NA	NA	NA	NA	30,544	NA	NA	NA
NA	10160105	Basin Center Subsalt	NA	0	0	0	NA	NA	NA	NA
NA	11500301	Upper Paleozoic Carbonates	NA	NA	NA	NA	8,500	NA	NA	NA
NA	11740102	Self-Sourced Bazhenov Fractured Reservoirs	NA	0	0	0	NA	NA	NA	NA
NA	20190302	Paleozoic Reservoirs	NA	NA	NA	NA	323,892	NA	NA	NA
NA	31150301	Continuous-Type (Basin-Centered) Gas	NA	0	0	0	NA	NA	NA	NA
NA	31270201	Coal-Sourced Gas	NA	0	0	0	NA	NA	NA	NA
NA	31280201	Basin Centered Gas (Continuous) in Ordovician Carbonate and Permian Sandstone	NA	0	5,590	5,590	NA	NA	NA	NA
NA	31280202	Carboniferous and Permian Coalbed Methane (Continuous)	NA	0	0	0	NA	NA	NA	NA
NA	31420103	Continuous Gas in Central Uplift/Northwestern Depression	NA	38	13	51	NA	NA	NA	NA
NA	31420301	Continuous Gas in Northwestern Depression/Central Uplift	NA	NA	NA	NA	NA	NA	NA	NA
NA	38170103	Kutei Basin Fold and Thrust Belt	NA	NA	NA	NA	3,313	NA	NA	NA
NA	38240301	Biogenic Gas	NA	0	119	119	NA	NA	NA	NA
NA	38240401	Billiton Basin Hypothetical	NA	0	0	0	NA	NA	NA	NA
NA	40480501	Central Carpathian Paleogene Basin	NA	NA	NA	NA	NA	NA	NA	NA
NA	40570102	Transylvanian Subsalt	NA	0	0	0	NA	NA	NA	NA
NA	52150201	Graben Systems Exclusive of Jeanne d'Arc	NA	0	4,224	4,224	NA	NA	NA	NA
NA	52430502	Mannville Continuous (Basin-Center) Gas	NA	2,942	3,335	6,278	NA	NA	NA	NA
NA	52430603	Upper Cretaceous Eastern Shallow Gas	NA	11,738	7,191	18,929	NA	NA	NA	NA
NA	60220101	Amazon Delta and Submarine Fan	NA	NA	NA	NA	29,840	NA	NA	NA
NA	60220102	Offshore Gas Hydrates	NA	0	0	0	NA	NA	NA	NA
NA	60340102	Late Cretaceous-Tertiary Slide Blocks and Turbidites	NA	NA	NA	NA	25,677	NA	NA	NA
NA	60370102	Offshore Gas Hydrates	NA	0	0	0	NA	NA	NA	NA
NA	60580201	Hypothetical Basin-Centered Gas	NA	0	0	0	NA	NA	NA	NA
NA	60980104	Orinoco Heavy Oil and Tar Belt	NA	3	257	260	NA	NA	NA	NA
NA	60990103	Basin-Centered Gas	NA	0	0	0	NA	NA	NA	NA
NA	61070102	Barbados Accretionary Prism	NA	16	7	22	NA	NA	NA	NA
NA	80470101	Coalbed Gas	NA	0	0	0	NA	NA	NA	NA
NA	80470201	Western Shelf and Slope	NA	NA	NA	NA	4,613	NA	NA	NA

**Table AR-3a. Total petroleum systems ranked by mean (expected) undiscovered oil.**

[MMBO, million barrels of oil. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative oil is the reported volume of oil that has been produced. Remaining oil is the calculated remaining reserves; the difference between known and cumulative oil. Known oil is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered oil is the mean volume estimated in World Petroleum Assessment 2000. Future oil is the remaining oil plus estimated mean undiscovered oil. Oil endowment is the known oil plus estimated mean undiscovered oil volumes. Discovery maturity is the percentage of oil discovered (known oil) with respect to oil endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. Negative values result from inconsistent reporting of cumulative and known volumes. Values in parentheses ( ) are questionable data. NA means not applicable; it is shown for all values except mean undiscovered oil if only one field is present in the total petroleum system; and for major commodity, mean undiscovered volume, future volume, endowment, and discovery maturity of total petroleum systems containing only unassessed assessment units.]

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
1	203001	Zagros-Mesopotamian Cretaceous-Tertiary	Oil	100,467	271,760	372,226	94,516	366,275	466,742	80
2	520001	Permian/Upper Jurassic Composite	Oil	0	0	0	47,148	47,148	47,148	0
3	117401	Bazhenov-Neocomian	Oil	45,819	72,153	117,972	42,947	115,100	160,919	73
4	202102	Arabian Sub-Basin Tuwaiq/Hanifa-Arab	Oil	63,853	135,142	198,995	41,703	176,845	240,698	83
5	719201	Tertiary Niger Delta (Agbada/Akata)	Oil	16,598	17,925	34,522	40,487	58,412	75,010	46
6	101601	Paleozoic North Caspian	Oil	822	9,987	10,808	23,320	33,307	34,128	32
7	603601	Guaratiba-Guaruja (Cretaceous) Composite	Oil	6	279	285	23,209	23,488	23,494	1
8	720303	Congo Delta Composite	Oil	3,693	6,052	9,745	23,198	29,250	32,943	30
9	530501	Pimienta-Tamabra	Oil	22,139	22,273	44,412	20,569	42,841	64,980	68
10	202101	Central Arabia Qusaiba Paleozoic	Oil	84	6,292	6,376	19,190	25,481	25,566	25
11	603501	Lagoa Feia-Carapebus	Oil	1,769	8,287	10,056	16,293	24,580	26,349	38
12	111201	Oligocene-Miocene Maykop/Diatom	Oil	11,681	5,758	17,438	15,725	21,483	33,163	53
13	602101	Cenomanian-Turonian	Oil	17	46	63	15,247	15,293	15,310	0
14	201902	Jurassic Hanifa/Diyab-Arab	Oil	5,688	13,325	19,013	14,478	27,803	33,491	57
15	201903	Silurian Qusaiba	Gas	41	514	555	13,235	13,749	13,790	4
16	402501	Kimmeridgian Shales	Oil	22,467	21,427	43,895	13,098	34,526	56,993	77
17	201901	Cretaceous Thamama/Wasia	Oil	13,544	57,686	71,231	8,979	66,665	80,209	89
18	609901	La Luna/Maracaibo	Oil	35,581	13,491	49,072	8,183	21,675	57,256	86
19	117402	Togur-Tyumen	Oil	645	11,111	11,756	7,474	18,584	19,230	61
20	609801	Querecual	Oil	11,027	15,729	26,756	7,231	22,960	33,988	79
21	204301	Sirte-Zelten	Oil	13,986	23,087	37,072	6,854	29,941	43,927	84
22	202302	Jurassic Gotnia/Barsarin/Sargelu/Najmah	Oil	94	379	474	6,569	6,948	7,042	7
23	401701	Upper Jurassic Spekk	Oil	76	2,585	2,660	6,538	9,123	9,199	29
24	315401	Ordovician/Jurassic-Phanerozoic	Oil	45	658	704	5,948	6,606	6,652	11
25	100801	Domanik-Paleozoic	Oil	3,346	9,723	13,069	5,170	14,892	18,239	72
26	381701	Kutei Basin	Oil	2,195	684	2,879	5,145	5,829	8,024	36
27	720302	Azile-Senonian	Oil	1,278	836	2,114	5,031	5,867	7,145	30
28	117403	Northern West Siberian Mesozoic Composite	Gas	66	10,119	10,185	4,814	14,933	14,999	68

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
29	609802	Upper Cretaceous/Tertiary	Oil	2,780	667	3,447	4,644	5,311	8,091	43
30	205403	Tanezzuft-Ghadames	Oil	1,629	2,909	4,538	4,461	7,370	8,999	50
31	312701	Shahejie-Shahejie/Guantao/Wumishan	Oil	10,415	14,139	24,553	4,412	18,550	28,965	85
32	609601	Gacheta-Mirador	Oil	1,179	4,224	5,402	3,631	7,855	9,033	60
33	606001	Neocomian Lacustrine	Oil	0	0	0	3,603	3,603	3,603	0
34	370101	Brunei-Sabah	Oil	3,953	2,945	6,898	3,390	6,335	10,288	67
35	604101	Mesozoic-Cenozoic	Oil	2,889	3,712	6,601	3,023	6,735	9,625	69
36	603401	Cretaceous Composite	Oil	93	37	130	2,959	2,995	3,089	4
37	603701	Cenomanian-Turonian-Tertiary Composite	Oil	0	0	0	2,938	2,938	2,938	0
38	110901	Terek-Caspian	Oil	752	2,738	3,490	2,829	5,567	6,319	55
39	205601	Tanezzuft-Illizi	Oil	2,286	1,384	3,670	2,814	4,198	6,484	57
40	200401	Madbi Amran/Qishn	Oil	649	1,284	1,933	2,740	4,025	4,673	41
41	202301	Paleozoic Qusaiba/Akkas/Abba/Mudawwara	Oil	269	944	1,213	2,632	3,577	3,845	32
42	207101	Sudr-Nubia	Oil	6,351	3,459	9,810	2,608	6,067	12,418	79
43	132201	North Sakhalin Neogene	Oil	754	1,428	2,182	2,582	4,010	4,764	46
44	207102	Maqna	Oil	22	133	155	2,579	2,712	2,734	6
45	101501	Volga-Ural Domanik-Paleozoic	Oil	42,584	21,288	63,872	2,507	23,795	66,379	96
46	394801	Dingo-Mungaroo/Barrow	Gas	489	660	1,149	2,249	2,909	3,398	34
47	606002	Lower Cretaceous	Oil	0	0	0	2,229	2,229	2,229	0
48	604501	Los Monos-Machareti	Oil	257	63	320	2,145	2,209	2,466	13
49	804301	Eocene-Miocene Composite	Oil	3,375	5,065	8,440	2,091	7,156	10,531	80
50	205402	Tanezzuft-Melrhir	Oil	0	6	6	1,875	1,881	1,881	0
51	521501	Egret-Hibernia	Oil	0	1,582	1,582	1,796	3,378	3,378	47
52	608101	Cretaceous-Tertiary	Oil	1,346	326	1,672	1,711	2,038	3,383	49
53	121001	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	Gas	1	2,005	2,006	1,611	3,616	3,617	55
54	610701	Tobago Trough Paleogene	Oil	8	2	11	1,536	1,538	1,546	1
55	602901	Neocomian to Turonian Composite	Oil	469	223	692	1,487	1,711	2,179	32
56	110903	Stavropol-Prikumsk	Oil	1,200	(-380)	820	1,407	(1,027)	2,227	37
57	201601	North Oman Huqf-Shu'aiba	Oil	1,259	1,426	2,685	1,304	2,731	3,990	67
58	605501	Neuquen Hybrid	Oil	1,532	838	2,370	1,290	2,128	3,659	65
59	120701	Yenisey Foldbelt Riphean-Craton Margin Riphean	Oil	0	34	34	1,213	1,246	1,246	3
60	391003	Jurassic/Early Cretaceous-Mesozoic	Oil	123	378	502	1,146	1,524	1,648	30
61	370301	Oligocene-Miocene Lacustrine	Oil	1,459	1,557	3,017	1,127	2,684	4,143	73
62	100901	Dnieper-Donets Paleozoic	Gas	110	1,501	1,611	1,098	2,599	2,709	59
63	391301	Late Jurassic/Early Cretaceous-Mesozoic	Gas	19	27	46	1,055	1,083	1,101	4
64	606301	Lower Cretaceous Marine	Oil	0	10	10	1,031	1,041	1,041	1
65	314401	Qingshankou-Putaohua/Shuertu	Oil	12,399	3,171	15,570	1,026	4,198	16,596	94
66	718301	Cretaceous Composite	Oil	74	162	236	1,004	1,166	1,240	19
67	105001	South and North Barents Triassic-Jurassic	Gas	0	51	51	955	1,006	1,007	5
68	380801	Brown Shale-Sihapas	Oil	8,349	4,868	13,217	899	5,768	14,117	94
69	406102	Dysodile Schist-Tertiary	Oil	2,832	1,283	4,115	842	2,125	4,957	83
70	205401	Tanezzuft-Oued Mya	Oil	5,872	4,971	10,843	830	5,801	11,673	93

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
71	115001	Buzachi Arch and Surrounding Areas Composite	Oil	459	1,827	2,286	814	2,641	3,100	74
72	720304	Cuanza Composite	Oil	86	20	107	790	810	897	12
73	201401	North Oman Huqf/'Q'-Haushi	Oil	715	1,313	2,028	743	2,056	2,771	73
74	720301	Melania-Gamba	Oil	708	1,044	1,752	727	1,772	2,480	71
75	804801	Eocene to Miocene Composite	Gas	528	188	716	724	912	1,441	50
76	609001	La Luna-La Paz	Oil	1,915	512	2,426	709	1,220	3,135	77
77	605901	Lower Inoceramus	Gas	595	620	1,216	704	1,325	1,920	63
78	204801	Bou Dabbous-Tertiary	Oil	481	1,633	2,114	667	2,300	2,782	76
79	110902	South Mangyshlak	Oil	2,406	2,835	5,241	651	3,486	5,893	89
80	370201	Sarawak Basin	Gas	168	629	797	529	1,159	1,327	60
81	524302	Duvernay-Leduc	Oil	8,153	1,306	9,459	501	1,807	9,960	95
82	605801	D-129	Oil	2,445	900	3,346	498	1,398	3,844	87
83	611701	Upper Jurassic-Neocomian	Oil	65	232	297	494	726	790	38
84	382801	Lahat/Talang Akar-Cenozoic	Oil	1,842	587	2,429	469	1,055	2,898	84
85	311501	Lucaogou-Karamay/Ulho/Pindequan	Oil	937	5,687	6,624	467	6,154	7,091	93
86	382401	Banuwati-Oligocene/Miocene	Oil	828	431	1,259	462	894	1,722	73
87	110801	Azov-Kuban Mesozoic-Cenozoic	Gas	1,273	(-750)	524	417	(-332)	941	56
88	204802	Jurassic-Cretaceous Composite	Oil	39	64	103	403	467	506	20
89	803401	Sylhet-Kopili/Barail-Tipam Composite	Oil	911	1,625	2,536	399	2,024	2,935	86
90	406801	Pre-Messinian	Gas	0	0	0	388	388	388	0
91	201602	Middle Cretaceous Natih	Oil	1,299	553	1,852	371	925	2,224	83
92	406002	Meride/Riva di Solto	Oil	78	254	332	360	614	692	48
93	404702	Mesozoic/Paleogene Composite	Oil	640	283	923	344	627	1,267	73
94	393001	Latrobe	Oil	3,077	784	3,860	310	1,093	4,170	93
95	115401	Amu-Darya Jurassic-Cretaceous	Gas	80	686	766	270	957	1,037	74
96	382201	Bampo-Cenozoic	Gas	496	178	674	213	391	887	76
97	608302	Cretaceous-Paleogene	Oil	118	53	171	200	252	370	46
98	404801	Greater Hungarian Plain Neogene	Oil	731	358	1,089	196	555	1,285	85
99	382402	Jatibarang/Talang Akar-Oligocene/Miocene	Oil	727	1,181	1,908	195	1,377	2,104	91
100	406101	Moesian Platform Composite	Oil	1,251	542	1,793	171	713	1,963	91
101	205803	Tanezzuft-Sbaa	Oil	0	284	284	162	446	446	64
102	701301	Cretaceous-Tertiary Composite	Oil	0	10	10	157	167	168	6
103	802601	Patala-Namal	Oil	204	121	324	145	266	469	69
104	403601	Carboniferous-Rotliegend	Gas	2,300	572	2,872	143	715	3,015	95
105	391001	Milligans-Carboniferous/Permian	Oil	0	15	15	140	155	155	10
106	115002	North Ustyurt Jurassic	Oil	0	80	80	139	220	220	37
107	312801	Yanchang-Yanan	Oil	81	602	683	138	740	821	83
108	394802	Locker-Mungaroo/Barrow	Gas	0	6	6	132	137	137	4
109	524303	Exshaw-Rundle	Oil	1,292	435	1,728	126	561	1,854	93
110	804201	Sembar-Goru/Ghazij	Gas	111	70	180	119	188	299	60
111	730301	Cretaceous Composite	Gas	0	0	0	116	116	116	0
112	404802	Zala-Drava-Sava Mesozoic/Neogene	Oil	836	265	1,101	114	379	1,215	91
113	524404	Lodgepole	Oil	2,239	539	2,778	111	650	2,889	96

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
114	370202	East Natuna	Gas	0	20	20	102	122	122	16
115	370302	Miocene Coaly Strata	Gas	58	533	592	101	634	693	85
116	311502	Jurassic Coal-Jurassic/Tertiary	Oil	16	193	210	96	289	306	69
117	524304	Combined Triassic/Jurassic	Oil	1,012	284	1,296	96	380	1,393	93
118	524301	Keg River-Keg River	Oil	835	176	1,011	84	260	1,095	92
119	604102	Paleozoic	Oil	0	0	0	74	74	74	0
120	205805	Tanezzuft-Benoud	Gas	16	72	88	72	144	160	55
121	804702	Jalangi-Sylhet/Burdwan Composite	NA	NA	NA	NA	64	NA	NA	NA
122	404806	Hungarian Paleogene	Oil	10	1	11	49	50	60	18
123	404703	Paleozoic Composite	Oil	0	1	1	47	47	47	1
124	101502	Belsk Basin	Gas	106	(-41)	65	42	(1)	106	61
125	804703	Jenam/Bhuban-Bokabil	Gas	3	2	4	39	41	43	10
126	608301	Neogene	Oil	4	0	4	37	37	41	11
127	524306	Second White Specks-Cardium	Oil	2,146	543	2,688	36	578	2,724	99
128	205802	Tanezzuft-Ahnet	Gas	0	1	1	34	35	35	3
129	205801	Tanezzuft-Timimoun	Gas	0	0	0	31	31	31	0
130	314202	Daanzhai-Daanzhai/Lianggaoshan	Oil	38	71	109	27	99	136	80
131	205806	Tanezzuft-Bechar/Abadla	Gas	0	0	0	16	16	16	0
132	205804	Tanezzuft-Mouydir	Gas	0	0	0	12	12	12	0
133	524403	Bakken	Oil	5	2	7	11	13	18	40
134	524402	Brightholme	Oil	11	4	14	8	11	22	66
135	524401	Yeoman	Oil	1	0	1	5	6	6	15
136	115003	North Ustyurt Paleozoic	NA	NA	NA	NA	0	NA	NA	NA
137	203002	Paleozoic-Permian/Triassic	Gas	0	0	0	0	0	0	NA
138	314201	Maokou/Longtang-Jialingjiang/Maokou/Huanglong	Gas	0	0	0	0	0	0	100
139	314204	Cambrian/Silurian Marine Shale-Dengying/Lower Paleozoic	Gas	9	(-8)	1	0	(-8)	1	100
140	314402	Jurassic Coal-Denglouku/Nongan	Gas	0	5	5	0	5	5	100
141	391002	Keyling/Hyland Bay-Permian	Gas	0	0	0	0	0	0	NA
142	404701	Isotopically Light Gas	Gas	1	1	1	0	1	1	100
143	404803	Danube Neogene	Gas	0	0	0	0	0	0	NA
144	404804	Transcarpathian Neogene	Gas	0	0	0	0	0	0	NA
145	405701	Transylvanian Composite	Gas	0	0	0	0	0	0	NA
146	406001	Porto Garibaldi	Gas	13	0	14	0	0	14	100
147	524305	Mannville-Upper Mannville	Gas	0	0	0	0	0	0	NA
148	602201	Neogene	NA	NA	NA	NA	0	NA	NA	NA
149	610301	Lower Cruse	Gas	0	20	20	0	20	20	100
NA	311503	Lucaogou/Jurassic Coal-Paleozoic/Mesozoic	NA	0	0	0	NA	NA	NA	NA
NA	312702	Carboniferous/Permian Coal-Paleozoic	NA	0	0	0	NA	NA	NA	NA
NA	312802	Taiyuan/Shanxi-Majiagou/Shihezi	NA	0	0	0	NA	NA	NA	NA
NA	314203	Xujiahe-Xujiahe/Shaximiao	NA	NA	NA	NA	NA	NA	NA	NA
NA	382403	Tertiary-Parigi	NA	0	0	0	NA	NA	NA	NA
NA	382404	Tertiary-Cenozoic	NA	0	0	0	NA	NA	NA	NA

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NA	404805	Central Carpathian Paleogene	NA	NA	NA	NA	NA	NA	NA	NA
NA	521502	Mesozoic Composite	NA	0	0	0	NA	NA	NA	NA
NA	605802	Aguada Bandera	NA	0	0	0	NA	NA	NA	NA
NA	804701	Permian Coal	NA	0	0	0	NA	NA	NA	NA

**Table AR-3b. Total petroleum systems ranked by mean (expected) undiscovered gas.**

[BCFG, billion cubic feet of gas. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative gas is the reported volume of gas that has been produced. Remaining gas is the calculated remaining reserves; the difference between known and cumulative gas. Known gas is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered gas is the mean volume estimated in World Petroleum Assessment 2000. Future gas is the remaining gas plus estimated mean undiscovered gas. Gas endowment is the known gas plus estimated mean undiscovered gas volumes. Discovery maturity is the percentage of gas discovered (known gas) with respect to gas endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. NA means not applicable; it is shown for all values except mean undiscovered gas if only one field is present in the total petroleum system; and for major commodity, mean undiscovered volume, future volume, endowment, and discovery maturity of total petroleum systems containing only unassessed assessment units.]

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
1	117403	Northern West Siberian Mesozoic Composite	Gas	188,736	978,552	1,167,288	540,483	1,519,035	1,707,771	68
2	202101	Central Arabia Qusaiba Paleozoic	Oil	0	79,115	79,115	383,339	462,454	462,454	17
3	201903	Silurian Qusaiba	Gas	1,018	451,012	452,030	346,892	797,903	798,922	57
4	105001	South and North Barents Triassic-Jurassic	Gas	0	78,143	78,143	266,618	344,761	344,761	23
5	203001	Zagros-Mesopotamian Cretaceous-Tertiary	Oil	25,260	467,978	493,238	197,597	665,575	690,835	71
6	111201	Oligocene-Miocene Maykop/Diatom	Oil	8,591	27,403	35,994	173,310	200,713	209,304	17
7	401701	Upper Jurassic Spekk	Oil	0	15,662	15,662	165,201	180,863	180,863	9
8	115401	Amu-Darya Jurassic-Cretaceous	Gas	78,540	152,073	230,614	163,650	315,724	394,264	58
9	719201	Tertiary Niger Delta (Agbada/Akata)	Oil	6,232	87,579	93,811	132,716	220,295	226,526	41
10	101601	Paleozoic North Caspian	Oil	1,745	155,231	156,976	119,051	274,282	276,027	57
11	117401	Bazhenov-Neocomian	Oil	29,287	68,295	97,582	96,934	165,229	194,516	50
12	520001	Permian/Upper Jurassic Composite	Oil	0	0	0	80,709	80,709	80,709	0
13	603601	Guaratiba-Guaruja (Cretaceous) Composite	Oil	12	1,113	1,125	80,547	81,660	81,672	1
14	720303	Congo Delta Composite	Oil	838	8,605	9,443	69,582	78,186	79,025	12
15	203002	Paleozoic-Permian/Triassic	Gas	0	131,220	131,220	69,031	200,251	200,251	66
16	381701	Kutei Basin	Oil	8,711	36,762	45,473	64,757	101,519	110,230	41
17	202301	Paleozoic Qusaiba/Akkas/Abba/Mudawwara	Oil	47	1,614	1,661	64,510	66,124	66,172	3
18	315401	Ordovician/Jurassic-Phanerozoic	Oil	208	5,572	5,780	59,939	65,511	65,719	9
19	201902	Jurassic Hanifa/Diyab-Arab	Oil	1,951	75,561	77,512	58,515	134,076	136,027	57
20	132201	North Sakhalin Neogene	Oil	162	22,221	22,383	57,451	79,673	79,835	28
21	394801	Dingo-Mungaroo/Barrow	Gas	1,845	46,400	48,245	56,380	102,780	104,626	46
22	609802	Upper Cretaceous/Tertiary	Oil	3,156	12,667	15,822	52,009	64,676	67,832	23
23	406801	Pre-Messinian	Gas	0	0	0	51,210	51,210	51,210	0
24	804703	Jenam/Bhuban-Bokabil	Gas	2,669	9,620	12,289	50,479	60,098	62,767	20
25	207102	Maqna	Oil	10	3,517	3,527	49,820	53,338	53,347	7
26	530501	Pimienta-Tamabra	Oil	17,609	33,213	50,822	49,272	82,485	100,094	51
27	121001	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	Gas	0	30,210	30,210	46,039	76,249	76,249	40

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
28	602101	Cenomanian-Turonian	Oil	0	0	0	42,058	42,058	42,058	0
29	609801	Querecual	Oil	18,897	93,399	112,296	41,552	134,951	153,848	73
30	402501	Kimmeridgian Shales	Oil	31,053	127,861	158,914	37,745	165,606	196,659	81
31	100801	Domanik-Paleozoic	Oil	12,374	24,259	36,632	34,525	58,784	71,158	51
32	603401	Cretaceous Composite	Oil	42	180	222	34,287	34,467	34,509	1
33	202102	Arabian Sub-Basin Tuwaiq/Hanifa-Arab	Oil	24,821	250,474	275,295	34,046	284,520	309,341	89
34	604501	Los Monos-Machareti	Oil	6,928	10,058	16,985	31,107	41,165	48,092	35
35	602201	Neogene	NA	NA	NA	NA	29,840	NA	NA	NA
36	804201	Sembar-Goru/Ghazij	Gas	15,101	20,272	35,373	29,325	49,596	64,697	55
37	205601	Tanezzuft-Illizi	Oil	750	44,311	45,061	27,785	72,096	72,846	62
38	110901	Terek-Caspian	Oil	192	7,648	7,840	27,779	35,427	35,619	22
39	403601	Carboniferous-Rotliegend	Gas	124,048	98,111	222,159	25,790	123,901	247,948	90
40	100901	Dnieper-Donets Paleozoic	Gas	35,453	23,645	59,098	24,051	47,697	83,149	71
41	370301	Oligocene-Miocene Lacustrine	Oil	454	23,794	24,248	23,696	47,491	47,944	51
42	370101	Brunei-Sabah	Oil	9,188	27,012	36,200	23,226	50,238	59,426	61
43	202302	Jurassic Gotnia/Barsarin/Sargelu/Najmah	Oil	0	100	100	22,942	23,042	23,042	0
44	603701	Cenomanian-Turonian-Tertiary Composite	Oil	0	0	0	22,806	22,806	22,806	0
45	201901	Cretaceous Thamama/Wasia	Oil	6,342	95,758	102,100	22,311	118,069	124,410	82
46	804801	Eocene to Miocene Composite	Gas	722	9,298	10,020	20,521	29,819	30,541	33
47	610301	Lower Cruse	Gas	0	22,600	22,600	20,103	42,703	42,703	53
48	391301	Late Jurassic/Early Cretaceous-Mesozoic	Gas	0	17,960	17,960	20,093	38,053	38,053	47
49	603501	Lagoa Feia-Carapebus	Oil	303	5,941	6,244	19,691	25,632	25,935	24
50	382801	Lahat/Talang Akar-Cenozoic	Oil	3,125	7,080	10,204	18,250	25,330	28,455	36
51	609901	La Luna/Maracaibo	Oil	979	25,722	26,701	17,576	43,298	44,277	60
52	370201	Sarawak Basin	Gas	3,731	33,388	37,119	17,284	50,672	54,403	68
53	120701	Yenisey Foldbelt Riphean-Craton Margin Riphean	Oil	0	5,052	5,052	16,983	22,035	22,035	23
54	200401	Madbi Amran/Qishn	Oil	0	17,120	17,120	16,982	34,102	34,102	50
55	406001	Porto Garibaldi	Gas	9,373	9,102	18,475	16,267	25,369	34,741	53
56	382201	Bampo-Cenozoic	Gas	13,977	11,582	25,559	15,123	26,705	40,682	63
57	204301	Sirte-Zelten	Oil	5,479	32,288	37,767	14,984	47,272	52,752	72
58	605901	Lower Inoceramus	Gas	10,053	14,754	24,807	14,040	28,794	38,848	64
59	720302	Azile-Senonian	Oil	203	1,632	1,835	13,230	14,862	15,065	12
60	804301	Eocene-Miocene Composite	Oil	6,228	17,965	24,193	12,944	30,909	37,137	65
61	605501	Neuquen Hybrid	Oil	7,636	13,068	20,704	12,416	25,483	33,119	63
62	110801	Azov-Kuban Mesozoic-Cenozoic	Gas	7,586	11,118	18,704	12,252	23,369	30,955	60
63	205403	Tanezzuft-Ghadames	Oil	579	15,905	16,484	12,035	27,940	28,519	58
64	610701	Tobago Trough Paleogene	Oil	16	7	22	11,957	11,963	11,979	0
65	391003	Jurassic/Early Cretaceous-Mesozoic	Oil	0	7,526	7,526	11,346	18,872	18,872	40
66	606301	Lower Cretaceous Marine	Oil	0	75	75	11,327	11,402	11,402	1
67	391002	Keyling/Hyland Bay-Permian	Gas	0	5,730	5,730	10,995	16,725	16,725	34
68	207101	Sudr-Nubia	Oil	840	5,155	5,995	10,192	15,347	16,186	37
69	201401	North Oman Huqf/Q'-Haushi	Oil	149	20,189	20,339	10,112	30,301	30,450	67
70	718301	Cretaceous Composite	Oil	46	1,903	1,949	10,071	11,974	12,020	16



Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
71	110903	Stavropol-Prikumsk	Oil	9,670	3,829	13,499	9,644	13,473	23,143	58
72	521501	Egret-Hibernia	Oil	0	2,406	2,406	8,893	11,298	11,298	21
73	606001	Neocomian Lacustrine	Oil	0	0	0	8,871	8,871	8,871	0
74	312701	Shahejie-Shahejie/Guantao/Wumishan	Oil	2,987	12,685	15,672	8,514	21,199	24,186	65
75	115003	North Ustyurt Paleozoic	NA	NA	NA	NA	8,500	NA	NA	NA
76	602901	Neocomian to Turonian Composite	Oil	348	1,059	1,407	8,334	9,393	9,741	14
77	394802	Locker-Mungaroo/Barrow	Gas	27	8,075	8,102	8,331	16,406	16,432	49
78	201601	North Oman Huqf-Shu'aiba	Oil	536	7,097	7,633	8,206	15,303	15,839	48
79	606002	Lower Cretaceous	Oil	0	0	0	7,710	7,710	7,710	0
80	382402	Jatibarang/Talang Akar-Oligocene/Miocene	Oil	794	6,529	7,322	6,579	13,108	13,901	53
81	609601	Gacheta-Mirador	Oil	139	15,175	15,314	6,217	21,391	21,530	71
82	314201	Maokou/Longtang-Jialingjiang/Maokou/Huanglong	Gas	5,709	5,364	11,072	6,137	11,501	17,210	64
83	393001	Latrobe	Oil	3,501	6,274	9,775	5,658	11,932	15,433	63
84	117402	Togur-Tyumen	Oil	443	4,738	5,180	5,516	10,254	10,697	48
85	205402	Tanezzuft-Melhrir	Oil	0	125	125	4,887	5,012	5,012	2
86	608101	Cretaceous-Tertiary	Oil	1,951	941	2,892	4,795	5,736	7,687	38
87	804702	Jalangi-Sylhet/Burdwan Composite	NA	NA	NA	NA	4,613	NA	NA	NA
88	524305	Mannville-Upper Mannville	Gas	17,171	13,560	30,731	4,597	18,157	35,328	87
89	380801	Brown Shale-Sihapas	Oil	910	2,956	3,866	4,078	7,034	7,944	49
90	314204	Cambrian/Silurian Marine Shale-Dengying/Lower Paleozoic	Gas	491	859	1,350	4,036	4,895	5,386	25
91	605801	D-129	Oil	1,667	1,898	3,565	3,774	5,672	7,339	49
92	370302	Miocene Coaly Strata	Gas	38	23,863	23,901	3,768	27,631	27,669	86
93	720301	Melania-Gamba	Oil	62	780	843	3,674	4,455	4,517	19
94	730301	Cretaceous Composite	Gas	0	6,015	6,015	3,603	9,618	9,618	63
95	609001	La Luna-La Paz	Oil	2,310	2,692	5,002	3,292	5,985	8,294	60
96	524302	Duvernay-Leduc	Oil	9,050	5,307	14,357	3,224	8,531	17,581	82
97	314402	Jurassic Coal-Denglouku/Nongan	Gas	0	145	145	3,212	3,357	3,357	4
98	205802	Tanezzuft-Ahnet	Gas	0	3,117	3,117	2,973	6,090	6,090	51
99	204801	Bou Dabbous-Tertiary	Oil	37	15,472	15,509	2,746	18,218	18,256	85
100	524303	Exshaw-Rundle	Oil	14,851	6,717	21,568	2,663	9,380	24,232	89
101	406102	Dysodile Schist-Tertiary	Oil	1,580	3,468	5,048	2,618	6,086	7,666	66
102	205805	Tanezzuft-Benoud	Gas	4,980	100,070	105,050	2,541	102,611	107,591	98
103	314401	Qingshankou-Putaohua/Shuertu	Oil	3	1,594	1,598	2,494	4,088	4,091	39
104	404801	Greater Hungarian Plain Neogene	Oil	5,436	4,221	9,657	2,395	6,616	12,052	80
105	101501	Volga-Ural Domanik-Paleozoic	Oil	15,846	80,612	96,458	2,394	83,006	98,852	98
106	404702	Mesozoic/Paleogene Composite	Oil	3,360	2,033	5,393	2,345	4,378	7,738	70
107	205401	Tanezzuft-Oued Mya	Oil	68	8,905	8,973	2,341	11,246	11,314	79
108	404701	Isotopically Light Gas	Gas	5,455	5,205	10,660	2,321	7,525	12,980	82
109	204802	Jurassic-Cretaceous Composite	Oil	6	1,295	1,301	2,280	3,575	3,581	36
110	110902	South Mangyshlak	Oil	28	5,679	5,707	2,262	7,941	7,969	72
111	115002	North Ustyurt Jurassic	Oil	0	1,450	1,450	2,180	3,630	3,630	40
112	524304	Combined Triassic/Jurassic	Oil	4,584	5,996	10,580	2,166	8,163	12,747	83

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
113	405701	Transylvanian Composite	Gas	21,194	9,537	30,731	2,083	11,620	32,814	94
114	370202	East Natuna	Gas	0	45,045	45,045	1,963	47,008	47,008	96
115	524301	Keg River-Keg River	Oil	4,589	2,484	7,073	1,776	4,260	8,849	80
116	406002	Meride/Riva di Solto	Oil	154	257	412	1,698	1,955	2,109	20
117	720304	Cuanza Composite	Oil	46	13	59	1,558	1,571	1,617	4
118	101502	Belsk Basin	Gas	571	2,067	2,638	1,547	3,615	4,185	63
119	803401	Sylhet-Kopili/Barail-Tipam Composite	Oil	2,039	4,495	6,534	1,178	5,673	7,712	85
120	391001	Milligans-Carboniferous/Permian	Oil	0	48	48	1,151	1,199	1,199	4
121	404802	Zala-Drava-Sava Mesozoic/Neogene	Oil	1,082	2,847	3,929	1,151	3,998	5,080	77
122	205801	Tanezzuft-Timimoun	Gas	0	4,200	4,200	1,128	5,328	5,328	79
123	524306	Second White Specks-Cardium	Oil	16,010	10,439	26,449	1,126	11,565	27,574	96
124	311502	Jurassic Coal-Jurassic/Tertiary	Oil	10	332	342	950	1,281	1,292	26
125	382401	Banuwati-Oligocene/Miocene	Oil	233	381	614	874	1,255	1,488	41
126	701301	Cretaceous-Tertiary Composite	Oil	4	45	49	856	901	905	5
127	604102	Paleozoic	Oil	0	0	0	841	841	841	0
128	604101	Mesozoic-Cenozoic	Oil	661	955	1,616	755	1,711	2,372	68
129	205803	Tanezzuft-Sbaa	Oil	0	1,490	1,490	645	2,134	2,134	70
130	611701	Upper Jurassic-Neocomian	Oil	20	77	96	592	668	688	14
131	406101	Moesian Platform Composite	Oil	1,546	671	2,217	561	1,232	2,778	80
132	802601	Patala-Namal	Oil	807	1,174	1,981	551	1,726	2,533	78
133	608301	Neogene	Oil	0	340	340	471	811	811	42
134	205806	Tanezzuft-Bechar/Abadla	Gas	0	0	0	441	441	441	0
135	404703	Paleozoic Composite	Oil	0	233	233	383	616	616	38
136	201602	Middle Cretaceous Natih	Oil	616	2,485	3,100	363	2,848	3,463	90
137	311501	Lucaogou-Karamay/Ulho/Pindequan	Oil	491	1,757	2,248	346	2,104	2,594	87
138	404806	Hungarian Paleogene	Oil	15	1	16	339	340	355	4
139	205804	Tanezzuft-Mouydir	Gas	0	0	0	292	292	292	0
140	608302	Cretaceous-Paleogene	Oil	148	10	158	224	233	382	41
141	404803	Danube Neogene	Gas	7	240	247	146	386	393	63
142	314202	Daanzhai-Daanzhai/Lianggaoshan	Oil	50	90	140	137	227	278	51
143	404804	Transcarpathian Neogene	Gas	0	261	261	112	373	373	70
144	115001	Buzachi Arch and Surrounding Areas Composite	Oil	0	943	943	89	1,033	1,033	91
145	524404	Lodgepole	Oil	728	166	893	63	228	956	93
146	312801	Yanchang-Yanan	Oil	13	7	20	20	27	40	50
147	524402	Brightholme	Oil	8	3	11	5	8	16	67
148	524401	Yeoman	Oil	0	0	0	4	4	4	3
149	524403	Bakken	Oil	0	0	0	3	3	4	9
NA	311503	Lucaogou/Jurassic Coal-Paleozoic/Mesozoic	NA	0	0	0	NA	NA	NA	NA
NA	312702	Carboniferous/Permian Coal-Paleozoic	NA	0	0	0	NA	NA	NA	NA
NA	312802	Taiyuan/Shanxi-Majiagou/Shihezi	NA	0	5,590	5,590	NA	NA	NA	NA
NA	314203	Xujiahe-Xujiahe/Shaximiao	NA	NA	NA	NA	NA	NA	NA	NA
NA	382403	Tertiary-Parigi	NA	0	119	119	NA	NA	NA	NA
NA	382404	Tertiary-Cenozoic	NA	0	0	0	NA	NA	NA	NA

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
NA	404805	Central Carpathian Paleogene	NA	NA	NA	NA	NA	NA	NA	NA
NA	521502	Mesozoic Composite	NA	0	4,224	4,224	NA	NA	NA	NA
NA	605802	Aguada Bandera	NA	0	0	0	NA	NA	NA	NA
NA	804701	Permian Coal	NA	0	0	0	NA	NA	NA	NA

**Table AR-3c. Total petroleum systems ranked by conventional oil endowment.**

[MMBO, million barrels of oil. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative oil is the reported volume of oil that has been produced. Remaining oil is the calculated remaining reserves; the difference between known and cumulative oil. Known oil is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered oil is the mean volume estimated in World Petroleum Assessment 2000. Future oil is the remaining oil plus estimated mean undiscovered oil. Oil endowment is the known oil plus estimated mean undiscovered oil volumes. Discovery maturity is the percentage of oil discovered (known oil) with respect to oil endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. Negative values result from inconsistent reporting of cumulative and known volumes. Values in parentheses ( ) are questionable data. NA means not applicable; it is shown for all values except mean undiscovered oil if only one field is present in the total petroleum system; and for major commodity, mean undiscovered volume, future volume, endowment, and discovery maturity of total petroleum systems containing only unassessed assessment units.]

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
1	203001	Zagros-Mesopotamian Cretaceous-Tertiary	Oil	100,467	271,760	372,226	94,516	366,275	466,742	80
2	202102	Arabian Sub-Basin Tuwaiq/Hanifa-Arab	Oil	63,853	135,142	198,995	41,703	176,845	240,698	83
3	117401	Bazhenov-Neocomian	Oil	45,819	72,153	117,972	42,947	115,100	160,919	73
4	201901	Cretaceous Thamama/Wasia	Oil	13,544	57,686	71,231	8,979	66,665	80,209	89
5	719201	Tertiary Niger Delta (Agbada/Akata)	Oil	16,598	17,925	34,522	40,487	58,412	75,010	46
6	101501	Volga-Ural Domanik-Paleozoic	Oil	42,584	21,288	63,872	2,507	23,795	66,379	96
7	530501	Pimienta-Tamabra	Oil	22,139	22,273	44,412	20,569	42,841	64,980	68
8	609901	La Luna/Maracaibo	Oil	35,581	13,491	49,072	8,183	21,675	57,256	86
9	402501	Kimmeridgian Shales	Oil	22,467	21,427	43,895	13,098	34,526	56,993	77
10	520001	Permian/Upper Jurassic Composite	Oil	0	0	0	47,148	47,148	47,148	0
11	204301	Sirte-Zelten	Oil	13,986	23,087	37,072	6,854	29,941	43,927	84
12	101601	Paleozoic North Caspian	Oil	822	9,987	10,808	23,320	33,307	34,128	32
13	609801	Querecual	Oil	11,027	15,729	26,756	7,231	22,960	33,988	79
14	201902	Jurassic Hanifa/Diyab-Arab	Oil	5,688	13,325	19,013	14,478	27,803	33,491	57
15	111201	Oligocene-Miocene Maykop/Diatom	Oil	11,681	5,758	17,438	15,725	21,483	33,163	53
16	720303	Congo Delta Composite	Oil	3,693	6,052	9,745	23,198	29,250	32,943	30
17	312701	Shahejie-Shahejie/Guantao/Wumishan	Oil	10,415	14,139	24,553	4,412	18,550	28,965	85
18	603501	Lagoa Feia-Carapebus	Oil	1,769	8,287	10,056	16,293	24,580	26,349	38
19	202101	Central Arabia Qusaiba Paleozoic	Oil	84	6,292	6,376	19,190	25,481	25,566	25
20	603601	Guaratiba-Guaruja (Cretaceous) Composite	Oil	6	279	285	23,209	23,488	23,494	1
21	117402	Togur-Tyumen	Oil	645	11,111	11,756	7,474	18,584	19,230	61
22	100801	Domanik-Paleozoic	Oil	3,346	9,723	13,069	5,170	14,892	18,239	72
23	314401	Qingshankou-Putaohua/Shuertu	Oil	12,399	3,171	15,570	1,026	4,198	16,596	94
24	602101	Cenomanian-Turonian	Oil	17	46	63	15,247	15,293	15,310	0
25	117403	Northern West Siberian Mesozoic Composite	Gas	66	10,119	10,185	4,814	14,933	14,999	68
26	380801	Brown Shale-Sihapas	Oil	8,349	4,868	13,217	899	5,768	14,117	94
27	201903	Silurian Qusaiba	Gas	41	514	555	13,235	13,749	13,790	4
28	207101	Sudr-Nubia	Oil	6,351	3,459	9,810	2,608	6,067	12,418	79

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
29	205401	Tanezzuft-Oued Mya	Oil	5,872	4,971	10,843	830	5,801	11,673	93
30	804301	Eocene-Miocene Composite	Oil	3,375	5,065	8,440	2,091	7,156	10,531	80
31	370101	Brunei-Sabah	Oil	3,953	2,945	6,898	3,390	6,335	10,288	67
32	524302	Duvernay-Leduc	Oil	8,153	1,306	9,459	501	1,807	9,960	95
33	604101	Mesozoic-Cenozoic	Oil	2,889	3,712	6,601	3,023	6,735	9,625	69
34	401701	Upper Jurassic Spekk	Oil	76	2,585	2,660	6,538	9,123	9,199	29
35	609601	Gacheta-Mirador	Oil	1,179	4,224	5,402	3,631	7,855	9,033	60
36	205403	Tanezzuft-Ghadames	Oil	1,629	2,909	4,538	4,461	7,370	8,999	50
37	609802	Upper Cretaceous/Tertiary	Oil	2,780	667	3,447	4,644	5,311	8,091	43
38	381701	Kutei Basin	Oil	2,195	684	2,879	5,145	5,829	8,024	36
39	720302	Azile-Senonian	Oil	1,278	836	2,114	5,031	5,867	7,145	30
40	311501	Lucaogou-Karamay/Ulho/Pindequan	Oil	937	5,687	6,624	467	6,154	7,091	93
41	202302	Jurassic Gotnia/Barsarin/Sargelu/Najmah	Oil	94	379	474	6,569	6,948	7,042	7
42	315401	Ordovician/Jurassic-Phanerozoic	Oil	45	658	704	5,948	6,606	6,652	11
43	205601	Tanezzuft-Ilizi	Oil	2,286	1,384	3,670	2,814	4,198	6,484	57
44	110901	Terek-Caspian	Oil	752	2,738	3,490	2,829	5,567	6,319	55
45	110902	South Mangyshlak	Oil	2,406	2,835	5,241	651	3,486	5,893	89
46	406102	Dysodile Schist-Tertiary	Oil	2,832	1,283	4,115	842	2,125	4,957	83
47	132201	North Sakhalin Neogene	Oil	754	1,428	2,182	2,582	4,010	4,764	46
48	200401	Madbi Amran/Qishn	Oil	649	1,284	1,933	2,740	4,025	4,673	41
49	393001	Latrobe	Oil	3,077	784	3,860	310	1,093	4,170	93
50	370301	Oligocene-Miocene Lacustrine	Oil	1,459	1,557	3,017	1,127	2,684	4,143	73
51	201601	North Oman Huqf-Shu'aiba	Oil	1,259	1,426	2,685	1,304	2,731	3,990	67
52	202301	Paleozoic Qusaiba/Akkas/Abba/Mudawwara	Oil	269	944	1,213	2,632	3,577	3,845	32
53	605801	D-129	Oil	2,445	900	3,346	498	1,398	3,844	87
54	605501	Neuquen Hybrid	Oil	1,532	838	2,370	1,290	2,128	3,659	65
55	121001	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	Gas	1	2,005	2,006	1,611	3,616	3,617	55
56	606001	Neocomian Lacustrine	Oil	0	0	0	3,603	3,603	3,603	0
57	394801	Dingo-Mungaroo/Barrow	Gas	489	660	1,149	2,249	2,909	3,398	34
58	608101	Cretaceous-Tertiary	Oil	1,346	326	1,672	1,711	2,038	3,383	49
59	521501	Egret-Hibernia	Oil	0	1,582	1,582	1,796	3,378	3,378	47
60	609001	La Luna-La Paz	Oil	1,915	512	2,426	709	1,220	3,135	77
61	115001	Buzachi Arch and Surrounding Areas Composite	Oil	459	1,827	2,286	814	2,641	3,100	74
62	603401	Cretaceous Composite	Oil	93	37	130	2,959	2,995	3,089	4
63	403601	Carboniferous-Rotliegend	Gas	2,300	572	2,872	143	715	3,015	95
64	603701	Cenomanian-Turonian-Tertiary Composite	Oil	0	0	0	2,938	2,938	2,938	0
65	803401	Sylhet-Kopili/Barail-Tipam Composite	Oil	911	1,625	2,536	399	2,024	2,935	86
66	382801	Lahat/Talang Akar-Cenozoic	Oil	1,842	587	2,429	469	1,055	2,898	84
67	524404	Lodgepole	Oil	2,239	539	2,778	111	650	2,889	96
68	204801	Bou Dabbous-Tertiary	Oil	481	1,633	2,114	667	2,300	2,782	76
69	201401	North Oman Huqf/Q'-Haushi	Oil	715	1,313	2,028	743	2,056	2,771	73
70	207102	Maqna	Oil	22	133	155	2,579	2,712	2,734	6

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
71	524306	Second White Specks-Cardium	Oil	2,146	543	2,688	36	578	2,724	99
72	100901	Dnieper-Donets Paleozoic	Gas	110	1,501	1,611	1,098	2,599	2,709	59
73	720301	Melania-Gamba	Oil	708	1,044	1,752	727	1,772	2,480	71
74	604501	Los Monos-Machareti	Oil	257	63	320	2,145	2,209	2,466	13
75	606002	Lower Cretaceous	Oil	0	0	0	2,229	2,229	2,229	0
76	110903	Stavropol-Prikumsk	Oil	1,200	(-380)	820	1,407	(1,027)	2,227	37
77	201602	Middle Cretaceous Natih	Oil	1,299	553	1,852	371	925	2,224	83
78	602901	Neocomian to Turonian Composite	Oil	469	223	692	1,487	1,711	2,179	32
79	382402	Jatibarang/Talang Akar-Oligocene/Miocene	Oil	727	1,181	1,908	195	1,377	2,104	91
80	406101	Moesian Platform Composite	Oil	1,251	542	1,793	171	713	1,963	91
81	605901	Lower Inoceramus	Gas	595	620	1,216	704	1,325	1,920	63
82	205402	Tanezzuft-Melhrir	Oil	0	6	6	1,875	1,881	1,881	0
83	524303	Exshaw-Rundle	Oil	1,292	435	1,728	126	561	1,854	93
84	382401	Banuwati-Oligocene/Miocene	Oil	828	431	1,259	462	894	1,722	73
85	391003	Jurassic/Early Cretaceous-Mesozoic	Oil	123	378	502	1,146	1,524	1,648	30
86	610701	Tobago Trough Paleogene	Oil	8	2	11	1,536	1,538	1,546	1
87	804801	Eocene to Miocene Composite	Gas	528	188	716	724	912	1,441	50
88	524304	Combined Triassic/Jurassic	Oil	1,012	284	1,296	96	380	1,393	93
89	370201	Sarawak Basin	Gas	168	629	797	529	1,159	1,327	60
90	404801	Greater Hungarian Plain Neogene	Oil	731	358	1,089	196	555	1,285	85
91	404702	Mesozoic/Paleogene Composite	Oil	640	283	923	344	627	1,267	73
92	120701	Yenisey Foldbelt Riphean-Craton Margin Riphean	Oil	0	34	34	1,213	1,246	1,246	3
93	718301	Cretaceous Composite	Oil	74	162	236	1,004	1,166	1,240	19
94	404802	Zala-Drava-Sava Mesozoic/Neogene	Oil	836	265	1,101	114	379	1,215	91
95	391301	Late Jurassic/Early Cretaceous-Mesozoic	Gas	19	27	46	1,055	1,083	1,101	4
96	524301	Keg River-Keg River	Oil	835	176	1,011	84	260	1,095	92
97	606301	Lower Cretaceous Marine	Oil	0	10	10	1,031	1,041	1,041	1
98	115401	Amu-Darya Jurassic-Cretaceous	Gas	80	686	766	270	957	1,037	74
99	105001	South and North Barents Triassic-Jurassic	Gas	0	51	51	955	1,006	1,007	5
100	110801	Azov-Kuban Mesozoic-Cenozoic	Gas	1,273	(-750)	524	417	(-332)	941	56
101	720304	Cuanza Composite	Oil	86	20	107	790	810	897	12
102	382201	Bampo-Cenozoic	Gas	496	178	674	213	391	887	76
103	312801	Yanchang-Yanan	Oil	81	602	683	138	740	821	83
104	611701	Upper Jurassic-Neocomian	Oil	65	232	297	494	726	790	38
105	370302	Miocene Coaly Strata	Gas	58	533	592	101	634	693	85
106	406002	Meride/Riva di Solto	Oil	78	254	332	360	614	692	48
107	204802	Jurassic-Cretaceous Composite	Oil	39	64	103	403	467	506	20
108	802601	Patala-Namal	Oil	204	121	324	145	266	469	69
109	205803	Tanezzuft-Sbaa	Oil	0	284	284	162	446	446	64
110	406801	Pre-Messinian	Gas	0	0	0	388	388	388	0
111	608302	Cretaceous-Paleogene	Oil	118	53	171	200	252	370	46
112	311502	Jurassic Coal-Jurassic/Tertiary	Oil	16	193	210	96	289	306	69
113	804201	Sembar-Goru/Ghazij	Gas	111	70	180	119	188	299	60

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
114	115002	North Ustyurt Jurassic	Oil	0	80	80	139	220	220	37
115	701301	Cretaceous-Tertiary Composite	Oil	0	10	10	157	167	168	6
116	205805	Tanezzuft-Benoud	Gas	16	72	88	72	144	160	55
117	391001	Milligans-Carboniferous/Permian	Oil	0	15	15	140	155	155	10
118	394802	Locker-Mungaroo/Barrow	Gas	0	6	6	132	137	137	4
119	314202	Daanzhai-Daanzhai/Lianggaoshan	Oil	38	71	109	27	99	136	80
120	370202	East Natuna	Gas	0	20	20	102	122	122	16
121	730301	Cretaceous Composite	Gas	0	0	0	116	116	116	0
122	101502	Belsk Basin	Gas	106	(-41)	65	42	(1)	106	61
123	604102	Paleozoic	Oil	0	0	0	74	74	74	0
124	404806	Hungarian Paleogene	Oil	10	1	11	49	50	60	18
125	404703	Paleozoic Composite	Oil	0	1	1	47	47	47	1
126	804703	Jenam/Bhuban-Bokabil	Gas	3	2	4	39	41	43	10
127	608301	Neogene	Oil	4	0	4	37	37	41	11
128	205802	Tanezzuft-Ahnet	Gas	0	1	1	34	35	35	3
129	205801	Tanezzuft-Timimoun	Gas	0	0	0	31	31	31	0
130	524402	Brightholme	Oil	11	4	14	8	11	22	66
131	610301	Lower Cruse	Gas	0	20	20	0	20	20	100
132	524403	Bakken	Oil	5	2	7	11	13	18	40
133	205806	Tanezzuft-Bechar/Abadla	Gas	0	0	0	16	16	16	0
134	406001	Porto Garibaldi	Gas	13	0	14	0	0	14	100
135	205804	Tanezzuft-Mouydir	Gas	0	0	0	12	12	12	0
136	524401	Yeoman	Oil	1	0	1	5	6	6	15
137	314402	Jurassic Coal-Denglouku/Nongan	Gas	0	5	5	0	5	5	100
138	314204	Cambrian/Silurian Marine Shale-Dengying/Lower Paleozoic	Gas	9	(-8)	1	0	(-8)	1	100
139	404701	Isotopically Light Gas	Gas	1	1	1	0	1	1	100
140	203002	Paleozoic-Permian/Triassic	Gas	0	0	0	0	0	0	NA
141	314201	Maokou/Longtang-Jialingjiang/Maokou/Huanglong	Gas	0	0	0	0	0	0	100
142	391002	Keyling/Hyland Bay-Permian	Gas	0	0	0	0	0	0	NA
143	404803	Danube Neogene	Gas	0	0	0	0	0	0	NA
144	404804	Transcarpathian Neogene	Gas	0	0	0	0	0	0	NA
145	405701	Transylvanian Composite	Gas	0	0	0	0	0	0	NA
146	524305	Mannville-Upper Mannville	Gas	0	0	0	0	0	0	NA
NA	115003	North Ustyurt Paleozoic	NA	NA	NA	NA	0	NA	NA	NA
NA	311503	Lucaogou/Jurassic Coal-Paleozoic/Mesozoic	NA	0	0	0	NA	NA	NA	NA
NA	312702	Carboniferous/Permian Coal-Paleozoic	NA	0	0	0	NA	NA	NA	NA
NA	312802	Taiyuan/Shanxi-Majiagou/Shihezi	NA	0	0	0	NA	NA	NA	NA
NA	314203	Xujiahe-Xujiahe/Shaximiao	NA	NA	NA	NA	NA	NA	NA	NA
NA	382403	Tertiary-Parigi	NA	0	0	0	NA	NA	NA	NA
NA	382404	Tertiary-Cenozoic	NA	0	0	0	NA	NA	NA	NA
NA	404805	Central Carpathian Paleogene	NA	NA	NA	NA	NA	NA	NA	NA
NA	521502	Mesozoic Composite	NA	0	0	0	NA	NA	NA	NA

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
NA	602201	Neogene	NA	NA	NA	NA	0	NA	NA	NA
NA	605802	Aguada Bandera	NA	0	0	0	NA	NA	NA	NA
NA	804701	Permian Coal	NA	0	0	0	NA	NA	NA	NA
NA	804702	Jalangi-Sylhet/Burdwan Composite	NA	NA	NA	NA	64	NA	NA	NA



**Table AR-3d. Total petroleum systems ranked by conventional gas endowment.**

[BCFG, billion cubic feet of gas. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative gas is the reported volume of gas that has been produced. Remaining gas is the calculated remaining reserves; the difference between known and cumulative gas. Known gas is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered gas is the mean volume estimated in World Petroleum Assessment 2000. Future gas is the remaining gas plus estimated mean undiscovered gas. Gas endowment is the known gas plus estimated mean undiscovered gas volumes. Discovery maturity is the percentage of gas discovered (known gas) with respect to gas endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. NA means not applicable; it is shown for all values except mean undiscovered gas if only one field is present in the total petroleum system; and for major commodity, mean undiscovered volume, future volume, endowment, and discovery maturity of total petroleum systems containing only unassessed assessment units.]

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
1	117403	Northern West Siberian Mesozoic Composite	Gas	188,736	978,552	1,167,288	540,483	1,519,035	1,707,771	68
2	201903	Silurian Qusaiba	Gas	1,018	451,012	452,030	346,892	797,903	798,922	57
3	203001	Zagros-Mesopotamian Cretaceous-Tertiary	Oil	25,260	467,978	493,238	197,597	665,575	690,835	71
4	202101	Central Arabia Qusaiba Paleozoic	Oil	0	79,115	79,115	383,339	462,454	462,454	17
5	115401	Amu-Darya Jurassic-Cretaceous	Gas	78,540	152,073	230,614	163,650	315,724	394,264	58
6	105001	South and North Barents Triassic-Jurassic	Gas	0	78,143	78,143	266,618	344,761	344,761	23
7	202102	Arabian Sub-Basin Tuwaiq/Hanifa-Arab	Oil	24,821	250,474	275,295	34,046	284,520	309,341	89
8	101601	Paleozoic North Caspian	Oil	1,745	155,231	156,976	119,051	274,282	276,027	57
9	403601	Carboniferous-Rotliegend	Gas	124,048	98,111	222,159	25,790	123,901	247,948	90
10	719201	Tertiary Niger Delta (Agbada/Akata)	Oil	6,232	87,579	93,811	132,716	220,295	226,526	41
11	111201	Oligocene-Miocene Maykop/Diatom	Oil	8,591	27,403	35,994	173,310	200,713	209,304	17
12	203002	Paleozoic-Permian/Triassic	Gas	0	131,220	131,220	69,031	200,251	200,251	66
13	402501	Kimmeridgian Shales	Oil	31,053	127,861	158,914	37,745	165,606	196,659	81
14	117401	Bazhenov-Neocomian	Oil	29,287	68,295	97,582	96,934	165,229	194,516	50
15	401701	Upper Jurassic Spekk	Oil	0	15,662	15,662	165,201	180,863	180,863	9
16	609801	Querecual	Oil	18,897	93,399	112,296	41,552	134,951	153,848	73
17	201902	Jurassic Hanifa/Diyab-Arab	Oil	1,951	75,561	77,512	58,515	134,076	136,027	57
18	201901	Cretaceous Thamama/Wasia	Oil	6,342	95,758	102,100	22,311	118,069	124,410	82
19	381701	Kutei Basin	Oil	8,711	36,762	45,473	64,757	101,519	110,230	41
20	205805	Tanezzuft-Benoud	Gas	4,980	100,070	105,050	2,541	102,611	107,591	98
21	394801	Dingo-Mungaroo/Barrow	Gas	1,845	46,400	48,245	56,380	102,780	104,626	46
22	530501	Pimienta-Tamabra	Oil	17,609	33,213	50,822	49,272	82,485	100,094	51
23	101501	Volga-Ural Domanik-Paleozoic	Oil	15,846	80,612	96,458	2,394	83,006	98,852	98
24	100901	Dnieper-Donets Paleozoic	Gas	35,453	23,645	59,098	24,051	47,697	83,149	71
25	603601	Guaratiba-Guaruja (Cretaceous) Composite	Oil	12	1,113	1,125	80,547	81,660	81,672	1
26	520001	Permian/Upper Jurassic Composite	Oil	0	0	0	80,709	80,709	80,709	0
27	132201	North Sakhalin Neogene	Oil	162	22,221	22,383	57,451	79,673	79,835	28
28	720303	Congo Delta Composite	Oil	838	8,605	9,443	69,582	78,186	79,025	12

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
29	121001	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	Gas	0	30,210	30,210	46,039	76,249	76,249	40
30	205601	Tanezzuft-Illizi	Oil	750	44,311	45,061	27,785	72,096	72,846	62
31	100801	Domanik-Paleozoic	Oil	12,374	24,259	36,632	34,525	58,784	71,158	51
32	609802	Upper Cretaceous/Tertiary	Oil	3,156	12,667	15,822	52,009	64,676	67,832	23
33	202301	Paleozoic Qusaiba/Akkas/Abba/Mudawwara	Oil	47	1,614	1,661	64,510	66,124	66,172	3
34	315401	Ordovician/Jurassic-Phanerozoic	Oil	208	5,572	5,780	59,939	65,511	65,719	9
35	804201	Sembar-Goru/Ghazij	Gas	15,101	20,272	35,373	29,325	49,596	64,697	55
36	804703	Jenam/Bhuban-Bokabil	Gas	2,669	9,620	12,289	50,479	60,098	62,767	20
37	370101	Brunei-Sabah	Oil	9,188	27,012	36,200	23,226	50,238	59,426	61
38	370201	Sarawak Basin	Gas	3,731	33,388	37,119	17,284	50,672	54,403	68
39	207102	Maqna	Oil	10	3,517	3,527	49,820	53,338	53,347	7
40	204301	Sirte-Zelten	Oil	5,479	32,288	37,767	14,984	47,272	52,752	72
41	406801	Pre-Messinian	Gas	0	0	0	51,210	51,210	51,210	0
42	604501	Los Monos-Machareti	Oil	6,928	10,058	16,985	31,107	41,165	48,092	35
43	370301	Oligocene-Miocene Lacustrine	Oil	454	23,794	24,248	23,696	47,491	47,944	51
44	370202	East Natuna	Gas	0	45,045	45,045	1,963	47,008	47,008	96
45	609901	La Luna/Maracaibo	Oil	979	25,722	26,701	17,576	43,298	44,277	60
46	610301	Lower Cruse	Gas	0	22,600	22,600	20,103	42,703	42,703	53
47	602101	Cenomanian-Turonian	Oil	0	0	0	42,058	42,058	42,058	0
48	382201	Bampo-Cenozoic	Gas	13,977	11,582	25,559	15,123	26,705	40,682	63
49	605901	Lower Inoceramus	Gas	10,053	14,754	24,807	14,040	28,794	38,848	64
50	391301	Late Jurassic/Early Cretaceous-Mesozoic	Gas	0	17,960	17,960	20,093	38,053	38,053	47
51	804301	Eocene-Miocene Composite	Oil	6,228	17,965	24,193	12,944	30,909	37,137	65
52	110901	Terek-Caspian	Oil	192	7,648	7,840	27,779	35,427	35,619	22
53	524305	Mannville-Upper Mannville	Gas	17,171	13,560	30,731	4,597	18,157	35,328	87
54	406001	Porto Garibaldi	Gas	9,373	9,102	18,475	16,267	25,369	34,741	53
55	603401	Cretaceous Composite	Oil	42	180	222	34,287	34,467	34,509	1
56	200401	Madbi Amran/Qishn	Oil	0	17,120	17,120	16,982	34,102	34,102	50
57	605501	Neuquen Hybrid	Oil	7,636	13,068	20,704	12,416	25,483	33,119	63
58	405701	Transylvanian Composite	Gas	21,194	9,537	30,731	2,083	11,620	32,814	94
59	110801	Azov-Kuban Mesozoic-Cenozoic	Gas	7,586	11,118	18,704	12,252	23,369	30,955	60
60	804801	Eocene to Miocene Composite	Gas	722	9,298	10,020	20,521	29,819	30,541	33
61	201401	North Oman Huqf/Q'-Haushi	Oil	149	20,189	20,339	10,112	30,301	30,450	67
62	205403	Tanezzuft-Ghadames	Oil	579	15,905	16,484	12,035	27,940	28,519	58
63	382801	Lahat/Talang Akar-Cenozoic	Oil	3,125	7,080	10,204	18,250	25,330	28,455	36
64	370302	Miocene Coaly Strata	Gas	38	23,863	23,901	3,768	27,631	27,669	86
65	524306	Second White Specks-Cardium	Oil	16,010	10,439	26,449	1,126	11,565	27,574	96
66	603501	Lagoa Feia-Carapebus	Oil	303	5,941	6,244	19,691	25,632	25,935	24
67	524303	Exshaw-Rundle	Oil	14,851	6,717	21,568	2,663	9,380	24,232	89
68	312701	Shahejie-Shahejie/Guantao/Wumishan	Oil	2,987	12,685	15,672	8,514	21,199	24,186	65
69	110903	Stavropol-Prikumsk	Oil	9,670	3,829	13,499	9,644	13,473	23,143	58
70	202302	Jurassic Gotnia/Barsarin/Sargelu/Najmah	Oil	0	100	100	22,942	23,042	23,042	0

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
71	603701	Cenomanian-Turonian-Tertiary Composite	Oil	0	0	0	22,806	22,806	22,806	0
72	120701	Yenisey Foldbelt Riphean-Craton Margin Riphean	Oil	0	5,052	5,052	16,983	22,035	22,035	23
73	609601	Gacheta-Mirador	Oil	139	15,175	15,314	6,217	21,391	21,530	71
74	391003	Jurassic/Early Cretaceous-Mesozoic	Oil	0	7,526	7,526	11,346	18,872	18,872	40
75	204801	Bou Dabbous-Tertiary	Oil	37	15,472	15,509	2,746	18,218	18,256	85
76	524302	Duvernay-Leduc	Oil	9,050	5,307	14,357	3,224	8,531	17,581	82
77	314201	Maokou/Longtang-Jialingjiang/Maokou/Huanglong	Gas	5,709	5,364	11,072	6,137	11,501	17,210	64
78	391002	Keyling/Hyland Bay-Permian	Gas	0	5,730	5,730	10,995	16,725	16,725	34
79	394802	Locker-Mungaroo/Barrow	Gas	27	8,075	8,102	8,331	16,406	16,432	49
80	207101	Sudr-Nubia	Oil	840	5,155	5,995	10,192	15,347	16,186	37
81	201601	North Oman Huqf-Shu'aiba	Oil	536	7,097	7,633	8,206	15,303	15,839	48
82	393001	Latrobe	Oil	3,501	6,274	9,775	5,658	11,932	15,433	63
83	720302	Azile-Senonian	Oil	203	1,632	1,835	13,230	14,862	15,065	12
84	382402	Jatibarang/Talang Akar-Oligocene/Miocene	Oil	794	6,529	7,322	6,579	13,108	13,901	53
85	404701	Isotopically Light Gas	Gas	5,455	5,205	10,660	2,321	7,525	12,980	82
86	524304	Combined Triassic/Jurassic	Oil	4,584	5,996	10,580	2,166	8,163	12,747	83
87	404801	Greater Hungarian Plain Neogene	Oil	5,436	4,221	9,657	2,395	6,616	12,052	80
88	718301	Cretaceous Composite	Oil	46	1,903	1,949	10,071	11,974	12,020	16
89	610701	Tobago Trough Paleogene	Oil	16	7	22	11,957	11,963	11,979	0
90	606301	Lower Cretaceous Marine	Oil	0	75	75	11,327	11,402	11,402	1
91	205401	Tanezzuft-Oued Mya	Oil	68	8,905	8,973	2,341	11,246	11,314	79
92	521501	Egret-Hibernia	Oil	0	2,406	2,406	8,893	11,298	11,298	21
93	117402	Togur-Tyumen	Oil	443	4,738	5,180	5,516	10,254	10,697	48
94	602901	Neocomian to Turonian Composite	Oil	348	1,059	1,407	8,334	9,393	9,741	14
95	730301	Cretaceous Composite	Gas	0	6,015	6,015	3,603	9,618	9,618	63
96	606001	Neocomian Lacustrine	Oil	0	0	0	8,871	8,871	8,871	0
97	524301	Keg River-Keg River	Oil	4,589	2,484	7,073	1,776	4,260	8,849	80
98	609001	La Luna-La Paz	Oil	2,310	2,692	5,002	3,292	5,985	8,294	60
99	110902	South Mangyshlak	Oil	28	5,679	5,707	2,262	7,941	7,969	72
100	380801	Brown Shale-Sihapas	Oil	910	2,956	3,866	4,078	7,034	7,944	49
101	404702	Mesozoic/Paleogene Composite	Oil	3,360	2,033	5,393	2,345	4,378	7,738	70
102	803401	Sylhet-Kopili/Barail-Tipam Composite	Oil	2,039	4,495	6,534	1,178	5,673	7,712	85
103	606002	Lower Cretaceous	Oil	0	0	0	7,710	7,710	7,710	0
104	608101	Cretaceous-Tertiary	Oil	1,951	941	2,892	4,795	5,736	7,687	38
105	406102	Dysodile Schist-Tertiary	Oil	1,580	3,468	5,048	2,618	6,086	7,666	66
106	605801	D-129	Oil	1,667	1,898	3,565	3,774	5,672	7,339	49
107	205802	Tanezzuft-Ahnet	Gas	0	3,117	3,117	2,973	6,090	6,090	51
108	314204	Cambrian/Silurian Marine Shale-Dengying/Lower Paleozoic	Gas	491	859	1,350	4,036	4,895	5,386	25
109	205801	Tanezzuft-Timimoun	Gas	0	4,200	4,200	1,128	5,328	5,328	79
110	404802	Zala-Drava-Sava Mesozoic/Neogene	Oil	1,082	2,847	3,929	1,151	3,998	5,080	77
111	205402	Tanezzuft-Melrhir	Oil	0	125	125	4,887	5,012	5,012	2
112	720301	Melania-Gamba	Oil	62	780	843	3,674	4,455	4,517	19

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
113	101502	Belsk Basin	Gas	571	2,067	2,638	1,547	3,615	4,185	63
114	314401	Qingshankou-Putaohua/Shuertu	Oil	3	1,594	1,598	2,494	4,088	4,091	39
115	115002	North Ustyurt Jurassic	Oil	0	1,450	1,450	2,180	3,630	3,630	40
116	204802	Jurassic-Cretaceous Composite	Oil	6	1,295	1,301	2,280	3,575	3,581	36
117	201602	Middle Cretaceous Natih	Oil	616	2,485	3,100	363	2,848	3,463	90
118	314402	Jurassic Coal-Denglouku/Nongan	Gas	0	145	145	3,212	3,357	3,357	4
119	406101	Moesian Platform Composite	Oil	1,546	671	2,217	561	1,232	2,778	80
120	311501	Lucaogou-Karamay/Ulho/Pindequan	Oil	491	1,757	2,248	346	2,104	2,594	87
121	802601	Patala-Namal	Oil	807	1,174	1,981	551	1,726	2,533	78
122	604101	Mesozoic-Cenozoic	Oil	661	955	1,616	755	1,711	2,372	68
123	205803	Tanezzuft-Sbaa	Oil	0	1,490	1,490	645	2,134	2,134	70
124	406002	Meride/Riva di Solto	Oil	154	257	412	1,698	1,955	2,109	20
125	720304	Cuanza Composite	Oil	46	13	59	1,558	1,571	1,617	4
126	382401	Banuwati-Oligocene/Miocene	Oil	233	381	614	874	1,255	1,488	41
127	311502	Jurassic Coal-Jurassic/Tertiary	Oil	10	332	342	950	1,281	1,292	26
128	391001	Milligans-Carboniferous/Permian	Oil	0	48	48	1,151	1,199	1,199	4
129	115001	Buzachi Arch and Surrounding Areas Composite	Oil	0	943	943	89	1,033	1,033	91
130	524404	Lodgepole	Oil	728	166	893	63	228	956	93
131	701301	Cretaceous-Tertiary Composite	Oil	4	45	49	856	901	905	5
132	604102	Paleozoic	Oil	0	0	0	841	841	841	0
133	608301	Neogene	Oil	0	340	340	471	811	811	42
134	611701	Upper Jurassic-Neocomian	Oil	20	77	96	592	668	688	14
135	404703	Paleozoic Composite	Oil	0	233	233	383	616	616	38
136	205806	Tanezzuft-Bechar/Abadla	Gas	0	0	0	441	441	441	0
137	404803	Danube Neogene	Gas	7	240	247	146	386	393	63
138	608302	Cretaceous-Paleogene	Oil	148	10	158	224	233	382	41
139	404804	Transcarpathian Neogene	Gas	0	261	261	112	373	373	70
140	404806	Hungarian Paleogene	Oil	15	1	16	339	340	355	4
141	205804	Tanezzuft-Mouydir	Gas	0	0	0	292	292	292	0
142	314202	Daanzhai-Daanzhai/Lianggaoshan	Oil	50	90	140	137	227	278	51
143	312801	Yanchang-Yanan	Oil	13	7	20	20	27	40	50
144	524402	Brightholme	Oil	8	3	11	5	8	16	67
145	524401	Yeoman	Oil	0	0	0	4	4	4	3
146	524403	Bakken	Oil	0	0	0	3	3	4	9
NA	115003	North Ustyurt Paleozoic	NA	NA	NA	NA	8,500	NA	NA	NA
NA	311503	Lucaogou/Jurassic Coal-Paleozoic/Mesozoic	NA	0	0	0	NA	NA	NA	NA
NA	312702	Carboniferous/Permian Coal-Paleozoic	NA	0	0	0	NA	NA	NA	NA
NA	312802	Taiyuan/Shanxi-Majiagou/Shihezi	NA	0	5,590	5,590	NA	NA	NA	NA
NA	314203	Xujiahe-Xujiahe/Shaximiao	NA	NA	NA	NA	NA	NA	NA	NA
NA	382403	Tertiary-Parigi	NA	0	119	119	NA	NA	NA	NA
NA	382404	Tertiary-Cenozoic	NA	0	0	0	NA	NA	NA	NA
NA	404805	Central Carpathian Paleogene	NA	NA	NA	NA	NA	NA	NA	NA
NA	521502	Mesozoic Composite	NA	0	4,224	4,224	NA	NA	NA	NA

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
NA	602201	Neogene	NA	NA	NA	NA	29,840	NA	NA	NA
NA	605802	Aguada Bandera	NA	0	0	0	NA	NA	NA	NA
NA	804701	Permian Coal	NA	0	0	0	NA	NA	NA	NA
NA	804702	Jalangi-Sylhet/Burdwan Composite	NA	NA	NA	NA	4,613	NA	NA	NA

**Table AR-3e. Total petroleum systems ranked by future oil volume.**

[MMBO, million barrels of oil. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative oil is the reported volume of oil that has been produced. Remaining oil is the calculated remaining reserves; the difference between known and cumulative oil. Known oil is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered oil is the mean volume estimated in World Petroleum Assessment 2000. Future oil is the remaining oil plus estimated mean undiscovered oil. Oil endowment is the known oil plus estimated mean undiscovered oil volumes. Discovery maturity is the percentage of oil discovered (known oil) with respect to oil endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. Negative values result from inconsistent reporting of cumulative and known volumes. Values in parentheses ( ) are questionable data. NA means not applicable; it is shown for all values except mean undiscovered oil if only one field is present in the total petroleum system; and for major commodity, mean undiscovered volume, future volume, endowment, and discovery maturity of total petroleum systems containing only unassessed assessment units.]

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
1	203001	Zagros-Mesopotamian Cretaceous-Tertiary	Oil	100,467	271,760	372,226	94,516	366,275	466,742	80
2	202102	Arabian Sub-Basin Tuwaiq/Hanifa-Arab	Oil	63,853	135,142	198,995	41,703	176,845	240,698	83
3	117401	Bazhenov-Neocomian	Oil	45,819	72,153	117,972	42,947	115,100	160,919	73
4	201901	Cretaceous Thamama/Wasia	Oil	13,544	57,686	71,231	8,979	66,665	80,209	89
5	719201	Tertiary Niger Delta (Agbada/Akata)	Oil	16,598	17,925	34,522	40,487	58,412	75,010	46
6	520001	Permian/Upper Jurassic Composite	Oil	0	0	0	47,148	47,148	47,148	0
7	530501	Pimienta-Tamabra	Oil	22,139	22,273	44,412	20,569	42,841	64,980	68
8	402501	Kimmeridgian Shales	Oil	22,467	21,427	43,895	13,098	34,526	56,993	77
9	101601	Paleozoic North Caspian	Oil	822	9,987	10,808	23,320	33,307	34,128	32
10	204301	Sirte-Zelten	Oil	13,986	23,087	37,072	6,854	29,941	43,927	84
11	720303	Congo Delta Composite	Oil	3,693	6,052	9,745	23,198	29,250	32,943	30
12	201902	Jurassic Hanifa/Diyab-Arab	Oil	5,688	13,325	19,013	14,478	27,803	33,491	57
13	202101	Central Arabia Qusaiba Paleozoic	Oil	84	6,292	6,376	19,190	25,481	25,566	25
14	603501	Lagoa Feia-Carapebus	Oil	1,769	8,287	10,056	16,293	24,580	26,349	38
15	101501	Volga-Ural Domanik-Paleozoic	Oil	42,584	21,288	63,872	2,507	23,795	66,379	96
16	603601	Guaratiba-Guaruja (Cretaceous) Composite	Oil	6	279	285	23,209	23,488	23,494	1
17	609801	Querecual	Oil	11,027	15,729	26,756	7,231	22,960	33,988	79
18	609901	La Luna/Maracaibo	Oil	35,581	13,491	49,072	8,183	21,675	57,256	86
19	111201	Oligocene-Miocene Maykop/Diatom	Oil	11,681	5,758	17,438	15,725	21,483	33,163	53
20	117402	Togur-Tyumen	Oil	645	11,111	11,756	7,474	18,584	19,230	61
21	312701	Shahejie-Shahejie/Guantao/Wumishan	Oil	10,415	14,139	24,553	4,412	18,550	28,965	85
22	602101	Cenomanian-Turonian	Oil	17	46	63	15,247	15,293	15,310	0
23	117403	Northern West Siberian Mesozoic Composite	Gas	66	10,119	10,185	4,814	14,933	14,999	68
24	100801	Domanik-Paleozoic	Oil	3,346	9,723	13,069	5,170	14,892	18,239	72
25	201903	Silurian Qusaiba	Gas	41	514	555	13,235	13,749	13,790	4
26	401701	Upper Jurassic Spekk	Oil	76	2,585	2,660	6,538	9,123	9,199	29
27	609601	Gacheta-Mirador	Oil	1,179	4,224	5,402	3,631	7,855	9,033	60
28	205403	Tanezzuft-Ghadames	Oil	1,629	2,909	4,538	4,461	7,370	8,999	50

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
29	804301	Eocene-Miocene Composite	Oil	3,375	5,065	8,440	2,091	7,156	10,531	80
30	202302	Jurassic Gotnia/Barsarin/Sargelu/Najmah	Oil	94	379	474	6,569	6,948	7,042	7
31	604101	Mesozoic-Cenozoic	Oil	2,889	3,712	6,601	3,023	6,735	9,625	69
32	315401	Ordovician/Jurassic-Phanerozoic	Oil	45	658	704	5,948	6,606	6,652	11
33	370101	Brunei-Sabah	Oil	3,953	2,945	6,898	3,390	6,335	10,288	67
34	311501	Lucaogou-Karamay/Ulho/Pindequan	Oil	937	5,687	6,624	467	6,154	7,091	93
35	207101	Sudr-Nubia	Oil	6,351	3,459	9,810	2,608	6,067	12,418	79
36	720302	Azile-Senonian	Oil	1,278	836	2,114	5,031	5,867	7,145	30
37	381701	Kutei Basin	Oil	2,195	684	2,879	5,145	5,829	8,024	36
38	205401	Tanezzuft-Oued Mya	Oil	5,872	4,971	10,843	830	5,801	11,673	93
39	380801	Brown Shale-Sihapas	Oil	8,349	4,868	13,217	899	5,768	14,117	94
40	110901	Terek-Caspian	Oil	752	2,738	3,490	2,829	5,567	6,319	55
41	609802	Upper Cretaceous/Tertiary	Oil	2,780	667	3,447	4,644	5,311	8,091	43
42	205601	Tanezzuft-Illizi	Oil	2,286	1,384	3,670	2,814	4,198	6,484	57
43	314401	Qingshankou-Putaohua/Shuertu	Oil	12,399	3,171	15,570	1,026	4,198	16,596	94
44	200401	Madbi Amran/Qishn	Oil	649	1,284	1,933	2,740	4,025	4,673	41
45	132201	North Sakhalin Neogene	Oil	754	1,428	2,182	2,582	4,010	4,764	46
46	121001	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	Gas	1	2,005	2,006	1,611	3,616	3,617	55
47	606001	Neocomian Lacustrine	Oil	0	0	0	3,603	3,603	3,603	0
48	202301	Paleozoic Qusaiba/Akkas/Abba/Mudawwara	Oil	269	944	1,213	2,632	3,577	3,845	32
49	110902	South Mangyshlak	Oil	2,406	2,835	5,241	651	3,486	5,893	89
50	521501	Egret-Hibernia	Oil	0	1,582	1,582	1,796	3,378	3,378	47
51	603401	Cretaceous Composite	Oil	93	37	130	2,959	2,995	3,089	4
52	603701	Cenomanian-Turonian-Tertiary Composite	Oil	0	0	0	2,938	2,938	2,938	0
53	394801	Dingo-Mungaroo/Barrow	Gas	489	660	1,149	2,249	2,909	3,398	34
54	201601	North Oman Huqf-Shu'aiba	Oil	1,259	1,426	2,685	1,304	2,731	3,990	67
55	207102	Maqna	Oil	22	133	155	2,579	2,712	2,734	6
56	370301	Oligocene-Miocene Lacustrine	Oil	1,459	1,557	3,017	1,127	2,684	4,143	73
57	115001	Buzachi Arch and Surrounding Areas Composite	Oil	459	1,827	2,286	814	2,641	3,100	74
58	100901	Dnieper-Donets Paleozoic	Gas	110	1,501	1,611	1,098	2,599	2,709	59
59	204801	Bou Dabbous-Tertiary	Oil	481	1,633	2,114	667	2,300	2,782	76
60	606002	Lower Cretaceous	Oil	0	0	0	2,229	2,229	2,229	0
61	604501	Los Monos-Machareti	Oil	257	63	320	2,145	2,209	2,466	13
62	605501	Neuquen Hybrid	Oil	1,532	838	2,370	1,290	2,128	3,659	65
63	406102	Dysodile Schist-Tertiary	Oil	2,832	1,283	4,115	842	2,125	4,957	83
64	201401	North Oman Huqf/Q'-Haushi	Oil	715	1,313	2,028	743	2,056	2,771	73
65	608101	Cretaceous-Tertiary	Oil	1,346	326	1,672	1,711	2,038	3,383	49
66	803401	Sylhet-Kopili/Barail-Tipam Composite	Oil	911	1,625	2,536	399	2,024	2,935	86
67	205402	Tanezzuft-Melrhir	Oil	0	6	6	1,875	1,881	1,881	0
68	524302	Duvernay-Leduc	Oil	8,153	1,306	9,459	501	1,807	9,960	95
69	720301	Melania-Gamba	Oil	708	1,044	1,752	727	1,772	2,480	71
70	602901	Neocomian to Turonian Composite	Oil	469	223	692	1,487	1,711	2,179	32

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
71	610701	Tobago Trough Paleogene	Oil	8	2	11	1,536	1,538	1,546	1
72	391003	Jurassic/Early Cretaceous-Mesozoic	Oil	123	378	502	1,146	1,524	1,648	30
73	605801	D-129	Oil	2,445	900	3,346	498	1,398	3,844	87
74	382402	Jatibarang/Talang Akar-Oligocene/Miocene	Oil	727	1,181	1,908	195	1,377	2,104	91
75	605901	Lower Inoceramus	Gas	595	620	1,216	704	1,325	1,920	63
76	120701	Yenisey Foldbelt Riphean-Craton Margin Riphean	Oil	0	34	34	1,213	1,246	1,246	3
77	609001	La Luna-La Paz	Oil	1,915	512	2,426	709	1,220	3,135	77
78	718301	Cretaceous Composite	Oil	74	162	236	1,004	1,166	1,240	19
79	370201	Sarawak Basin	Gas	168	629	797	529	1,159	1,327	60
80	393001	Latrobe	Oil	3,077	784	3,860	310	1,093	4,170	93
81	391301	Late Jurassic/Early Cretaceous-Mesozoic	Gas	19	27	46	1,055	1,083	1,101	4
82	382801	Lahat/Talang Akar-Cenozoic	Oil	1,842	587	2,429	469	1,055	2,898	84
83	606301	Lower Cretaceous Marine	Oil	0	10	10	1,031	1,041	1,041	1
84	110903	Stavropol-Prikumsk	Oil	1,200	(-380)	820	1,407	(1,027)	2,227	37
85	105001	South and North Barents Triassic-Jurassic	Gas	0	51	51	955	1,006	1,007	5
86	115401	Amu-Darya Jurassic-Cretaceous	Gas	80	686	766	270	957	1,037	74
87	201602	Middle Cretaceous Natih	Oil	1,299	553	1,852	371	925	2,224	83
88	804801	Eocene to Miocene Composite	Gas	528	188	716	724	912	1,441	50
89	382401	Banuwati-Oligocene/Miocene	Oil	828	431	1,259	462	894	1,722	73
90	720304	Cuanza Composite	Oil	86	20	107	790	810	897	12
91	312801	Yanchang-Yanan	Oil	81	602	683	138	740	821	83
92	611701	Upper Jurassic-Neocomian	Oil	65	232	297	494	726	790	38
93	403601	Carboniferous-Rotliegend	Gas	2,300	572	2,872	143	715	3,015	95
94	406101	Moesian Platform Composite	Oil	1,251	542	1,793	171	713	1,963	91
95	524404	Lodgepole	Oil	2,239	539	2,778	111	650	2,889	96
96	370302	Miocene Coaly Strata	Gas	58	533	592	101	634	693	85
97	404702	Mesozoic/Paleogene Composite	Oil	640	283	923	344	627	1,267	73
98	406002	Meride/Riva di Solto	Oil	78	254	332	360	614	692	48
99	524306	Second White Specks-Cardium	Oil	2,146	543	2,688	36	578	2,724	99
100	524303	Exshaw-Rundle	Oil	1,292	435	1,728	126	561	1,854	93
101	404801	Greater Hungarian Plain Neogene	Oil	731	358	1,089	196	555	1,285	85
102	204802	Jurassic-Cretaceous Composite	Oil	39	64	103	403	467	506	20
103	205803	Tanezzuft-Sbaa	Oil	0	284	284	162	446	446	64
104	382201	Bampo-Cenozoic	Gas	496	178	674	213	391	887	76
105	406801	Pre-Messinian	Gas	0	0	0	388	388	388	0
106	524304	Combined Triassic/Jurassic	Oil	1,012	284	1,296	96	380	1,393	93
107	404802	Zala-Drava-Sava Mesozoic/Neogene	Oil	836	265	1,101	114	379	1,215	91
108	311502	Jurassic Coal-Jurassic/Tertiary	Oil	16	193	210	96	289	306	69
109	802601	Patala-Namal	Oil	204	121	324	145	266	469	69
110	524301	Keg River-Keg River	Oil	835	176	1,011	84	260	1,095	92
111	608302	Cretaceous-Paleogene	Oil	118	53	171	200	252	370	46
112	115002	North Ustyurt Jurassic	Oil	0	80	80	139	220	220	37
113	804201	Sembar-Goru/Ghazij	Gas	111	70	180	119	188	299	60



Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
114	701301	Cretaceous-Tertiary Composite	Oil	0	10	10	157	167	168	6
115	391001	Milligans-Carboniferous/Permian	Oil	0	15	15	140	155	155	10
116	205805	Tanezzuft-Benoud	Gas	16	72	88	72	144	160	55
117	394802	Locker-Mungaroo/Barrow	Gas	0	6	6	132	137	137	4
118	370202	East Natuna	Gas	0	20	20	102	122	122	16
119	730301	Cretaceous Composite	Gas	0	0	0	116	116	116	0
120	314202	Daanzhai-Daanzhai/Lianggaoshan	Oil	38	71	109	27	99	136	80
121	604102	Paleozoic	Oil	0	0	0	74	74	74	0
122	404806	Hungarian Paleogene	Oil	10	1	11	49	50	60	18
123	404703	Paleozoic Composite	Oil	0	1	1	47	47	47	1
124	804703	Jenam/Bhuban-Bokabil	Gas	3	2	4	39	41	43	10
125	608301	Neogene	Oil	4	0	4	37	37	41	11
126	205802	Tanezzuft-Ahnet	Gas	0	1	1	34	35	35	3
127	205801	Tanezzuft-Timimoun	Gas	0	0	0	31	31	31	0
128	610301	Lower Cruse	Gas	0	20	20	0	20	20	100
129	205806	Tanezzuft-Bechar/Abadla	Gas	0	0	0	16	16	16	0
130	524403	Bakken	Oil	5	2	7	11	13	18	40
131	205804	Tanezzuft-Mouydir	Gas	0	0	0	12	12	12	0
132	524402	Brightholme	Oil	11	4	14	8	11	22	66
133	524401	Yeoman	Oil	1	0	1	5	6	6	15
134	314402	Jurassic Coal-Denglouku/Nongan	Gas	0	5	5	0	5	5	100
135	101502	Belsk Basin	Gas	106	(-41)	65	42	(1)	106	61
136	404701	Isotopically Light Gas	Gas	1	1	1	0	1	1	100
137	203002	Paleozoic-Permian/Triassic	Gas	0	0	0	0	0	0	NA
138	314201	Maokou/Longtang-Jialingjiang/Maokou/Huanglong	Gas	0	0	0	0	0	0	100
139	391002	Keyling/Hyland Bay-Permian	Gas	0	0	0	0	0	0	NA
140	404803	Danube Neogene	Gas	0	0	0	0	0	0	NA
141	404804	Transcarpathian Neogene	Gas	0	0	0	0	0	0	NA
142	405701	Transylvanian Composite	Gas	0	0	0	0	0	0	NA
143	406001	Porto Garibaldi	Gas	13	0	14	0	0	14	100
144	524305	Mannville-Upper Mannville	Gas	0	0	0	0	0	0	NA
145	314204	Cambrian/Silurian Marine Shale-Dengying/Lower Paleozoic	Gas	9	(-8)	1	0	(-8)	1	100
146	110801	Azov-Kuban Mesozoic-Cenozoic	Gas	1,273	(-750)	524	417	(-332)	941	56
NA	115003	North Ustyurt Paleozoic	NA	NA	NA	NA	0	NA	NA	NA
NA	311503	Lucaogou/Jurassic Coal-Paleozoic/Mesozoic	NA	0	0	0	NA	NA	NA	NA
NA	312702	Carboniferous/Permian Coal-Paleozoic	NA	0	0	0	NA	NA	NA	NA
NA	312802	Taiyuan/Shanxi-Majiagou/Shihezi	NA	0	0	0	NA	NA	NA	NA
NA	314203	Xujiahe-Xujiahe/Shaximiao	NA	NA	NA	NA	NA	NA	NA	NA
NA	382403	Tertiary-Parigi	NA	0	0	0	NA	NA	NA	NA
NA	382404	Tertiary-Cenozoic	NA	0	0	0	NA	NA	NA	NA
NA	404805	Central Carpathian Paleogene	NA	NA	NA	NA	NA	NA	NA	NA
NA	521502	Mesozoic Composite	NA	0	0	0	NA	NA	NA	NA

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
NA	602201	Neogene	NA	NA	NA	NA	0	NA	NA	NA
NA	605802	Aguada Bandera	NA	0	0	0	NA	NA	NA	NA
NA	804701	Permian Coal	NA	0	0	0	NA	NA	NA	NA
NA	804702	Jalangi-Sylhet/Burdwan Composite	NA	NA	NA	NA	64	NA	NA	NA

**Table AR-3f. Total petroleum systems ranked by future gas volume.**

[BCFG, billion cubic feet of gas. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative gas is the reported volume of gas that has been produced. Remaining gas is the calculated remaining reserves; the difference between known and cumulative gas. Known gas is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered gas is the mean volume estimated in World Petroleum Assessment 2000. Future gas is the remaining gas plus estimated mean undiscovered gas. Gas endowment is the known gas plus estimated mean undiscovered gas volumes. Discovery maturity is the percentage of gas discovered (known gas) with respect to gas endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. NA means not applicable; it is shown for all values except mean undiscovered gas if only one field is present in the total petroleum system; and for major commodity, mean undiscovered volume, future volume, endowment, and discovery maturity of total petroleum systems containing only unassessed assessment units.]

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
1	117403	Northern West Siberian Mesozoic Composite	Gas	188,736	978,552	1,167,288	540,483	1,519,035	1,707,771	68
2	201903	Silurian Qusaiba	Gas	1,018	451,012	452,030	346,892	797,903	798,922	57
3	203001	Zagros-Mesopotamian Cretaceous-Tertiary	Oil	25,260	467,978	493,238	197,597	665,575	690,835	71
4	202101	Central Arabia Qusaiba Paleozoic	Oil	0	79,115	79,115	383,339	462,454	462,454	17
5	105001	South and North Barents Triassic-Jurassic	Gas	0	78,143	78,143	266,618	344,761	344,761	23
6	115401	Amu-Darya Jurassic-Cretaceous	Gas	78,540	152,073	230,614	163,650	315,724	394,264	58
7	202102	Arabian Sub-Basin Tuwaiq/Hanifa-Arab	Oil	24,821	250,474	275,295	34,046	284,520	309,341	89
8	101601	Paleozoic North Caspian	Oil	1,745	155,231	156,976	119,051	274,282	276,027	57
9	719201	Tertiary Niger Delta (Agbada/Akata)	Oil	6,232	87,579	93,811	132,716	220,295	226,526	41
10	111201	Oligocene-Miocene Maykop/Diatom	Oil	8,591	27,403	35,994	173,310	200,713	209,304	17
11	203002	Paleozoic-Permian/Triassic	Gas	0	131,220	131,220	69,031	200,251	200,251	66
12	401701	Upper Jurassic Spekk	Oil	0	15,662	15,662	165,201	180,863	180,863	9
13	402501	Kimmeridgian Shales	Oil	31,053	127,861	158,914	37,745	165,606	196,659	81
14	117401	Bazhenov-Neocomian	Oil	29,287	68,295	97,582	96,934	165,229	194,516	50
15	609801	Querecual	Oil	18,897	93,399	112,296	41,552	134,951	153,848	73
16	201902	Jurassic Hanifa/Diyab-Arab	Oil	1,951	75,561	77,512	58,515	134,076	136,027	57
17	403601	Carboniferous-Rotliegend	Gas	124,048	98,111	222,159	25,790	123,901	247,948	90
18	201901	Cretaceous Thamama/Wasia	Oil	6,342	95,758	102,100	22,311	118,069	124,410	82
19	394801	Dingo-Mungaroo/Barrow	Gas	1,845	46,400	48,245	56,380	102,780	104,626	46
20	205805	Tanezzuft-Benoud	Gas	4,980	100,070	105,050	2,541	102,611	107,591	98
21	381701	Kutei Basin	Oil	8,711	36,762	45,473	64,757	101,519	110,230	41
22	101501	Volga-Ural Domanik-Paleozoic	Oil	15,846	80,612	96,458	2,394	83,006	98,852	98
23	530501	Pimienta-Tamabra	Oil	17,609	33,213	50,822	49,272	82,485	100,094	51
24	603601	Guaratiba-Guaruja (Cretaceous) Composite	Oil	12	1,113	1,125	80,547	81,660	81,672	1
25	520001	Permian/Upper Jurassic Composite	Oil	0	0	0	80,709	80,709	80,709	0
26	132201	North Sakhalin Neogene	Oil	162	22,221	22,383	57,451	79,673	79,835	28
27	720303	Congo Delta Composite	Oil	838	8,605	9,443	69,582	78,186	79,025	12

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
29	804301	Eocene-Miocene Composite	Oil	3,375	5,065	8,440	2,091	7,156	10,531	80
30	202302	Jurassic Gotnia/Barsarin/Sargelu/Najmah	Oil	94	379	474	6,569	6,948	7,042	7
31	604101	Mesozoic-Cenozoic	Oil	2,889	3,712	6,601	3,023	6,735	9,625	69
32	315401	Ordovician/Jurassic-Phanerozoic	Oil	45	658	704	5,948	6,606	6,652	11
33	370101	Brunei-Sabah	Oil	3,953	2,945	6,898	3,390	6,335	10,288	67
34	311501	Lucaogou-Karamay/Ulho/Pindequan	Oil	937	5,687	6,624	467	6,154	7,091	93
35	207101	Sudr-Nubia	Oil	6,351	3,459	9,810	2,608	6,067	12,418	79
36	720302	Azile-Senonian	Oil	1,278	836	2,114	5,031	5,867	7,145	30
37	381701	Kutei Basin	Oil	2,195	684	2,879	5,145	5,829	8,024	36
38	205401	Tanezzuft-Oued Mya	Oil	5,872	4,971	10,843	830	5,801	11,673	93
39	380801	Brown Shale-Sihapas	Oil	8,349	4,868	13,217	899	5,768	14,117	94
40	110901	Terek-Caspian	Oil	752	2,738	3,490	2,829	5,567	6,319	55
41	609802	Upper Cretaceous/Tertiary	Oil	2,780	667	3,447	4,644	5,311	8,091	43
42	205601	Tanezzuft-Illizi	Oil	2,286	1,384	3,670	2,814	4,198	6,484	57
43	314401	Qingshankou-Putaohua/Shuertu	Oil	12,399	3,171	15,570	1,026	4,198	16,596	94
44	200401	Madbi Amran/Qishn	Oil	649	1,284	1,933	2,740	4,025	4,673	41
45	132201	North Sakhalin Neogene	Oil	754	1,428	2,182	2,582	4,010	4,764	46
46	121001	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	Gas	1	2,005	2,006	1,611	3,616	3,617	55
47	606001	Neocomian Lacustrine	Oil	0	0	0	3,603	3,603	3,603	0
48	202301	Paleozoic Qusaiba/Akkas/Abba/Mudawwara	Oil	269	944	1,213	2,632	3,577	3,845	32
49	110902	South Mangyshlak	Oil	2,406	2,835	5,241	651	3,486	5,893	89
50	521501	Egret-Hibernia	Oil	0	1,582	1,582	1,796	3,378	3,378	47
51	603401	Cretaceous Composite	Oil	93	37	130	2,959	2,995	3,089	4
52	603701	Cenomanian-Turonian-Tertiary Composite	Oil	0	0	0	2,938	2,938	2,938	0
53	394801	Dingo-Mungaroo/Barrow	Gas	489	660	1,149	2,249	2,909	3,398	34
54	201601	North Oman Huqf-Shu'aiba	Oil	1,259	1,426	2,685	1,304	2,731	3,990	67
55	207102	Maqna	Oil	22	133	155	2,579	2,712	2,734	6
56	370301	Oligocene-Miocene Lacustrine	Oil	1,459	1,557	3,017	1,127	2,684	4,143	73
57	115001	Buzachi Arch and Surrounding Areas Composite	Oil	459	1,827	2,286	814	2,641	3,100	74
58	100901	Dnieper-Donets Paleozoic	Gas	110	1,501	1,611	1,098	2,599	2,709	59
59	204801	Bou Dabbous-Tertiary	Oil	481	1,633	2,114	667	2,300	2,782	76
60	606002	Lower Cretaceous	Oil	0	0	0	2,229	2,229	2,229	0
61	604501	Los Monos-Machareti	Oil	257	63	320	2,145	2,209	2,466	13
62	605501	Neuquen Hybrid	Oil	1,532	838	2,370	1,290	2,128	3,659	65
63	406102	Dysodile Schist-Tertiary	Oil	2,832	1,283	4,115	842	2,125	4,957	83
64	201401	North Oman Huqf/Q'-Haushi	Oil	715	1,313	2,028	743	2,056	2,771	73
65	608101	Cretaceous-Tertiary	Oil	1,346	326	1,672	1,711	2,038	3,383	49
66	803401	Sylhet-Kopili/Barail-Tipam Composite	Oil	911	1,625	2,536	399	2,024	2,935	86
67	205402	Tanezzuft-Melrhir	Oil	0	6	6	1,875	1,881	1,881	0
68	524302	Duvernay-Leduc	Oil	8,153	1,306	9,459	501	1,807	9,960	95
69	720301	Melania-Gamba	Oil	708	1,044	1,752	727	1,772	2,480	71
70	602901	Neocomian to Turonian Composite	Oil	469	223	692	1,487	1,711	2,179	32

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
71	610701	Tobago Trough Paleogene	Oil	8	2	11	1,536	1,538	1,546	1
72	391003	Jurassic/Early Cretaceous-Mesozoic	Oil	123	378	502	1,146	1,524	1,648	30
73	605801	D-129	Oil	2,445	900	3,346	498	1,398	3,844	87
74	382402	Jatibarang/Talang Akar-Oligocene/Miocene	Oil	727	1,181	1,908	195	1,377	2,104	91
75	605901	Lower Inoceramus	Gas	595	620	1,216	704	1,325	1,920	63
76	120701	Yenisey Foldbelt Riphean-Craton Margin Riphean	Oil	0	34	34	1,213	1,246	1,246	3
77	609001	La Luna-La Paz	Oil	1,915	512	2,426	709	1,220	3,135	77
78	718301	Cretaceous Composite	Oil	74	162	236	1,004	1,166	1,240	19
79	370201	Sarawak Basin	Gas	168	629	797	529	1,159	1,327	60
80	393001	Latrobe	Oil	3,077	784	3,860	310	1,093	4,170	93
81	391301	Late Jurassic/Early Cretaceous-Mesozoic	Gas	19	27	46	1,055	1,083	1,101	4
82	382801	Lahat/Talang Akar-Cenozoic	Oil	1,842	587	2,429	469	1,055	2,898	84
83	606301	Lower Cretaceous Marine	Oil	0	10	10	1,031	1,041	1,041	1
84	110903	Stavropol-Prikumsk	Oil	1,200	(-380)	820	1,407	(1,027)	2,227	37
85	105001	South and North Barents Triassic-Jurassic	Gas	0	51	51	955	1,006	1,007	5
86	115401	Amu-Darya Jurassic-Cretaceous	Gas	80	686	766	270	957	1,037	74
87	201602	Middle Cretaceous Natih	Oil	1,299	553	1,852	371	925	2,224	83
88	804801	Eocene to Miocene Composite	Gas	528	188	716	724	912	1,441	50
89	382401	Banuwati-Oligocene/Miocene	Oil	828	431	1,259	462	894	1,722	73
90	720304	Cuanza Composite	Oil	86	20	107	790	810	897	12
91	312801	Yanchang-Yanan	Oil	81	602	683	138	740	821	83
92	611701	Upper Jurassic-Neocomian	Oil	65	232	297	494	726	790	38
93	403601	Carboniferous-Rotliegend	Gas	2,300	572	2,872	143	715	3,015	95
94	406101	Moesian Platform Composite	Oil	1,251	542	1,793	171	713	1,963	91
95	524404	Lodgepole	Oil	2,239	539	2,778	111	650	2,889	96
96	370302	Miocene Coaly Strata	Gas	58	533	592	101	634	693	85
97	404702	Mesozoic/Paleogene Composite	Oil	640	283	923	344	627	1,267	73
98	406002	Meride/Riva di Solto	Oil	78	254	332	360	614	692	48
99	524306	Second White Specks-Cardium	Oil	2,146	543	2,688	36	578	2,724	99
100	524303	Exshaw-Rundle	Oil	1,292	435	1,728	126	561	1,854	93
101	404801	Greater Hungarian Plain Neogene	Oil	731	358	1,089	196	555	1,285	85
102	204802	Jurassic-Cretaceous Composite	Oil	39	64	103	403	467	506	20
103	205803	Tanezzuft-Sbaa	Oil	0	284	284	162	446	446	64
104	382201	Bampo-Cenozoic	Gas	496	178	674	213	391	887	76
105	406801	Pre-Messinian	Gas	0	0	0	388	388	388	0
106	524304	Combined Triassic/Jurassic	Oil	1,012	284	1,296	96	380	1,393	93
107	404802	Zala-Drava-Sava Mesozoic/Neogene	Oil	836	265	1,101	114	379	1,215	91
108	311502	Jurassic Coal-Jurassic/Tertiary	Oil	16	193	210	96	289	306	69
109	802601	Patala-Namal	Oil	204	121	324	145	266	469	69
110	524301	Keg River-Keg River	Oil	835	176	1,011	84	260	1,095	92
111	608302	Cretaceous-Paleogene	Oil	118	53	171	200	252	370	46
112	115002	North Ustyurt Jurassic	Oil	0	80	80	139	220	220	37
113	804201	Sembar-Goru/Ghazij	Gas	111	70	180	119	188	299	60

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
114	701301	Cretaceous-Tertiary Composite	Oil	0	10	10	157	167	168	6
115	391001	Milligans-Carboniferous/Permian	Oil	0	15	15	140	155	155	10
116	205805	Tanezzuft-Benoud	Gas	16	72	88	72	144	160	55
117	394802	Locker-Mungaroo/Barrow	Gas	0	6	6	132	137	137	4
118	370202	East Natuna	Gas	0	20	20	102	122	122	16
119	730301	Cretaceous Composite	Gas	0	0	0	116	116	116	0
120	314202	Daanzhai-Daanzhai/Lianggaoshan	Oil	38	71	109	27	99	136	80
121	604102	Paleozoic	Oil	0	0	0	74	74	74	0
122	404806	Hungarian Paleogene	Oil	10	1	11	49	50	60	18
123	404703	Paleozoic Composite	Oil	0	1	1	47	47	47	1
124	804703	Jenam/Bhuban-Bokabil	Gas	3	2	4	39	41	43	10
125	608301	Neogene	Oil	4	0	4	37	37	41	11
126	205802	Tanezzuft-Ahnet	Gas	0	1	1	34	35	35	3
127	205801	Tanezzuft-Timimoun	Gas	0	0	0	31	31	31	0
128	610301	Lower Cruse	Gas	0	20	20	0	20	20	100
129	205806	Tanezzuft-Bechar/Abadla	Gas	0	0	0	16	16	16	0
130	524403	Bakken	Oil	5	2	7	11	13	18	40
131	205804	Tanezzuft-Mouydir	Gas	0	0	0	12	12	12	0
132	524402	Brightholme	Oil	11	4	14	8	11	22	66
133	524401	Yeoman	Oil	1	0	1	5	6	6	15
134	314402	Jurassic Coal-Denglouku/Nongan	Gas	0	5	5	0	5	5	100
135	101502	Belsk Basin	Gas	106	(-41)	65	42	(1)	106	61
136	404701	Isotopically Light Gas	Gas	1	1	1	0	1	1	100
137	203002	Paleozoic-Permian/Triassic	Gas	0	0	0	0	0	0	NA
138	314201	Maokou/Longtang-Jialingjiang/Maokou/Huanglong	Gas	0	0	0	0	0	0	100
139	391002	Keyling/Hyland Bay-Permian	Gas	0	0	0	0	0	0	NA
140	404803	Danube Neogene	Gas	0	0	0	0	0	0	NA
141	404804	Transcarpathian Neogene	Gas	0	0	0	0	0	0	NA
142	405701	Transylvanian Composite	Gas	0	0	0	0	0	0	NA
143	406001	Porto Garibaldi	Gas	13	0	14	0	0	14	100
144	524305	Mannville-Upper Mannville	Gas	0	0	0	0	0	0	NA
145	314204	Cambrian/Silurian Marine Shale-Dengying/Lower Paleozoic	Gas	9	(-8)	1	0	(-8)	1	100
146	110801	Azov-Kuban Mesozoic-Cenozoic	Gas	1,273	(-750)	524	417	(-332)	941	56
NA	115003	North Ustyurt Paleozoic	NA	NA	NA	NA	0	NA	NA	NA
NA	311503	Lucaogou/Jurassic Coal-Paleozoic/Mesozoic	NA	0	0	0	NA	NA	NA	NA
NA	312702	Carboniferous/Permian Coal-Paleozoic	NA	0	0	0	NA	NA	NA	NA
NA	312802	Taiyuan/Shanxi-Majiagou/Shihezi	NA	0	0	0	NA	NA	NA	NA
NA	314203	Xujiahe-Xujiahe/Shaximiao	NA	NA	NA	NA	NA	NA	NA	NA
NA	382403	Tertiary-Parigi	NA	0	0	0	NA	NA	NA	NA
NA	382404	Tertiary-Cenozoic	NA	0	0	0	NA	NA	NA	NA
NA	404805	Central Carpathian Paleogene	NA	NA	NA	NA	NA	NA	NA	NA
NA	521502	Mesozoic Composite	NA	0	0	0	NA	NA	NA	NA

Rank	Total Petroleum System Code	Total Petroleum System Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
NA	602201	Neogene	NA	NA	NA	NA	0	NA	NA	NA
NA	605802	Aguada Bandera	NA	0	0	0	NA	NA	NA	NA
NA	804701	Permian Coal	NA	0	0	0	NA	NA	NA	NA
NA	804702	Jalangi-Sylhet/Burdwan Composite	NA	NA	NA	NA	64	NA	NA	NA

**Table AR-4a. Provinces ranked by mean (expected) undiscovered oil.**

[MMBO, million barrels of oil. Values given are not necessarily those for the entire province, but only for that part assessed in World Petroleum Assessment 2000. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative oil is the reported volume of oil that has been produced. Remaining oil is the calculated remaining reserves; the difference between known and cumulative oil. Known oil is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered oil is the mean volume estimated in World Petroleum Assessment 2000. Future oil is the remaining oil plus estimated mean undiscovered oil. Oil endowment is the known oil plus estimated mean undiscovered oil volumes. Discovery maturity is the percentage of oil discovered (known oil) with respect to oil endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. Negative values result from inconsistent reporting of cumulative and known volumes. Values in parentheses () are questionable data. NA means not applicable; it is shown for all values except mean undiscovered oil if only one field is present in the province.]

Rank	Province Code	Province Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
1	2024	Mesopotamian Foredeep Basin	Oil	56,746	235,696	292,442	61,134	296,830	353,576	83
2	1174	West Siberian Basin	Oil	46,530	93,383	139,913	55,235	148,618	195,148	72
3	5200	East Greenland Rift Basins	Oil	0	0	0	47,148	47,148	47,148	0
4	2030	Zagros Fold Belt	Oil	49,367	72,234	121,601	45,459	117,693	167,060	73
5	7192	Niger Delta	Oil	16,598	17,925	34,522	40,487	58,412	75,010	46
6	2019	Rub Al Khali Basin	Oil	19,320	70,507	89,827	36,647	107,154	126,474	71
7	7203	West-Central Coastal	Oil	5,765	7,952	13,717	29,747	37,699	43,464	32
8	1016	North Caspian Basin	Oil	822	9,987	10,808	23,320	33,307	34,128	32
9	6036	Santos Basin	Oil	6	279	285	23,209	23,488	23,494	1
10	2023	Widyan Basin-Interior Platform	Oil	219	17,216	17,435	21,215	38,431	38,650	45
11	2020	Interior Homocline-Central Arch	Oil	84	4,616	4,700	16,495	21,111	21,195	22
12	6035	Campos Basin	Oil	1,769	8,287	10,056	16,293	24,580	26,349	38
13	1112	South Caspian Basin	Oil	11,681	5,758	17,438	15,725	21,483	33,163	53
14	6021	Guyana-Suriname Basin	Oil	17	46	63	15,247	15,293	15,310	0
15	2021	Greater Ghawar Uplift	Oil	57,744	83,956	141,700	13,830	97,786	155,530	91
16	4025	North Sea Graben	Oil	22,467	21,427	43,895	13,098	34,526	56,993	77
17	6098	East Venezuela Basin	Oil	13,808	16,395	30,203	11,875	28,271	42,078	72
18	6099	Maracaibo Basin	Oil	35,581	13,491	49,072	8,183	21,675	57,256	86
19	5305	Villahermosa Uplift	Oil	14,640	20,382	35,022	7,436	27,818	42,457	82
20	5304	Saline-Comalcalco Basin	Oil	1,673	686	2,359	7,018	7,703	9,377	25
21	2043	Sirte Basin	Oil	13,986	23,087	37,072	6,854	29,941	43,927	84
22	4017	Vestford-Helgeland	Oil	76	2,585	2,660	6,538	9,123	9,199	29
23	2054	Trias/Ghadames Basin	Oil	7,410	7,793	15,203	6,477	14,270	21,680	70
24	3154	Tarim Basin	Oil	45	658	704	5,948	6,606	6,652	11
25	6060	Falklands Plateau	Oil	0	0	0	5,833	5,833	5,833	0
26	1008	Timan-Pechora Basin	Oil	3,346	9,774	13,120	5,732	15,506	18,852	70
27	2071	Red Sea Basin	Oil	6,280	3,580	9,861	5,187	8,767	15,048	66
28	3817	Kutei Basin	Oil	2,195	684	2,879	5,145	5,829	8,024	36



Rank	Province Code	Province Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
29	2022	Qatar Arch	Gas	0	1,150	1,150	5,026	6,176	6,176	19
30	1109	Middle Caspian Basin	Oil	4,359	5,193	9,551	4,887	10,080	14,439	66
31	3127	Bohaiwan Basin	Oil	10,415	14,139	24,553	4,412	18,550	28,965	85
32	6096	Llanos Basin	Oil	1,179	4,224	5,402	3,631	7,855	9,033	60
33	3701	Baram Delta/Brunei-Sabah Basin	Oil	3,953	2,945	6,898	3,390	6,335	10,288	67
34	6041	Putumayo-Oriente-Maranon Basin	Oil	2,889	3,712	6,601	3,098	6,810	9,699	68
35	6034	Espirito Santo Basin	Oil	93	37	130	2,959	2,995	3,089	4
36	2056	Illizi Basin	Oil	2,286	1,384	3,670	2,947	4,331	6,617	55
37	6037	Pelotas Basin	Oil	0	0	0	2,938	2,938	2,938	0
38	1322	North Sakhalin Basin	Oil	754	1,428	2,182	2,582	4,010	4,764	46
39	1015	Volga-Ural Region	Oil	42,690	21,247	63,937	2,549	23,796	66,485	96
40	5307	Campeche-Sigsbe Salt Basin	Oil	0	0	0	2,478	2,478	2,478	0
41	3948	Northwest Shelf	Gas	473	647	1,119	2,381	3,028	3,500	32
42	6045	Santa Cruz-Tarija Basin	Oil	257	63	320	2,145	2,209	2,466	13
43	8043	Bombay	Oil	3,375	5,065	8,440	2,091	7,156	10,531	80
44	5215	Labrador-Newfoundland Shelf	Oil	0	1,582	1,582	1,796	3,378	3,378	47
45	6081	Talara Basin	Oil	1,346	326	1,672	1,711	2,038	3,383	49
46	6107	Lesser Antilles Deformed Belt	Oil	8	2	11	1,536	1,538	1,546	1
47	6029	Sergipe-Alagoas Basin	Oil	469	223	692	1,487	1,711	2,179	32
48	6055	Neuquen Basin	Oil	1,532	838	2,370	1,290	2,128	3,659	65
49	3910	Bonaparte Gulf Basin	Gas	123	393	517	1,286	1,679	1,803	29
50	2048	Pelagian Basin	Oil	521	1,719	2,239	1,268	2,986	3,507	64
51	3703	Malay Basin	Oil	1,518	2,090	3,608	1,228	3,318	4,836	75
52	1207	Baykit Arch	Oil	0	34	34	1,213	1,246	1,246	3
53	1210	Nepa-Botuoba Arch	Oil	1	2,005	2,006	1,208	3,213	3,214	62
54	1009	Dnieper-Donets Basin	Gas	110	1,501	1,611	1,098	2,599	2,709	59
55	2009	Masila-Jeza Basin	Oil	144	488	632	1,096	1,584	1,728	37
56	3913	Browse Basin	Gas	19	27	46	1,055	1,083	1,101	4
57	6063	Malvinas Basin	Oil	0	10	10	1,031	1,041	1,041	1
58	3144	Songliao Basin	Oil	12,399	3,176	15,575	1,026	4,203	16,601	94
59	2016	Fahud Salt Basin	Oil	2,555	1,918	4,473	1,020	2,938	5,493	81
60	4061	Carpathian-Balkanian Basin	Oil	4,083	1,825	5,908	1,013	2,838	6,921	85
61	7183	Gulf of Guinea	Oil	74	162	236	1,004	1,166	1,240	19
62	2004	Ma'Rib-Al Jawf/Masila Basin	Oil	504	683	1,188	959	1,643	2,147	55
63	5302	Veracruz Basin	Oil	51	79	130	955	1,034	1,085	12
64	1150	North Ustyurt Basin	Oil	459	1,907	2,366	954	2,861	3,320	71
65	2010	Ghudun-Khasfeh Flank Province	Oil	0	0	0	926	926	926	0
66	3808	Central Sumatra Basin	Oil	8,349	4,868	13,217	899	5,768	14,117	94
67	5301	Tampico-Misantla Basin	Oil	5,773	1,122	6,895	893	2,015	7,787	89
68	5310	Sierra Madre de Chiapas-Peten Foldbelt	NA	NA	NA	NA	890	NA	NA	NA
69	5243	Alberta Basin	Oil	12,821	2,458	15,279	818	3,276	16,097	95
70	5308	Yucatan Platform	Oil	0	0	0	754	754	754	0
71	2075	Euphrates/Mardin	Oil	282	312	594	749	1,061	1,343	44

Rank	Province Code	Province Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
72	8048	Irrawaddy	Gas	527	188	715	724	912	1,439	50
73	6090	Middle Magdalena	Oil	1,915	512	2,426	709	1,220	3,135	77
74	6059	Magallanes Basin	Gas	595	620	1,216	704	1,325	1,920	63
75	2006	Shabwah Basin	Oil	0	113	113	685	798	798	14
76	3824	Northwest Java Basin	Oil	1,555	1,613	3,168	658	2,271	3,825	83
77	3702	Greater Sarawak Basin	Gas	168	649	817	631	1,281	1,448	56
78	2058	Grand Erg/Ahnet Basin	Gas	106	388	494	599	986	1,093	45
79	3115	Junggar Basin	Oil	952	5,858	6,810	563	6,422	7,373	92
80	6058	San Jorge Basin	Oil	2,445	900	3,346	498	1,398	3,844	87
81	6117	Greater Antilles Deformed Belt	Oil	65	232	297	494	726	790	38
82	3828	South Sumatra Basin	Oil	1,842	587	2,429	469	1,055	2,898	84
83	2015	Central Oman Platform	Oil	3	68	71	424	493	495	14
84	1108	Azov-Kuban Basin	Gas	1,273	(-750)	524	417	(-332)	941	56
85	8034	Assam	Oil	911	1,625	2,536	399	2,024	2,935	86
86	4047	North Carpathian Basin	Oil	649	286	935	391	677	1,326	71
87	4068	Provence Basin	Gas	0	0	0	388	388	388	0
88	2014	Ghaba Salt Basin	Oil	466	878	1,344	371	1,250	1,715	78
89	4060	Po Basin	Gas	91	254	346	360	615	706	49
90	4048	Pannonian Basin	Oil	1,567	623	2,190	359	982	2,550	86
91	3930	Gippsland Basin	Oil	3,077	784	3,860	310	1,093	4,170	93
92	1154	Amu-Darya Basin	Gas	80	686	766	270	957	1,037	74
93	1209	Angara-Lena Terrace	Gas	0	0	0	242	242	242	0
94	6083	Progreso Basin	Oil	122	53	175	237	290	412	43
95	1050	South Barents Basin	Gas	0	0	0	219	219	219	0
96	3822	North Sumatra Basin	Gas	496	178	674	213	391	887	76
97	1211	Cis-Patom Foredeep	Gas	0	0	0	161	161	161	0
98	7013	Senegal	Oil	0	10	10	157	167	168	6
99	5244	Williston Basin, Canada	Oil	2,696	809	3,506	154	963	3,660	96
100	8026	Kohat-Potwar	Oil	201	120	321	149	268	469	68
101	3128	Ordos Basin	Oil	81	602	683	138	740	821	83
102	1060	North Barents Basin	Gas	0	0	0	135	135	135	0
103	7303	Orange River Coastal	Gas	0	0	0	116	116	116	0
104	2074	Khleisha Uplift	Oil	250	407	657	105	512	762	86
105	8042	Indus	Gas	111	70	180	103	173	283	64
106	8047	Ganges-Brahmaputra Delta	Gas	3	3	5	103	105	108	5
107	5306	Macuspana Basin	Oil	2	4	6	101	105	108	6
108	2011	South Oman Salt Basin	Oil	203	297	500	97	394	596	84
109	2047	Hamra Basin	Oil	0	0	0	89	89	89	0
110	4036	Anglo-Dutch Basin	Gas	432	159	592	88	247	679	87
111	4035	Northwest German Basin	Gas	1,867	413	2,280	56	468	2,336	98
112	2025	Hail-Ga'Ara Arch	Gas	0	0	0	53	53	53	0
113	2028	Rutbah Uplift	Gas	0	0	0	53	53	53	0
114	1059	Ludlov Saddle	NA	NA	NA	NA	39	NA	NA	NA

Rank	Province Code	Province Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
115	2031	Zagros Thrust Zone	Gas	0	0	0	38	38	38	0
116	2013	Huqf-Haushi Uplift	Oil	0	0	0	30	30	30	0
117	5316	Trans-Mexican Neovolcanic Axis	NA	NA	NA	NA	30	NA	NA	NA
118	3142	Sichuan Basin	Gas	47	63	110	27	91	138	80
119	2089	Anah Graben	Oil	75	80	155	26	106	181	85
120	2017	Oman Mountains	Oil	0	0	0	22	22	22	0
121	5317	Chicontepec Basin	Oil	0	0	0	15	15	15	1
122	8025	Sulaiman-Kirthar	Gas	0	0	0	12	12	12	0
123	5245	Rocky Mountain Deformed Belt	Gas	176	22	198	6	28	204	97
124	1158	Tian Shan Foldbelt	NA	NA	NA	NA	0	NA	NA	NA
125	2029	Wadi-Surhan Basin	Gas	0	0	0	0	0	0	NA
126	2033	Sinai Basin	Oil	94	11	105	0	11	105	100
127	2061	Ougarta Uplift	Oil	0	41	41	0	41	41	100
128	3161	Yunnan Guizhou Hubei Fold Belt	NA	NA	NA	NA	0	NA	NA	NA
129	3916	Carnarvon Basin	Oil	16	19	35	0	19	35	100
130	4028	Mid-North Sea High	NA	NA	NA	NA	0	NA	NA	NA
131	4033	German-Polish Basin	Gas	0	0	0	0	0	0	100
132	4038	Munsterland Basin	Gas	0	0	0	0	0	0	NA
133	4039	Southwest German Basin	NA	NA	NA	NA	0	NA	NA	NA
134	4046	Bohemia	Gas	1	0	1	0	0	1	100
135	4057	Transylvanian Basin	Gas	0	0	0	0	0	0	NA
136	5246	Mackenzie Foldbelt	Gas	0	0	0	0	0	0	NA
137	6022	Foz do Amazonas Basin	NA	NA	NA	NA	0	NA	NA	NA
138	6103	Tobago Trough	Gas	0	20	20	0	20	20	100
139	8002	Himalayan	NA	NA	NA	NA	0	NA	NA	NA
140	8023	Central Afghanistan	Gas	0	0	0	0	0	0	NA
141	8035	North Burma	Oil	1	0	1	0	0	1	100

**Table AR-4b. Provinces ranked by mean (expected) undiscovered gas.**

[BCFG, billion cubic feet of gas. Values given are not necessarily those for the entire province, but only for that part assessed in World Petroleum Assessment 2000. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative gas is the reported volume of gas that has been produced. Remaining gas is the calculated remaining reserves; the difference between known and cumulative gas. Known gas is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered gas is the mean volume estimated in World Petroleum Assessment 2000. Future gas is the remaining gas plus estimated mean undiscovered gas. Gas endowment is the known gas plus estimated mean undiscovered gas volumes. Discovery maturity is the percentage of gas discovered (known gas) with respect to gas endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. Negative values result from inconsistent reporting of cumulative and known volumes. Values in parentheses ( ) are questionable data. NA means not applicable; it is shown for all values except mean undiscovered gas if only one field is present in the province.]

Rank	Province Code	Province Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
1	1174	West Siberian Basin	Oil	218,465	1,051,584	1,270,049	642,934	1,694,518	1,912,983	66
2	2019	Rub Al Khali Basin	Oil	8,303	173,934	182,237	425,712	599,646	607,949	30
3	2021	Greater Ghawar Uplift	Oil	26,493	222,057	248,550	226,969	449,026	475,519	52
4	2030	Zagros Fold Belt	Oil	10,333	389,111	399,444	212,008	601,119	611,451	65
5	1112	South Caspian Basin	Oil	8,591	27,403	35,994	173,310	200,713	209,304	17
6	4017	Vestford-Helgeland	Oil	0	15,662	15,662	165,201	180,863	180,863	9
7	1154	Amu-Darya Basin	Gas	78,513	151,830	230,343	163,650	315,480	393,993	58
8	1050	South Barents Basin	Gas	0	70,020	70,020	160,857	230,877	230,877	30
9	7192	Niger Delta	Oil	6,232	87,579	93,811	132,716	220,295	226,526	41
10	2020	Interior Homocline-Central Arch	Oil	0	9,825	9,825	122,074	131,899	131,899	7
11	1016	North Caspian Basin	Oil	1,745	155,161	156,906	119,051	274,212	275,957	57
12	2023	Widyan Basin-Interior Platform	Oil	60	7,295	7,355	94,746	102,041	102,101	7
13	6098	East Venezuela Basin	Oil	22,053	106,066	128,119	93,561	199,627	221,679	58
14	7203	West-Central Coastal	Oil	1,150	11,030	12,180	88,044	99,074	100,223	12
15	2024	Mesopotamian Foredeep Basin	Oil	13,129	285,156	298,285	83,722	368,878	382,007	78
16	5200	East Greenland Rift Basins	Oil	0	0	0	80,709	80,709	80,709	0
17	6036	Santos Basin	Oil	12	1,113	1,125	80,547	81,660	81,672	1
18	3817	Kutei Basin	Oil	8,711	36,762	45,473	64,757	101,519	110,230	41
19	3948	Northwest Shelf	Gas	1,840	54,405	56,245	64,711	119,116	120,956	47
20	2071	Red Sea Basin	Oil	849	8,668	9,517	60,012	68,680	69,529	14
21	3154	Tarim Basin	Oil	208	5,572	5,780	59,939	65,511	65,719	9
22	1060	North Barents Basin	Gas	0	0	0	59,820	59,820	59,820	0
23	1322	North Sakhalin Basin	Oil	162	22,221	22,383	57,451	79,673	79,835	28
24	8047	Ganges-Brahmaputra Delta	Gas	2,669	9,620	12,289	55,091	64,711	67,380	18
25	1008	Timan-Pechora Basin	Oil	12,374	24,261	36,635	52,079	76,340	88,714	41
26	4068	Provence Basin	Gas	0	0	0	51,210	51,210	51,210	0
27	6021	Guyana-Suriname Basin	Oil	0	0	0	42,058	42,058	42,058	0
28	1109	Middle Caspian Basin	Oil	9,984	17,156	27,140	39,685	56,841	66,825	41

Rank	Province Code	Province Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
29	4025	North Sea Graben	Oil	31,235	128,603	159,839	37,745	166,348	197,584	81
30	6034	Espirito Santo Basin	Oil	42	180	222	34,287	34,467	34,509	1
31	6045	Santa Cruz-Tarija Basin	Oil	6,928	10,058	16,985	31,107	41,165	48,092	35
32	1210	Nepa-Botuoba Arch	Oil	0	22,035	22,035	29,971	52,006	52,006	42
33	6022	Foz do Amazonas Basin	NA	NA	NA	NA	29,840	NA	NA	NA
34	1059	Ludlov Saddle	NA	NA	NA	NA	28,387	NA	NA	NA
35	2056	Illizi Basin	Oil	750	44,311	45,061	28,138	72,449	73,199	62
36	3703	Malay Basin	Oil	492	47,657	48,149	27,465	75,122	75,614	64
37	1009	Dnieper-Donets Basin	Gas	35,453	23,645	59,098	24,051	47,697	83,149	71
38	3910	Bonaparte Gulf Basin	Gas	0	13,304	13,304	23,492	36,796	36,796	36
39	3701	Baram Delta/Brunei-Sabah Basin	Oil	9,188	27,012	36,200	23,226	50,238	59,426	61
40	6037	Pelotas Basin	Oil	0	0	0	22,806	22,806	22,806	0
41	8048	Irrawaddy	Gas	721	9,288	10,009	20,521	29,809	30,530	33
42	6103	Tobago Trough	Gas	0	22,600	22,600	20,103	42,703	42,703	53
43	3913	Browse Basin	Gas	0	17,960	17,960	20,093	38,053	38,053	47
44	6035	Campos Basin	Oil	303	5,941	6,244	19,691	25,632	25,935	24
45	3702	Greater Sarawak Basin	Gas	3,731	78,433	82,164	19,247	97,680	101,411	81
46	3828	South Sumatra Basin	Oil	3,125	7,080	10,204	18,250	25,330	28,455	36
47	4060	Po Basin	Gas	9,527	9,360	18,886	17,964	27,324	36,850	51
48	6099	Maracaibo Basin	Oil	979	25,722	26,701	17,576	43,298	44,277	60
49	2054	Trias/Ghadames Basin	Oil	647	24,352	24,999	17,493	41,845	42,492	59
50	2022	Qatar Arch	Gas	1,018	464,582	465,600	17,385	481,967	482,985	96
51	1207	Baykit Arch	Oil	0	5,052	5,052	16,983	22,035	22,035	23
52	6060	Falklands Plateau	Oil	0	0	0	16,581	16,581	16,581	0
53	5304	Saline-Comalcalco Basin	Oil	1,023	1,223	2,246	16,423	17,645	18,669	12
54	8042	Indus	Gas	8,385	11,211	19,596	15,964	27,175	35,560	55
55	5305	Villahermosa Uplift	Oil	13,888	27,404	41,292	15,623	43,027	56,915	73
56	3822	North Sumatra Basin	Gas	13,977	11,582	25,559	15,123	26,705	40,682	63
57	2043	Sirte Basin	Oil	5,479	32,288	37,767	14,984	47,272	52,752	72
58	4036	Anglo-Dutch Basin	Gas	40,547	30,880	71,427	14,976	45,856	86,402	83
59	6059	Magallanes Basin	Gas	10,053	14,754	24,807	14,040	28,794	38,848	64
60	8043	Bombay	Oil	6,228	17,965	24,193	12,944	30,909	37,137	65
61	8025	Sulaiman-Kirthar	Gas	6,716	9,061	15,777	12,599	21,659	28,376	56
62	6055	Neuquen Basin	Oil	7,636	13,068	20,704	12,416	25,483	33,119	63
63	1108	Azov-Kuban Basin	Gas	7,492	11,118	18,610	12,252	23,369	30,861	60
64	6107	Lesser Antilles Deformed Belt	Oil	16	7	22	11,957	11,963	11,979	0
65	5243	Alberta Basin	Oil	47,573	31,097	78,670	11,895	42,992	90,565	87
66	6063	Malvinas Basin	Oil	0	75	75	11,327	11,402	11,402	1
67	4035	Northwest German Basin	Gas	76,285	65,440	141,726	10,814	76,254	152,539	93
68	1150	North Ustyurt Basin	Oil	0	2,413	2,413	10,770	13,183	13,183	18
69	1209	Angara-Lena Terrace	Gas	0	8,075	8,075	10,705	18,780	18,780	43
70	3142	Sichuan Basin	Gas	6,236	6,290	12,526	10,311	16,601	22,837	55
71	7183	Gulf of Guinea	Oil	46	1,903	1,949	10,071	11,974	12,020	16

Rank	Province Code	Province Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
72	5215	Labrador-Newfoundland Shelf	Oil	0	6,630	6,630	8,893	15,522	15,522	43
73	2058	Grand Erg/Ahnet Basin	Gas	4,980	109,053	114,034	8,664	117,717	122,697	93
74	3127	Bohaiwan Basin	Oil	2,987	12,685	15,672	8,514	21,199	24,186	65
75	6029	Sergipe-Alagoas Basin	Oil	348	1,059	1,407	8,334	9,393	9,741	14
76	2029	Wadi-Surhan Basin	Gas	47	179	226	7,873	8,052	8,099	3
77	3824	Northwest Java Basin	Oil	1,026	7,028	8,055	7,453	14,481	15,508	52
78	2009	Masila-Jeza Basin	Oil	0	40	40	6,793	6,833	6,833	1
79	6096	Llanos Basin	Oil	139	15,175	15,314	6,217	21,391	15,651	98
80	2004	Ma'Rib-Al Jawf/Masila Basin	Oil	0	16,507	16,507	5,944	22,451	22,451	74
81	5302	Veracruz Basin	Oil	335	270	605	5,832	6,102	6,437	9
82	3144	Songliao Basin	Oil	3	1,739	1,743	5,706	7,446	7,449	23
83	3930	Gippsland Basin	Oil	3,501	6,274	9,775	5,658	11,932	15,433	63
84	2010	Ghudun-Khasfeh Flank Province	Oil	0	0	0	5,623	5,623	5,623	0
85	5307	Campeche-Sigsbe Salt Basin	Oil	0	0	0	5,565	5,565	5,565	0
86	2048	Pelagian Basin	Oil	43	17,167	17,210	5,556	22,724	22,766	76
87	1211	Cis-Patom Foredeep	Gas	0	100	100	5,364	5,464	5,464	2
88	2014	Ghaba Salt Basin	Oil	138	18,825	18,964	5,056	23,881	24,019	79
89	4047	North Carpathian Basin	Oil	8,714	7,618	16,332	5,049	12,667	21,381	76
90	2016	Fahud Salt Basin	Oil	1,151	8,832	9,983	4,878	13,710	14,861	67
91	6081	Talara Basin	Oil	1,951	941	2,892	4,795	5,736	7,687	38
92	2006	Shabwah Basin	Oil	0	573	573	4,246	4,819	4,819	12
93	4048	Pannonian Basin	Oil	6,534	7,308	13,842	4,143	11,452	17,986	77
94	3808	Central Sumatra Basin	Oil	910	2,956	3,866	4,078	7,034	7,944	49
95	1015	Volga-Ural Region	Oil	16,417	82,750	99,166	3,941	86,691	103,108	96
96	6058	San Jorge Basin	Oil	1,667	1,898	3,565	3,774	5,672	7,339	49
97	7303	Orange River Coastal	Gas	0	6,015	6,015	3,603	9,618	9,618	63
98	6090	Middle Magdalena	Oil	2,310	2,692	5,002	3,292	5,985	8,294	60
99	2015	Central Oman Platform	Oil	0	742	742	3,239	3,980	3,981	19
100	5245	Rocky Mountain Deformed Belt	Gas	8,662	6,447	15,109	3,186	9,633	18,295	83
101	4061	Carpathian-Balkanian Basin	Oil	3,126	4,139	7,265	3,179	7,319	10,445	70
102	2074	Khleisha Uplift	Oil	0	210	210	2,580	2,790	2,790	8
103	4057	Transylvanian Basin	Gas	21,194	9,537	30,731	2,083	11,620	32,814	94
104	5301	Tampico-Misantla Basin	Oil	2,354	4,306	6,661	2,051	6,358	8,712	76
105	5310	Sierra Madre de Chiapas-Peten Foldbelt	NA	NA	NA	NA	1,846	NA	NA	NA
106	6041	Putumayo-Oriente-Maranon Basin	Oil	661	955	1,616	1,596	2,552	3,212	50
107	5308	Yucatan Platform	Oil	0	0	0	1,496	1,496	1,496	0
108	8026	Kohat-Potwar	Oil	784	1,147	1,931	1,314	2,460	3,245	60
109	3115	Junggar Basin	Oil	501	2,082	2,583	1,296	3,379	3,879	67
110	2025	Hail-Ga'Ara Arch	Gas	0	0	0	1,290	1,290	1,290	0
111	2028	Rutbah Uplift	Gas	0	0	0	1,290	1,290	1,290	0
112	2011	South Oman Salt Basin	Oil	0	188	188	1,236	1,424	1,424	13
113	8034	Assam	Oil	2,039	4,495	6,534	1,178	5,673	7,712	85
114	2031	Zagros Thrust Zone	Gas	0	0	0	966	966	966	0

Rank	Province Code	Province Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
115	7013	Senegal	Oil	4	45	49	856	901	905	5
116	2075	Euphrates/Mardin	Oil	66	1,668	1,734	749	2,418	2,483	70
117	6083	Progreso Basin	Oil	148	350	498	695	1,044	1,193	42
118	6117	Greater Antilles Deformed Belt	Oil	20	77	96	592	668	688	14
119	5244	Williston Basin, Canada	Oil	10,378	6,876	17,254	502	7,379	17,756	97
120	2013	Huqf-Haushi Uplift	Oil	0	0	0	404	404	404	0
121	2047	Hamra Basin	Oil	0	0	0	241	241	241	0
122	5306	Macuspana Basin	Oil	8	8	16	210	217	225	7
123	5316	Trans-Mexican Neovolcanic Axis	NA	NA	NA	NA	195	NA	NA	NA
124	5246	Mackenzie Foldbelt	Gas	379	252	631	43	295	674	94
125	2089	Anah Graben	Oil	0	0	0	39	39	39	0
126	5317	Chicontepec Basin	Oil	0	2	2	32	34	34	6
127	2017	Oman Mountains	Oil	0	0	0	22	22	22	0
128	3128	Ordos Basin	Oil	13	5,597	5,610	20	5,617	5,630	100
129	1158	Tian Shan Foldbelt	NA	NA	NA	NA	0	NA	NA	NA
130	2033	Sinai Basin	Oil	0	5	5	0	5	5	100
131	2061	Ougarta Uplift	Oil	0	6	6	0	6	6	100
132	3161	Yunnan Guizhou Hubei Fold Belt	NA	NA	NA	NA	0	NA	NA	NA
133	3916	Carnarvon Basin	Oil	32	70	102	0	70	102	100
134	4028	Mid-North Sea High	NA	NA	NA	NA	0	NA	NA	NA
135	4033	German-Polish Basin	Gas	6,905	940	7,846	0	940	7,846	100
136	4038	Munsterland Basin	Gas	121	31	152	0	31	152	100
137	4039	Southwest German Basin	NA	NA	NA	NA	0	NA	NA	NA
138	4046	Bohemia	Gas	114	117	231	0	117	231	100
139	8002	Himalayan	NA	NA	NA	NA	0	NA	NA	NA
140	8023	Central Afghanistan	Gas	27	244	271	0	244	271	100
141	8035	North Burma	Oil	1	10	11	0	10	11	100

**Table AR-4c. Provinces ranked by total mean (expected) undiscovered petroleum.**

[MMBOE, million barrels of oil equivalent. Values given are not necessarily those for the entire province, but only for that part assessed in World Petroleum Assessment 2000. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Total cumulative petroleum is the reported volume of total petroleum that has been produced. Total remaining petroleum is the calculated remaining reserves; the difference between total known and total cumulative petroleum. Total known petroleum is the reported discovered volume (cumulative production plus remaining reserves). Total mean undiscovered petroleum is derived from the mean volumes of oil, gas, and NGL estimated in World Petroleum Assessment 2000. Total future petroleum is the total remaining petroleum plus estimated total mean undiscovered petroleum. Total petroleum endowment is the total known petroleum plus estimated total mean undiscovered petroleum volumes. Discovery maturity is the percentage of total petroleum discovered (total known petroleum) with respect to total petroleum endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. NA means not applicable; it is shown for all values except total mean undiscovered petroleum if only one field is present in the province.]

Rank	Province Code	Province Name	Major Commodity	Total Cumulative Petroleum (MMBOE)	Total Remaining Petroleum (MMBOE)	Total Known Petroleum (MMBOE)	Total Mean Undiscovered Petroleum (MMBOE)	Total Future Petroleum (MMBOE)	Total Petroleum Endowment (MMBOE)	Discovery Maturity, Total Petroleum (%)
1	1174	West Siberian Basin	Oil	83,213	271,517	354,730	182,864	454,380	537,593	66
2	2019	Rub Al Khali Basin	Oil	20,998	101,760	122,757	137,868	239,627	260,625	47
3	2030	Zagros Fold Belt	Oil	51,102	138,437	189,539	90,292	228,729	279,831	68
4	2024	Mesopotamian Foredeep Basin	Oil	58,934	285,059	343,993	78,159	363,217	422,151	81
5	7192	Niger Delta	Oil	17,646	35,353	53,000	68,640	103,994	121,640	44
6	5200	East Greenland Rift Basins	Oil	0	0	0	64,769	64,769	64,769	0
7	2021	Greater Ghawar Uplift	Oil	62,169	129,511	191,680	63,808	193,319	255,488	75
8	1112	South Caspian Basin	Oil	13,334	10,607	23,941	52,725	63,332	76,665	31
9	7203	West-Central Coastal	Oil	5,957	9,854	15,811	48,665	58,519	64,476	25
10	1016	North Caspian Basin	Oil	1,322	44,528	45,850	48,573	93,101	94,423	49
11	2020	Interior Homocline-Central Arch	Oil	84	6,516	6,601	46,132	52,648	52,733	13
12	2023	Widyan Basin-Interior Platform	Oil	229	18,457	18,686	43,855	62,312	62,541	30
13	4017	Vestford-Helgeland	Oil	76	5,897	5,973	43,062	48,959	49,035	12
14	6036	Santos Basin	Oil	12	505	517	40,828	41,332	41,344	1
15	6098	East Venezuela Basin	Oil	17,509	34,747	52,257	31,934	66,682	84,191	62
16	1154	Amu-Darya Basin	Gas	13,357	26,975	40,332	31,541	58,516	71,873	56
17	1050	South Barents Basin	Gas	0	11,770	11,770	30,377	42,147	42,147	28
18	6021	Guyana-Suriname Basin	Oil	17	46	63	24,586	24,632	24,649	0
19	4025	North Sea Graben	Oil	28,183	48,322	76,505	21,248	69,570	97,753	78
20	6035	Campos Basin	Oil	1,819	9,287	11,107	20,128	29,415	31,235	36
21	3154	Tarim Basin	Oil	80	1,776	1,856	19,250	21,026	21,106	9
22	2071	Red Sea Basin	Oil	6,445	5,298	11,744	18,533	23,832	30,277	39
23	3817	Kutei Basin	Oil	3,691	8,040	11,731	18,060	26,100	29,791	39
24	3948	Northwest Shelf	Gas	896	10,589	11,485	16,848	27,437	28,333	41



Rank	Province Code	Province Name	Major Commodity	Total Cumulative Petroleum (MMBOE)	Total Remaining Petroleum (MMBOE)	Total Known Petroleum (MMBOE)	Total Mean Undiscovered Petroleum (MMBOE)	Total Future Petroleum (MMBOE)	Total Petroleum Endowment (MMBOE)	Discovery Maturity, Total Petroleum (%)
25	1008	Timan-Pechora Basin	Oil	5,771	14,171	19,942	16,598	30,769	36,539	55
26	1322	North Sakhalin Basin	Oil	785	5,292	6,077	15,156	20,449	21,234	29
27	1109	Middle Caspian Basin	Oil	6,071	8,083	14,153	13,171	21,254	27,324	52
28	6099	Maracaibo Basin	Oil	35,745	17,820	53,565	12,086	29,906	65,651	82
29	1060	North Barents Basin	Gas	0	0	0	11,355	11,355	11,355	0
30	4068	Provence Basin	Gas	0	0	0	11,188	11,188	11,188	0
31	5305	Villahermosa Uplift	Oil	17,004	24,993	41,997	10,957	35,950	52,955	79
32	5304	Saline-Comalcalco Basin	Oil	1,844	889	2,733	10,650	11,539	13,383	20
33	2054	Trias/Ghadames Basin	Oil	7,589	12,800	20,389	10,566	23,366	30,955	66
34	6034	Espirito Santo Basin	Oil	100	68	169	10,285	10,354	10,454	2
35	2043	Sirte Basin	Oil	14,929	28,566	43,496	10,000	38,566	53,496	81
36	8047	Ganges-Brahmaputra Delta	Gas	451	1,654	2,105	9,558	11,212	11,663	18
37	6060	Falklands Plateau	Oil	0	0	0	8,967	8,967	8,967	0
38	2022	Qatar Arch	Gas	183	92,332	92,515	8,908	101,239	101,423	91
39	6045	Santa Cruz-Tarija Basin	Oil	1,655	2,045	3,699	8,629	10,674	12,328	30
40	2056	Illizi Basin	Oil	2,485	9,593	12,078	8,536	18,129	20,614	59
41	3701	Baram Delta/Brunei-Sabah Basin	Oil	5,492	7,619	13,111	8,434	16,054	21,545	61
42	6037	Pelotas Basin	Oil	0	0	0	7,846	7,846	7,846	0
43	1210	Nepa-Botuoba Arch	Oil	1	5,974	5,976	7,643	13,618	13,619	44
44	3703	Malay Basin	Oil	1,609	10,346	11,955	6,319	16,665	18,274	65
45	3910	Bonaparte Gulf Basin	Gas	123	3,046	3,169	6,281	9,327	9,450	34
46	3127	Bohaiwan Basin	Oil	10,914	16,339	27,253	6,248	22,587	33,501	81
47	1009	Dnieper-Donets Basin	Gas	6,137	5,523	11,660	5,969	11,492	17,629	66
48	1059	Ludlov Saddle	NA	NA	NA	NA	5,361	NA	NA	NA
49	3913	Browse Basin	Gas	19	3,221	3,239	5,339	8,559	8,578	38
50	6022	Foz do Amazonas Basin	NA	NA	NA	NA	5,272	NA	NA	NA
51	6096	Llanos Basin	Oil	1,202	7,203	8,405	5,004	12,207	13,409	63
52	8048	Irrawaddy	Gas	649	1,797	2,446	4,930	6,726	7,376	33
53	1207	Baykit Arch	Oil	0	936	936	4,897	5,833	5,833	16
54	8043	Bombay	Oil	4,417	8,323	12,740	4,666	12,989	17,406	73
55	3702	Greater Sarawak Basin	Gas	846	14,044	14,890	4,301	18,345	19,191	78
56	6107	Lesser Antilles Deformed Belt	Oil	11	3	14	4,110	4,113	4,124	0
57	5215	Labrador-Newfoundland Shelf	Oil	0	2,875	2,875	3,792	6,667	6,667	48
58	3828	South Sumatra Basin	Oil	2,367	1,819	4,186	3,750	5,569	7,936	53
59	5307	Campeche-Sigsbe Salt Basin	Oil	0	0	0	3,714	3,714	3,714	0
60	6055	Neuquen Basin	Oil	2,883	3,276	6,159	3,562	6,838	9,721	63
61	6103	Tobago Trough	Gas	0	3,867	3,867	3,551	7,418	7,418	52
62	4060	Po Basin	Gas	1,706	1,820	3,526	3,476	5,296	7,002	50
63	6041	Putumayo-Oriente-Maranon Basin	Oil	2,999	3,871	6,871	3,418	7,290	10,289	67
64	1015	Volga-Ural Region	Oil	45,732	35,832	81,564	3,403	39,235	84,968	96
65	6059	Magallanes Basin	Gas	2,359	3,202	5,562	3,354	6,556	8,915	62

Rank	Province Code	Province Name	Major Commodity	Total Cumulative Petroleum (MMBOE)	Total Remaining Petroleum (MMBOE)	Total Known Petroleum (MMBOE)	Total Mean Undiscovered Petroleum (MMBOE)	Total Future Petroleum (MMBOE)	Total Petroleum Endowment (MMBOE)	Discovery Maturity, Total Petroleum (%)
66	8042	Indus	Gas	1,512	1,970	3,482	3,328	5,299	6,811	51
67	6029	Sergipe-Alagoas Basin	Oil	528	402	929	3,292	3,693	4,221	22
68	6063	Malvinas Basin	Oil	0	25	25	3,280	3,305	3,305	1
69	1150	North Ustyurt Basin	Oil	459	2,318	2,777	3,193	5,511	5,970	47
70	5243	Alberta Basin	Oil	22,342	8,760	31,101	3,128	11,888	34,229	91
71	7183	Gulf of Guinea	Oil	81	515	596	2,965	3,480	3,561	17
72	3822	North Sumatra Basin	Gas	3,409	2,451	5,860	2,914	5,365	8,774	67
73	6081	Talara Basin	Oil	1,715	439	2,154	2,765	3,204	4,919	44
74	1108	Azov-Kuban Basin	Gas	2,589	1,091	3,681	2,675	3,766	6,355	58
75	4036	Anglo-Dutch Basin	Gas	7,237	5,403	12,640	2,630	8,033	15,270	83
76	2009	Masila-Jeza Basin	Oil	144	496	641	2,598	3,094	3,238	20
77	8025	Sulaiman-Kirthar	Gas	1,121	1,535	2,657	2,553	4,089	5,210	51
78	1209	Angara-Lena Terrace	Gas	0	1,409	1,409	2,526	3,935	3,935	36
79	2058	Grand Erg/Ahnet Basin	Gas	1,783	22,752	24,534	2,449	25,201	26,984	91
80	2048	Pelagian Basin	Oil	528	4,646	5,174	2,323	6,970	7,497	69
81	2004	Ma'Rib-Al Jawf/Masila Basin	Oil	536	3,712	4,248	2,273	5,985	6,521	65
82	2010	Ghudun-Khasfeh Flank Province	Oil	0	0	0	2,258	2,258	2,258	0
83	5302	Veracruz Basin	Oil	107	125	232	2,214	2,339	2,446	9
84	3142	Sichuan Basin	Gas	1,086	1,112	2,198	2,202	3,313	4,400	50
85	3144	Songliao Basin	Oil	12,399	3,466	15,865	2,189	5,655	18,054	88
86	2016	Fahud Salt Basin	Oil	2,754	3,535	6,288	2,008	5,543	8,297	76
87	3824	Northwest Java Basin	Oil	1,771	2,914	4,685	2,007	4,922	6,692	70
88	2029	Wadi-Surhan Basin	Gas	8	30	38	1,942	1,972	1,979	2
89	4035	Northwest German Basin	Gas	14,589	11,340	25,929	1,881	13,221	27,810	93
90	3808	Central Sumatra Basin	Oil	8,500	5,372	13,872	1,663	7,034	15,535	89
91	4061	Carpathian-Balkanian Basin	Oil	4,624	2,571	7,195	1,659	4,230	8,854	81
92	2006	Shabwah Basin	Oil	0	210	210	1,624	1,833	1,833	11
93	3930	Gippsland Basin	Oil	3,815	2,375	6,190	1,592	3,967	7,782	80
94	2014	Ghaba Salt Basin	Oil	489	4,492	4,981	1,436	5,928	6,416	78
95	6090	Middle Magdalena	Oil	2,300	1,028	3,328	1,388	2,416	4,715	71
96	5301	Tampico-Misantla Basin	Oil	6,165	1,840	8,005	1,354	3,194	9,359	86
97	4047	North Carpathian Basin	Oil	2,104	1,559	3,663	1,344	2,903	5,007	73
98	1211	Cis-Patom Foredeep	Gas	0	17	17	1,309	1,325	1,325	1
99	5310	Sierra Madre de Chiapas-Peten Foldbelt	NA	NA	NA	NA	1,307	NA	NA	NA
100	6058	San Jorge Basin	Oil	2,723	1,218	3,942	1,203	2,421	5,144	77
101	4048	Pannonian Basin	Oil	2,691	1,892	4,583	1,178	3,070	5,761	80
102	5308	Yucatan Platform	Oil	0	0	0	1,092	1,092	1,092	0
103	2015	Central Oman Platform	Oil	3	198	200	1,090	1,287	1,290	16
104	2075	Euphrates/Mardin	Oil	293	607	900	893	1,500	1,793	50
105	7303	Orange River Coastal	Gas	0	1,003	1,003	879	1,882	1,882	53
106	3115	Junggar Basin	Oil	1,035	6,206	7,241	843	7,049	8,084	90

Rank	Province Code	Province Name	Major Commodity	Total Cumulative Petroleum (MMBOE)	Total Remaining Petroleum (MMBOE)	Total Known Petroleum (MMBOE)	Total Mean Undiscovered Petroleum (MMBOE)	Total Future Petroleum (MMBOE)	Total Petroleum Endowment (MMBOE)	Discovery Maturity, Total Petroleum (%)
107	2074	Khleisha Uplift	Oil	250	442	692	739	1,180	1,430	48
108	8034	Assam	Oil	1,251	2,379	3,630	663	3,042	4,292	85
109	6117	Greater Antilles Deformed Belt	Oil	68	245	313	628	873	940	33
110	5245	Rocky Mountain Deformed Belt	Gas	1,916	1,199	3,115	613	1,812	3,728	84
111	8026	Kohat-Potwar	Oil	341	343	684	422	765	1,106	62
112	6083	Progreso Basin	Oil	147	111	258	385	497	644	40
113	2025	Hail-Ga'Ara Arch	Gas	0	0	0	369	369	369	0
114	2028	Rutbah Uplift	Gas	0	0	0	369	369	369	0
115	2011	South Oman Salt Basin	Oil	203	343	546	357	701	903	60
116	4057	Transylvanian Basin	Gas	3,532	1,589	5,122	354	1,943	5,475	94
117	7013	Senegal	Oil	1	18	19	343	361	362	5
118	5244	Williston Basin, Canada	Oil	4,468	1,963	6,431	252	2,215	6,683	96
119	2031	Zagros Thrust Zone	Gas	0	0	0	242	242	242	0
120	5306	Macuspana Basin	Oil	4	5	9	149	154	158	6
121	2047	Hamra Basin	Oil	0	0	0	148	148	148	0
122	3128	Ordos Basin	Oil	83	1,535	1,618	143	1,678	1,761	92
123	2013	Huqf-Haushi Uplift	Oil	0	0	0	115	115	115	0
124	5316	Trans-Mexican Neovolcanic Axis	NA	NA	NA	NA	72	NA	NA	NA
125	2089	Anah Graben	Oil	75	80	155	35	115	190	81
126	2017	Oman Mountains	Oil	0	0	0	27	27	27	0
127	5317	Chicontepepec Basin	Oil	0	0	0	22	22	22	2
128	5246	Mackenzie Foldbelt	Gas	63	42	105	8	50	113	93
129	1158	Tian Shan Foldbelt	NA	NA	NA	NA	0	NA	NA	NA
130	2033	Sinai Basin	Oil	94	12	106	0	12	106	100
131	2061	Ougarta Uplift	Oil	0	42	42	0	42	42	100
132	3161	Yunnan Guizhou Hubei Fold Belt	NA	NA	NA	NA	0	NA	NA	NA
133	3916	Carnarvon Basin	Oil	21	31	52	0	31	52	100
134	4028	Mid-North Sea High	NA	NA	NA	NA	0	NA	NA	NA
135	4033	German-Polish Basin	Gas	1,151	157	1,308	0	157	1,308	100
136	4038	Munsterland Basin	Gas	20	5	25	0	5	25	100
137	4039	Southwest German Basin	NA	NA	NA	NA	0	NA	NA	NA
138	4046	Bohemia	Gas	21	22	43	0	22	43	100
139	8002	Himalayan	NA	NA	NA	NA	0	NA	NA	NA
140	8023	Central Afghanistan	Gas	5	41	45	0	41	45	100
141	8035	North Burma	Oil	2	2	3	0	2	3	100

**Table AR-4d. Provinces ranked by conventional oil endowment.**

[MMBO, million barrels of oil. Values given are not necessarily those for the entire province, but only for that part assessed in World Petroleum Assessment 2000. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative oil is the reported volume of oil that has been produced. Remaining oil is the calculated remaining reserves; the difference between known and cumulative oil. Known oil is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered oil is the mean volume estimated in World Petroleum Assessment 2000. Future oil is the remaining oil plus estimated mean undiscovered oil. Oil endowment is the known oil plus estimated mean undiscovered oil volumes. Discovery maturity is the percentage of oil discovered (known oil) with respect to oil endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. Negative values result from inconsistent reporting of cumulative and known volumes. Values in parentheses () are questionable data. NA means not applicable; it is shown for all values except mean undiscovered oil if only one field is present in the province.]

Rank	Province Code	Province Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
1	2024	Mesopotamian Foredeep Basin	Oil	56,746	235,696	292,442	61,134	296,830	353,576	83
2	1174	West Siberian Basin	Oil	46,530	93,383	139,913	55,235	148,618	195,148	72
3	2030	Zagros Fold Belt	Oil	49,367	72,234	121,601	45,459	117,693	167,060	73
4	2021	Greater Ghawar Uplift	Oil	57,744	83,956	141,700	13,830	97,786	155,530	91
5	2019	Rub Al Khali Basin	Oil	19,320	70,507	89,827	36,647	107,154	126,474	71
6	7192	Niger Delta	Oil	16,598	17,925	34,522	40,487	58,412	75,010	46
7	1015	Volga-Ural Region	Oil	42,690	21,247	63,937	2,549	23,796	66,485	96
8	6099	Maracaibo Basin	Oil	35,581	13,491	49,072	8,183	21,675	57,256	86
9	4025	North Sea Graben	Oil	22,467	21,427	43,895	13,098	34,526	56,993	77
10	5200	East Greenland Rift Basins	Oil	0	0	0	47,148	47,148	47,148	0
11	2043	Sirte Basin	Oil	13,986	23,087	37,072	6,854	29,941	43,927	84
12	7203	West-Central Coastal	Oil	5,765	7,952	13,717	29,747	37,699	43,464	32
13	5305	Villahermosa Uplift	Oil	14,640	20,382	35,022	7,436	27,818	42,457	82
14	6098	East Venezuela Basin	Oil	13,808	16,395	30,203	11,875	28,271	42,078	72
15	2023	Widyan Basin-Interior Platform	Oil	219	17,216	17,435	21,215	38,431	38,650	45
16	1016	North Caspian Basin	Oil	822	9,987	10,808	23,320	33,307	34,128	32
17	1112	South Caspian Basin	Oil	11,681	5,758	17,438	15,725	21,483	33,163	53
18	3127	Bohaiwan Basin	Oil	10,415	14,139	24,553	4,412	18,550	28,965	85
19	6035	Campos Basin	Oil	1,769	8,287	10,056	16,293	24,580	26,349	38
20	6036	Santos Basin	Oil	6	279	285	23,209	23,488	23,494	1
21	2054	Trias/Ghadames Basin	Oil	7,410	7,793	15,203	6,477	14,270	21,680	70
22	2020	Interior Homocline-Central Arch	Oil	84	4,616	4,700	16,495	21,111	21,195	22
23	1008	Timan-Pechora Basin	Oil	3,346	9,774	13,120	5,732	15,506	18,852	70
24	3144	Songliao Basin	Oil	12,399	3,176	15,575	1,026	4,203	16,601	94
25	5243	Alberta Basin	Oil	12,821	2,458	15,279	818	3,276	16,097	95
26	6021	Guyana-Suriname Basin	Oil	17	46	63	15,247	15,293	15,310	0
27	2071	Red Sea Basin	Oil	6,280	3,580	9,861	5,187	8,767	15,048	66
28	1109	Middle Caspian Basin	Oil	4,359	5,193	9,551	4,887	10,080	14,439	66

Rank	Province Code	Province Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
29	3808	Central Sumatra Basin	Oil	8,349	4,868	13,217	899	5,768	14,117	94
30	8043	Bombay	Oil	3,375	5,065	8,440	2,091	7,156	10,531	80
31	3701	Baram Delta/Brunei-Sabah Basin	Oil	3,953	2,945	6,898	3,390	6,335	10,288	67
32	6041	Putumayo-Oriente-Maranon Basin	Oil	2,889	3,712	6,601	3,098	6,810	9,699	68
33	5304	Saline-Comalcalco Basin	Oil	1,673	686	2,359	7,018	7,703	9,377	25
34	4017	Vestford-Helgeland	Oil	76	2,585	2,660	6,538	9,123	9,199	29
35	6096	Llanos Basin	Oil	1,179	4,224	5,402	3,631	7,855	9,033	60
36	3817	Kutei Basin	Oil	2,195	684	2,879	5,145	5,829	8,024	36
37	5301	Tampico-Misantla Basin	Oil	5,773	1,122	6,895	893	2,015	7,787	89
38	3115	Junggar Basin	Oil	952	5,858	6,810	563	6,422	7,373	92
39	4061	Carpathian-Balkanian Basin	Oil	4,083	1,825	5,908	1,013	2,838	6,921	85
40	3154	Tarim Basin	Oil	45	658	704	5,948	6,606	6,652	11
41	2056	Illizi Basin	Oil	2,286	1,384	3,670	2,947	4,331	6,617	55
42	2022	Qatar Arch	Gas	0	1,150	1,150	5,026	6,176	6,176	19
43	6060	Falklands Plateau	Oil	0	0	0	5,833	5,833	5,833	0
44	2016	Fahud Salt Basin	Oil	2,555	1,918	4,473	1,020	2,938	5,493	81
45	3703	Malay Basin	Oil	1,518	2,090	3,608	1,228	3,318	4,836	75
46	1322	North Sakhalin Basin	Oil	754	1,428	2,182	2,582	4,010	4,764	46
47	3930	Gippsland Basin	Oil	3,077	784	3,860	310	1,093	4,170	93
48	6058	San Jorge Basin	Oil	2,445	900	3,346	498	1,398	3,844	87
49	3824	Northwest Java Basin	Oil	1,555	1,613	3,168	658	2,271	3,825	83
50	5244	Williston Basin, Canada	Oil	2,696	809	3,506	154	963	3,660	96
51	6055	Neuquen Basin	Oil	1,532	838	2,370	1,290	2,128	3,659	65
52	2048	Pelagian Basin	Oil	521	1,719	2,239	1,268	2,986	3,507	64
53	3948	Northwest Shelf	Gas	473	647	1,119	2,381	3,028	3,500	32
54	6081	Talara Basin	Oil	1,346	326	1,672	1,711	2,038	3,383	49
55	5215	Labrador-Newfoundland Shelf	Oil	0	1,582	1,582	1,796	3,378	3,378	47
56	1150	North Ustyurt Basin	Oil	459	1,907	2,366	954	2,861	3,320	71
57	1210	Nepa-Botuoba Arch	Oil	1	2,005	2,006	1,208	3,213	3,214	62
58	6090	Middle Magdalena	Oil	1,915	512	2,426	709	1,220	3,135	77
59	6034	Espirito Santo Basin	Oil	93	37	130	2,959	2,995	3,089	4
60	6037	Pelotas Basin	Oil	0	0	0	2,938	2,938	2,938	0
61	8034	Assam	Oil	911	1,625	2,536	399	2,024	2,935	86
62	3828	South Sumatra Basin	Oil	1,842	587	2,429	469	1,055	2,898	84
63	1009	Dnieper-Donets Basin	Gas	110	1,501	1,611	1,098	2,599	2,709	59
64	4048	Pannonian Basin	Oil	1,567	623	2,190	359	982	2,550	86
65	5307	Campeche-Sigsbe Salt Basin	Oil	0	0	0	2,478	2,478	2,478	0
66	6045	Santa Cruz-Tarija Basin	Oil	257	63	320	2,145	2,209	2,466	13
67	4035	Northwest German Basin	Gas	1,867	413	2,280	56	468	2,336	98
68	6029	Sergipe-Alagoas Basin	Oil	469	223	692	1,487	1,711	2,179	32
69	2004	Ma'rib-Al Jawf/Masila Basin	Oil	504	683	1,188	959	1,643	2,147	55
70	6059	Magallanes Basin	Gas	595	620	1,216	704	1,325	1,920	63
71	3910	Bonaparte Gulf Basin	Gas	123	393	517	1,286	1,679	1,803	29

Rank	Province Code	Province Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
72	2009	Masila-Jeza Basin	Oil	144	488	632	1,096	1,584	1,728	37
73	2014	Ghaba Salt Basin	Oil	466	878	1,344	371	1,250	1,715	78
74	6107	Lesser Antilles Deformed Belt	Oil	8	2	11	1,536	1,538	1,546	1
75	3702	Greater Sarawak Basin	Gas	168	649	817	631	1,281	1,448	56
76	8048	Irrawaddy	Gas	527	188	715	724	912	1,439	50
77	2075	Euphrates/Mardin	Oil	282	312	594	749	1,061	1,343	44
78	4047	North Carpathian Basin	Oil	649	286	935	391	677	1,326	71
79	1207	Baykit Arch	Oil	0	34	34	1,213	1,246	1,246	3
80	7183	Gulf of Guinea	Oil	74	162	236	1,004	1,166	1,240	19
81	3913	Browse Basin	Gas	19	27	46	1,055	1,083	1,101	4
82	2058	Grand Erg/Ahnet Basin	Gas	106	388	494	599	986	1,093	45
83	5302	Veracruz Basin	Oil	51	79	130	955	1,034	1,085	12
84	6063	Malvinas Basin	Oil	0	10	10	1,031	1,041	1,041	1
85	1154	Amu-Darya Basin	Gas	80	686	766	270	957	1,037	74
86	1108	Azov-Kuban Basin	Gas	1,273	(-750)	524	417	(-332)	941	56
87	2010	Ghudun-Khasfeh Flank Province	Oil	0	0	0	926	926	926	0
88	3822	North Sumatra Basin	Gas	496	178	674	213	391	887	76
89	3128	Ordos Basin	Oil	81	602	683	138	740	821	83
90	2006	Shabwah Basin	Oil	0	113	113	685	798	798	14
91	6117	Greater Antilles Deformed Belt	Oil	65	232	297	494	726	790	38
92	2074	Khleisha Uplift	Oil	250	407	657	105	512	762	86
93	5308	Yucatan Platform	Oil	0	0	0	754	754	754	0
94	4060	Po Basin	Gas	91	254	346	360	615	706	49
95	4036	Anglo-Dutch Basin	Gas	432	159	592	88	247	679	87
96	2011	South Oman Salt Basin	Oil	203	297	500	97	394	596	84
97	2015	Central Oman Platform	Oil	3	68	71	424	493	495	14
98	8026	Kohat-Potwar	Oil	201	120	321	149	268	469	68
99	6083	Progreso Basin	Oil	122	53	175	237	290	412	43
100	4068	Provence Basin	Gas	0	0	0	388	388	388	0
101	8042	Indus	Gas	111	70	180	103	173	283	64
102	1209	Angara-Lena Terrace	Gas	0	0	0	242	242	242	0
103	1050	South Barents Basin	Gas	0	0	0	219	219	219	0
104	5245	Rocky Mountain Deformed Belt	Gas	176	22	198	6	28	204	97
105	2089	Anah Graben	Oil	75	80	155	26	106	181	85
106	7013	Senegal	Oil	0	10	10	157	167	168	6
107	1211	Cis-Patom Foredeep	Gas	0	0	0	161	161	161	0
108	3142	Sichuan Basin	Gas	47	63	110	27	91	138	80
109	1060	North Barents Basin	Gas	0	0	0	135	135	135	0
110	7303	Orange River Coastal	Gas	0	0	0	116	116	116	0
111	5306	Macuspana Basin	Oil	2	4	6	101	105	108	6
112	8047	Ganges-Brahmaputra Delta	Gas	3	3	5	103	105	108	5
113	2033	Sinai Basin	Oil	94	11	105	0	11	105	100
114	2047	Hamra Basin	Oil	0	0	0	89	89	89	0

Rank	Province Code	Province Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
115	2025	Hail-Ga'Ara Arch	Gas	0	0	0	53	53	53	0
116	2028	Rutbah Uplift	Gas	0	0	0	53	53	53	0
117	2061	Ougarta Uplift	Oil	0	41	41	0	41	41	100
118	2031	Zagros Thrust Zone	Gas	0	0	0	38	38	38	0
119	3916	Carnarvon Basin	Oil	16	19	35	0	19	35	100
120	2013	Huqf-Haushi Uplift	Oil	0	0	0	30	30	30	0
121	2017	Oman Mountains	Oil	0	0	0	22	22	22	0
122	6103	Tobago Trough	Gas	0	20	20	0	20	20	100
123	5317	Chicontepec Basin	Oil	0	0	0	15	15	15	1
124	8025	Sulaiman-Kirthar	Gas	0	0	0	12	12	12	0
125	4046	Bohemia	Gas	1	0	1	0	0	1	100
126	8035	North Burma	Oil	1	0	1	0	0	1	100
127	2029	Wadi-Surhan Basin	Gas	0	0	0	0	0	0	NA
128	4033	German-Polish Basin	Gas	0	0	0	0	0	0	100
129	4038	Munsterland Basin	Gas	0	0	0	0	0	0	NA
130	4057	Transylvanian Basin	Gas	0	0	0	0	0	0	NA
131	5246	Mackenzie Foldbelt	Gas	0	0	0	0	0	0	NA
132	8023	Central Afghanistan	Gas	0	0	0	0	0	0	NA
NA	1158	Tian Shan Foldbelt	NA	NA	NA	NA	0	NA	NA	NA
NA	1059	Ludlov Saddle	NA	NA	NA	NA	39	NA	NA	NA
NA	3161	Yunnan Guizhou Hubei Fold Belt	NA	NA	NA	NA	0	NA	NA	NA
NA	4028	Mid-North Sea High	NA	NA	NA	NA	0	NA	NA	NA
NA	4039	Southwest German Basin	NA	NA	NA	NA	0	NA	NA	NA
NA	5310	Sierra Madre de Chiapas-Peten Foldbelt	NA	NA	NA	NA	890	NA	NA	NA
NA	5316	Trans-Mexican Neovolcanic Axis	NA	NA	NA	NA	30	NA	NA	NA
NA	6022	Foz do Amazonas Basin	NA	NA	NA	NA	0	NA	NA	NA
NA	8002	Himalayan	NA	NA	NA	NA	0	NA	NA	NA

**Table AR-4e. Provinces ranked by conventional gas endowment.**

[BCFG, billion cubic feet of gas. Values given are not necessarily those for the entire province, but only for that part assessed in World Petroleum Assessment 2000. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative gas is the reported volume of gas that has been produced. Remaining gas is the calculated remaining reserves; the difference between known and cumulative gas. Known gas is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered gas is the mean volume estimated in World Petroleum Assessment 2000. Future gas is the remaining gas plus estimated mean undiscovered gas. Gas endowment is the known gas plus estimated mean undiscovered gas volumes. Discovery maturity is the percentage of gas discovered (known gas) with respect to gas endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. Negative values result from inconsistent reporting of cumulative and known volumes. Values in parentheses ( ) are questionable data. NA means not applicable; it is shown for all values except mean undiscovered gas if only one field is present in the province.]

Rank	Province Code	Province Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
1	1174	West Siberian Basin	Oil	218,465	1,051,584	1,270,049	642,934	1,694,518	1,912,983	66
2	2030	Zagros Fold Belt	Oil	10,333	389,111	399,444	212,008	601,119	611,451	65
3	2019	Rub Al Khali Basin	Oil	8,303	173,934	182,237	425,712	599,646	607,949	30
4	2022	Qatar Arch	Gas	1,018	464,582	465,600	17,385	481,967	482,985	96
5	2021	Greater Ghawar Uplift	Oil	26,493	222,057	248,550	226,969	449,026	475,519	52
6	1154	Amu-Darya Basin	Gas	78,513	151,830	230,343	163,650	315,480	393,993	58
7	2024	Mesopotamian Foredeep Basin	Oil	13,129	285,156	298,285	83,722	368,878	382,007	78
8	1016	North Caspian Basin	Oil	1,745	155,161	156,906	119,051	274,212	275,957	57
9	1050	South Barents Basin	Gas	0	70,020	70,020	160,857	230,877	230,877	30
10	7192	Niger Delta	Oil	6,232	87,579	93,811	132,716	220,295	226,526	41
11	6098	East Venezuela Basin	Oil	22,053	106,066	128,119	93,561	199,627	221,679	58
12	1112	South Caspian Basin	Oil	8,591	27,403	35,994	173,310	200,713	209,304	17
13	4025	North Sea Graben	Oil	31,235	128,603	159,839	37,745	166,348	197,584	81
14	4017	Vestford-Helgeland	Oil	0	15,662	15,662	165,201	180,863	180,863	9
15	4035	Northwest German Basin	Gas	76,285	65,440	141,726	10,814	76,254	152,539	93
16	2020	Interior Homocline-Central Arch	Oil	0	9,825	9,825	122,074	131,899	131,899	7
17	2058	Grand Erg/Ahnet Basin	Gas	4,980	109,053	114,034	8,664	117,717	122,697	93
18	3948	Northwest Shelf	Gas	1,840	54,405	56,245	64,711	119,116	120,956	47
19	3817	Kutei Basin	Oil	8,711	36,762	45,473	64,757	101,519	110,230	41
20	1015	Volga-Ural Region	Oil	16,417	82,750	99,166	3,941	86,691	103,108	96
21	2023	Widyan Basin-Interior Platform	Oil	60	7,295	7,355	94,746	102,041	102,101	7
22	3702	Greater Sarawak Basin	Gas	3,731	78,433	82,164	19,247	97,680	101,411	81
23	7203	West-Central Coastal	Oil	1,150	11,030	12,180	88,044	99,074	100,223	12
24	5243	Alberta Basin	Oil	47,573	31,097	78,670	11,895	42,992	90,565	87
25	1008	Timan-Pechora Basin	Oil	12,374	24,261	36,635	52,079	76,340	88,714	41
26	4036	Anglo-Dutch Basin	Gas	40,547	30,880	71,427	14,976	45,856	86,402	83
27	1009	Dnieper-Donets Basin	Gas	35,453	23,645	59,098	24,051	47,697	83,149	71
28	6036	Santos Basin	Oil	12	1,113	1,125	80,547	81,660	81,672	1



Rank	Province Code	Province Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
29	5200	East Greenland Rift Basins	Oil	0	0	0	80,709	80,709	80,709	0
30	1322	North Sakhalin Basin	Oil	162	22,221	22,383	57,451	79,673	79,835	28
31	3703	Malay Basin	Oil	492	47,657	48,149	27,465	75,122	75,614	64
32	2056	Illizi Basin	Oil	750	44,311	45,061	28,138	72,449	73,199	62
33	2071	Red Sea Basin	Oil	849	8,668	9,517	60,012	68,680	69,529	14
34	8047	Ganges-Brahmaputra Delta	Gas	2,669	9,620	12,289	55,091	64,711	67,380	18
35	1109	Middle Caspian Basin	Oil	9,984	17,156	27,140	39,685	56,841	66,825	41
36	3154	Tarim Basin	Oil	208	5,572	5,780	59,939	65,511	65,719	9
37	1060	North Barents Basin	Gas	0	0	0	59,820	59,820	59,820	0
38	3701	Baram Delta/Brunei-Sabah Basin	Oil	9,188	27,012	36,200	23,226	50,238	59,426	61
39	5305	Villahermosa Uplift	Oil	13,888	27,404	41,292	15,623	43,027	56,915	73
40	2043	Sirte Basin	Oil	5,479	32,288	37,767	14,984	47,272	52,752	72
41	1210	Nepa-Botuoba Arch	Oil	0	22,035	22,035	29,971	52,006	52,006	42
42	4068	Provence Basin	Gas	0	0	0	51,210	51,210	51,210	0
43	6045	Santa Cruz-Tarija Basin	Oil	6,928	10,058	16,985	31,107	41,165	48,092	35
44	6099	Maracaibo Basin	Oil	979	25,722	26,701	17,576	43,298	44,277	60
45	6103	Tobago Trough	Gas	0	22,600	22,600	20,103	42,703	42,703	53
46	2054	Trias/Ghadames Basin	Oil	647	24,352	24,999	17,493	41,845	42,492	59
47	6021	Guyana-Suriname Basin	Oil	0	0	0	42,058	42,058	42,058	0
48	3822	North Sumatra Basin	Gas	13,977	11,582	25,559	15,123	26,705	40,682	63
49	6059	Magallanes Basin	Gas	10,053	14,754	24,807	14,040	28,794	38,848	64
50	3913	Browse Basin	Gas	0	17,960	17,960	20,093	38,053	38,053	47
51	8043	Bombay	Oil	6,228	17,965	24,193	12,944	30,909	37,137	65
52	4060	Po Basin	Gas	9,527	9,360	18,886	17,964	27,324	36,850	51
53	3910	Bonaparte Gulf Basin	Gas	0	13,304	13,304	23,492	36,796	36,796	36
54	8042	Indus	Gas	8,385	11,211	19,596	15,964	27,175	35,560	55
55	6034	Espirito Santo Basin	Oil	42	180	222	34,287	34,467	34,509	1
56	6055	Neuquen Basin	Oil	7,636	13,068	20,704	12,416	25,483	33,119	63
57	4057	Transylvanian Basin	Gas	21,194	9,537	30,731	2,083	11,620	32,814	94
58	1108	Azov-Kuban Basin	Gas	7,492	11,118	18,610	12,252	23,369	30,861	60
59	8048	Irrawaddy	Gas	721	9,288	10,009	20,521	29,809	30,530	33
60	3828	South Sumatra Basin	Oil	3,125	7,080	10,204	18,250	25,330	28,455	36
61	8025	Sulaiman-Kirthar	Gas	6,716	9,061	15,777	12,599	21,659	28,376	56
62	6035	Campos Basin	Oil	303	5,941	6,244	19,691	25,632	25,935	24
63	3127	Bohaiwan Basin	Oil	2,987	12,685	15,672	8,514	21,199	24,186	65
64	2014	Ghaba Salt Basin	Oil	138	18,825	18,964	5,056	23,881	24,019	79
65	3142	Sichuan Basin	Gas	6,236	6,290	12,526	10,311	16,601	22,837	55
66	6037	Pelotas Basin	Oil	0	0	0	22,806	22,806	22,806	0
67	2048	Pelagian Basin	Oil	43	17,167	17,210	5,556	22,724	22,766	76
68	2004	Ma'rib-Al Jawf/Masila Basin	Oil	0	16,507	16,507	5,944	22,451	22,451	74
69	1207	Baykit Arch	Oil	0	5,052	5,052	16,983	22,035	22,035	23
70	4047	North Carpathian Basin	Oil	8,714	7,618	16,332	5,049	12,667	21,381	76
71	1209	Angara-Lena Terrace	Gas	0	8,075	8,075	10,705	18,780	18,780	43

Rank	Province Code	Province Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
72	5304	Saline-Comalcalco Basin	Oil	1,023	1,223	2,246	16,423	17,645	18,669	12
73	5245	Rocky Mountain Deformed Belt	Gas	8,662	6,447	15,109	3,186	9,633	18,295	83
74	4048	Pannonian Basin	Oil	6,534	7,308	13,842	4,143	11,452	17,986	77
75	5244	Williston Basin, Canada	Oil	10,378	6,876	17,254	502	7,379	17,756	97
76	6060	Falklands Plateau	Oil	0	0	0	16,581	16,581	16,581	0
77	6096	Llanos Basin	Oil	139	15,175	15,314	6,217	21,391	15,651	98
78	5215	Labrador-Newfoundland Shelf	Oil	0	6,630	6,630	8,893	15,522	15,522	43
79	3824	Northwest Java Basin	Oil	1,026	7,028	8,055	7,453	14,481	15,508	52
80	3930	Gippsland Basin	Oil	3,501	6,274	9,775	5,658	11,932	15,433	63
81	2016	Fahud Salt Basin	Oil	1,151	8,832	9,983	4,878	13,710	14,861	67
82	1150	North Ustyurt Basin	Oil	0	2,413	2,413	10,770	13,183	13,183	18
83	7183	Gulf of Guinea	Oil	46	1,903	1,949	10,071	11,974	12,020	16
84	6107	Lesser Antilles Deformed Belt	Oil	16	7	22	11,957	11,963	11,979	0
85	6063	Malvinas Basin	Oil	0	75	75	11,327	11,402	11,402	1
86	4061	Carpathian-Balkanian Basin	Oil	3,126	4,139	7,265	3,179	7,319	10,445	70
87	6029	Sergipe-Alagoas Basin	Oil	348	1,059	1,407	8,334	9,393	9,741	14
88	7303	Orange River Coastal	Gas	0	6,015	6,015	3,603	9,618	9,618	63
89	5301	Tampico-Misantla Basin	Oil	2,354	4,306	6,661	2,051	6,358	8,712	76
90	6090	Middle Magdalena	Oil	2,310	2,692	5,002	3,292	5,985	8,294	60
91	2029	Wadi-Surhan Basin	Gas	47	179	226	7,873	8,052	8,099	3
92	3808	Central Sumatra Basin	Oil	910	2,956	3,866	4,078	7,034	7,944	49
93	4033	German-Polish Basin	Gas	6,905	940	7,846	0	940	7,846	100
94	8034	Assam	Oil	2,039	4,495	6,534	1,178	5,673	7,712	85
95	6081	Talara Basin	Oil	1,951	941	2,892	4,795	5,736	7,687	38
96	3144	Songliao Basin	Oil	3	1,739	1,743	5,706	7,446	7,449	23
97	6058	San Jorge Basin	Oil	1,667	1,898	3,565	3,774	5,672	7,339	49
98	2009	Masila-Jeza Basin	Oil	0	40	40	6,793	6,833	6,833	1
99	5302	Veracruz Basin	Oil	335	270	605	5,832	6,102	6,437	9
100	3128	Ordos Basin	Oil	13	5,597	5,610	20	5,617	5,630	100
101	2010	Ghudun-Khasfeh Flank Province	Oil	0	0	0	5,623	5,623	5,623	0
102	5307	Campeche-Sigsbe Salt Basin	Oil	0	0	0	5,565	5,565	5,565	0
103	1211	Cis-Patom Foredeep	Gas	0	100	100	5,364	5,464	5,464	2
104	2006	Shabwah Basin	Oil	0	573	573	4,246	4,819	4,819	12
105	2015	Central Oman Platform	Oil	0	742	742	3,239	3,980	3,981	19
106	3115	Junggar Basin	Oil	501	2,082	2,583	1,296	3,379	3,879	67
107	8026	Kohat-Potwar	Oil	784	1,147	1,931	1,314	2,460	3,245	60
108	6041	Putumayo-Oriente-Maranon Basin	Oil	661	955	1,616	1,596	2,552	3,212	50
109	2074	Khleisha Uplift	Oil	0	210	210	2,580	2,790	2,790	8
110	2075	Euphrates/Mardin	Oil	66	1,668	1,734	749	2,418	2,483	70
111	5308	Yucatan Platform	Oil	0	0	0	1,496	1,496	1,496	0
112	2011	South Oman Salt Basin	Oil	0	188	188	1,236	1,424	1,424	13
113	2025	Hail-Ga'Ara Arch	Gas	0	0	0	1,290	1,290	1,290	0
114	2028	Rutbah Uplift	Gas	0	0	0	1,290	1,290	1,290	0

Rank	Province Code	Province Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
115	6083	Progreso Basin	Oil	148	350	498	695	1,044	1,193	42
116	2031	Zagros Thrust Zone	Gas	0	0	0	966	966	966	0
117	7013	Senegal	Oil	4	45	49	856	901	905	5
118	6117	Greater Antilles Deformed Belt	Oil	20	77	96	592	668	688	14
119	5246	Mackenzie Foldbelt	Gas	379	252	631	43	295	674	94
120	2013	Huqf-Haushi Uplift	Oil	0	0	0	404	404	404	0
121	8023	Central Afghanistan	Gas	27	244	271	0	244	271	100
122	2047	Hamra Basin	Oil	0	0	0	241	241	241	0
123	4046	Bohemia	Gas	114	117	231	0	117	231	100
124	5306	Macuspana Basin	Oil	8	8	16	210	217	225	7
125	4038	Munsterland Basin	Gas	121	31	152	0	31	152	100
126	3916	Carnarvon Basin	Oil	32	70	102	0	70	102	100
127	2089	Anah Graben	Oil	0	0	0	39	39	39	0
128	5317	Chicontepepec Basin	Oil	0	2	2	32	34	34	6
129	2017	Oman Mountains	Oil	0	0	0	22	22	22	0
130	8035	North Burma	Oil	1	10	11	0	10	11	100
131	2061	Ougarta Uplift	Oil	0	6	6	0	6	6	100
132	2033	Sinai Basin	Oil	0	5	5	0	5	5	100
NA	1158	Tian Shan Foldbelt	NA	NA	NA	NA	0	NA	NA	NA
NA	1059	Ludlov Saddle	NA	NA	NA	NA	28,387	NA	NA	NA
NA	3161	Yunnan Guizhou Hubei Fold Belt	NA	NA	NA	NA	0	NA	NA	NA
NA	4028	Mid-North Sea High	NA	NA	NA	NA	0	NA	NA	NA
NA	4039	Southwest German Basin	NA	NA	NA	NA	0	NA	NA	NA
NA	5310	Sierra Madre de Chiapas-Peten Foldbelt	NA	NA	NA	NA	1,846	NA	NA	NA
NA	5316	Trans-Mexican Neovolcanic Axis	NA	NA	NA	NA	195	NA	NA	NA
NA	6022	Foz do Amazonas Basin	NA	NA	NA	NA	29,840	NA	NA	NA
NA	8002	Himalayan	NA	NA	NA	NA	0	NA	NA	NA

**Table AR-4f. Provinces ranked by total conventional petroleum endowment.**

[MMBOE, million barrels of oil equivalent. Values given are not necessarily those for the entire province, but only for that part assessed in World Petroleum Assessment 2000. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Total cumulative petroleum is the reported volume of total petroleum that has been produced. Total remaining petroleum is the calculated remaining reserves; the difference between total known and total cumulative petroleum. Total known petroleum is the reported discovered volume (cumulative production plus remaining reserves). Total mean undiscovered petroleum is derived from the mean volumes of oil, gas, and NGL estimated in World Petroleum Assessment 2000. Total future petroleum is the total remaining petroleum plus estimated total mean undiscovered petroleum. Total petroleum endowment is the total known petroleum plus estimated total mean undiscovered petroleum volumes. Discovery maturity is the percentage of total petroleum discovered (total known petroleum) with respect to total petroleum endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. NA means not applicable; it is shown for all values except total mean undiscovered petroleum if only one field is present in the province.]

Rank	Province Code	Province Name	Major Commodity	Total Cumulative Petroleum (MMBOE)	Total Remaining Petroleum (MMBOE)	Total Known Petroleum (MMBOE)	Total Mean Undiscovered Petroleum (MMBOE)	Total Future Petroleum (MMBOE)	Total Petroleum Endowment (MMBOE)	Discovery Maturity, Total Petroleum (%)
1	1174	West Siberian Basin	Oil	83,213	271,517	354,730	182,864	454,380	537,593	66
2	2024	Mesopotamian Foredeep Basin	Oil	58,934	285,059	343,993	78,159	363,217	422,151	81
3	2030	Zagros Fold Belt	Oil	51,102	138,437	189,539	90,292	228,729	279,831	68
4	2019	Rub Al Khali Basin	Oil	20,998	101,760	122,757	137,868	239,627	260,625	47
5	2021	Greater Ghawar Uplift	Oil	62,169	129,511	191,680	63,808	193,319	255,488	75
6	7192	Niger Delta	Oil	17,646	35,353	53,000	68,640	103,994	121,640	44
7	2022	Qatar Arch	Gas	183	92,332	92,515	8,908	101,239	101,423	91
8	4025	North Sea Graben	Oil	28,183	48,322	76,505	21,248	69,570	97,753	78
9	1016	North Caspian Basin	Oil	1,322	44,528	45,850	48,573	93,101	94,423	49
10	1015	Volga-Ural Region	Oil	45,732	35,832	81,564	3,403	39,235	84,968	96
11	6098	East Venezuela Basin	Oil	17,509	34,747	52,257	31,934	66,682	84,191	62
12	1112	South Caspian Basin	Oil	13,334	10,607	23,941	52,725	63,332	76,665	31
13	1154	Amu-Darya Basin	Gas	13,357	26,975	40,332	31,541	58,516	71,873	56
14	6099	Maracaibo Basin	Oil	35,745	17,820	53,565	12,086	29,906	65,651	82
15	5200	East Greenland Rift Basins	Oil	0	0	0	64,769	64,769	64,769	0
16	7203	West-Central Coastal	Oil	5,957	9,854	15,811	48,665	58,519	64,476	25
17	2023	Widyan Basin-Interior Platform	Oil	229	18,457	18,686	43,855	62,312	62,541	30
18	2043	Sirte Basin	Oil	14,929	28,566	43,496	10,000	38,566	53,496	81
19	5305	Villahermosa Uplift	Oil	17,004	24,993	41,997	10,957	35,950	52,955	79
20	2020	Interior Homocline-Central Arch	Oil	84	6,516	6,601	46,132	52,648	52,733	13
21	4017	Vestford-Helgeland	Oil	76	5,897	5,973	43,062	48,959	49,035	12
22	1050	South Barents Basin	Gas	0	11,770	11,770	30,377	42,147	42,147	28
23	6036	Santos Basin	Oil	12	505	517	40,828	41,332	41,344	1
24	1008	Timan-Pechora Basin	Oil	5,771	14,171	19,942	16,598	30,769	36,539	55

Rank	Province Code	Province Name	Major Commodity	Total Cumulative Petroleum (MMBOE)	Total Remaining Petroleum (MMBOE)	Total Known Petroleum (MMBOE)	Total Mean Undiscovered Petroleum (MMBOE)	Total Future Petroleum (MMBOE)	Total Petroleum Endowment (MMBOE)	Discovery Maturity, Total Petroleum (%)
25	5243	Alberta Basin	Oil	22,342	8,760	31,101	3,128	11,888	34,229	91
26	3127	Bohaiwan Basin	Oil	10,914	16,339	27,253	6,248	22,587	33,501	81
27	6035	Campos Basin	Oil	1,819	9,287	11,107	20,128	29,415	31,235	36
28	2054	Trias/Ghadames Basin	Oil	7,589	12,800	20,389	10,566	23,366	30,955	66
29	2071	Red Sea Basin	Oil	6,445	5,298	11,744	18,533	23,832	30,277	39
30	3817	Kutei Basin	Oil	3,691	8,040	11,731	18,060	26,100	29,791	39
31	3948	Northwest Shelf	Gas	896	10,589	11,485	16,848	27,437	28,333	41
32	4035	Northwest German Basin	Gas	14,589	11,340	25,929	1,881	13,221	27,810	93
33	1109	Middle Caspian Basin	Oil	6,071	8,083	14,153	13,171	21,254	27,324	52
34	2058	Grand Erg/Ahnet Basin	Gas	1,783	22,752	24,534	2,449	25,201	26,984	91
35	6021	Guyana-Suriname Basin	Oil	17	46	63	24,586	24,632	24,649	0
36	3701	Baram Delta/Brunei-Sabah Basin	Oil	5,492	7,619	13,111	8,434	16,054	21,545	61
37	1322	North Sakhalin Basin	Oil	785	5,292	6,077	15,156	20,449	21,234	29
38	3154	Tarim Basin	Oil	80	1,776	1,856	19,250	21,026	21,106	9
39	2056	Illizi Basin	Oil	2,485	9,593	12,078	8,536	18,129	20,614	59
40	3702	Greater Sarawak Basin	Gas	846	14,044	14,890	4,301	18,345	19,191	78
41	3703	Malay Basin	Oil	1,609	10,346	11,955	6,319	16,665	18,274	65
42	3144	Songliao Basin	Oil	12,399	3,466	15,865	2,189	5,655	18,054	88
43	1009	Dnieper-Donets Basin	Gas	6,137	5,523	11,660	5,969	11,492	17,629	66
44	8043	Bombay	Oil	4,417	8,323	12,740	4,666	12,989	17,406	73
45	3808	Central Sumatra Basin	Oil	8,500	5,372	13,872	1,663	7,034	15,535	89
46	4036	Anglo-Dutch Basin	Gas	7,237	5,403	12,640	2,630	8,033	15,270	83
47	1210	Nepa-Botuoba Arch	Oil	1	5,974	5,976	7,643	13,618	13,619	44
48	6096	Llanos Basin	Oil	1,202	7,203	8,405	5,004	12,207	13,409	63
49	5304	Saline-Comalcalco Basin	Oil	1,844	889	2,733	10,650	11,539	13,383	20
50	6045	Santa Cruz-Tarija Basin	Oil	1,655	2,045	3,699	8,629	10,674	12,328	30
51	8047	Ganges-Brahmaputra Delta	Gas	451	1,654	2,105	9,558	11,212	11,663	18
52	1060	North Barents Basin	Gas	0	0	0	11,355	11,355	11,355	0
53	4068	Provence Basin	Gas	0	0	0	11,188	11,188	11,188	0
54	6034	Espirito Santo Basin	Oil	100	68	169	10,285	10,354	10,454	2
55	6041	Putumayo-Oriente-Maranon Basin	Oil	2,999	3,871	6,871	3,418	7,290	10,289	67
56	6055	Neuquen Basin	Oil	2,883	3,276	6,159	3,562	6,838	9,721	63
57	3910	Bonaparte Gulf Basin	Gas	123	3,046	3,169	6,281	9,327	9,450	34
58	5301	Tampico-Misantla Basin	Oil	6,165	1,840	8,005	1,354	3,194	9,359	86
59	6060	Falklands Plateau	Oil	0	0	0	8,967	8,967	8,967	0
60	6059	Magallanes Basin	Gas	2,359	3,202	5,562	3,354	6,556	8,915	62
61	4061	Carpathian-Balkanian Basin	Oil	4,624	2,571	7,195	1,659	4,230	8,854	81
62	3822	North Sumatra Basin	Gas	3,409	2,451	5,860	2,914	5,365	8,774	67
63	3913	Browse Basin	Gas	19	3,221	3,239	5,339	8,559	8,578	38
64	2016	Fahud Salt Basin	Oil	2,754	3,535	6,288	2,008	5,543	8,297	76
65	3115	Junggar Basin	Oil	1,035	6,206	7,241	843	7,049	8,084	90

Rank	Province Code	Province Name	Major Commodity	Total Cumulative Petroleum (MMBOE)	Total Remaining Petroleum (MMBOE)	Total Known Petroleum (MMBOE)	Total Mean Undiscovered Petroleum (MMBOE)	Total Future Petroleum (MMBOE)	Total Petroleum Endowment (MMBOE)	Discovery Maturity, Total Petroleum (%)
66	3828	South Sumatra Basin	Oil	2,367	1,819	4,186	3,750	5,569	7,936	53
67	6037	Pelotas Basin	Oil	0	0	0	7,846	7,846	7,846	0
68	3930	Gippsland Basin	Oil	3,815	2,375	6,190	1,592	3,967	7,782	80
69	2048	Pelagian Basin	Oil	528	4,646	5,174	2,323	6,970	7,497	69
70	6103	Tobago Trough	Gas	0	3,867	3,867	3,551	7,418	7,418	52
71	8048	Irrawaddy	Gas	649	1,797	2,446	4,930	6,726	7,376	33
72	4060	Po Basin	Gas	1,706	1,820	3,526	3,476	5,296	7,002	50
73	8042	Indus	Gas	1,512	1,970	3,482	3,328	5,299	6,811	51
74	3824	Northwest Java Basin	Oil	1,771	2,914	4,685	2,007	4,922	6,692	70
75	5244	Williston Basin, Canada	Oil	4,468	1,963	6,431	252	2,215	6,683	96
76	5215	Labrador-Newfoundland Shelf	Oil	0	2,875	2,875	3,792	6,667	6,667	48
77	2004	Ma'rib-Al Jawf/Masila Basin	Oil	536	3,712	4,248	2,273	5,985	6,521	65
78	2014	Ghaba Salt Basin	Oil	489	4,492	4,981	1,436	5,928	6,416	78
79	1108	Azov-Kuban Basin	Gas	2,589	1,091	3,681	2,675	3,766	6,355	58
80	1150	North Ustyurt Basin	Oil	459	2,318	2,777	3,193	5,511	5,970	47
81	1207	Baykit Arch	Oil	0	936	936	4,897	5,833	5,833	16
82	4048	Pannonian Basin	Oil	2,691	1,892	4,583	1,178	3,070	5,761	80
83	4057	Transylvanian Basin	Gas	3,532	1,589	5,122	354	1,943	5,475	94
84	8025	Sulaiman-Kirthar	Gas	1,121	1,535	2,657	2,553	4,089	5,210	51
85	6058	San Jorge Basin	Oil	2,723	1,218	3,942	1,203	2,421	5,144	77
86	4047	North Carpathian Basin	Oil	2,104	1,559	3,663	1,344	2,903	5,007	73
87	6081	Talara Basin	Oil	1,715	439	2,154	2,765	3,204	4,919	44
88	6090	Middle Magdalena	Oil	2,300	1,028	3,328	1,388	2,416	4,715	71
89	3142	Sichuan Basin	Gas	1,086	1,112	2,198	2,202	3,313	4,400	50
90	8034	Assam	Oil	1,251	2,379	3,630	663	3,042	4,292	85
91	6029	Sergipe-Alagoas Basin	Oil	528	402	929	3,292	3,693	4,221	22
92	6107	Lesser Antilles Deformed Belt	Oil	11	3	14	4,110	4,113	4,124	0
93	1209	Angara-Lena Terrace	Gas	0	1,409	1,409	2,526	3,935	3,935	36
94	5245	Rocky Mountain Deformed Belt	Gas	1,916	1,199	3,115	613	1,812	3,728	84
95	5307	Campeche-Sigsbe Salt Basin	Oil	0	0	0	3,714	3,714	3,714	0
96	7183	Gulf of Guinea	Oil	81	515	596	2,965	3,480	3,561	17
97	6063	Malvinas Basin	Oil	0	25	25	3,280	3,305	3,305	1
98	2009	Masila-Jeza Basin	Oil	144	496	641	2,598	3,094	3,238	20
99	5302	Veracruz Basin	Oil	107	125	232	2,214	2,339	2,446	9
100	2010	Ghudun-Khasfeh Flank Province	Oil	0	0	0	2,258	2,258	2,258	0
101	2029	Wadi-Surhan Basin	Gas	8	30	38	1,942	1,972	1,979	2
102	7303	Orange River Coastal	Gas	0	1,003	1,003	879	1,882	1,882	53
103	2006	Shabwah Basin	Oil	0	210	210	1,624	1,833	1,833	11
104	2075	Euphrates/Mardin	Oil	293	607	900	893	1,500	1,793	50
105	3128	Ordos Basin	Oil	83	1,535	1,618	143	1,678	1,761	92
106	2074	Khleisha Uplift	Oil	250	442	692	739	1,180	1,430	48

Rank	Province Code	Province Name	Major Commodity	Total Cumulative Petroleum (MMBOE)	Total Remaining Petroleum (MMBOE)	Total Known Petroleum (MMBOE)	Total Mean Undiscovered Petroleum (MMBOE)	Total Future Petroleum (MMBOE)	Total Petroleum Endowment (MMBOE)	Discovery Maturity, Total Petroleum (%)
107	1211	Cis-Patom Foredeep	Gas	0	17	17	1,309	1,325	1,325	1
108	4033	German-Polish Basin	Gas	1,151	157	1,308	0	157	1,308	100
109	2015	Central Oman Platform	Oil	3	198	200	1,090	1,287	1,290	16
110	8026	Kohat-Potwar	Oil	341	343	684	422	765	1,106	62
111	5308	Yucatan Platform	Oil	0	0	0	1,092	1,092	1,092	0
112	6117	Greater Antilles Deformed Belt	Oil	68	245	313	628	873	940	33
113	2011	South Oman Salt Basin	Oil	203	343	546	357	701	903	60
114	6083	Progreso Basin	Oil	147	111	258	385	497	644	40
115	2025	Hail-Ga'Ara Arch	Gas	0	0	0	369	369	369	0
116	2028	Rutbah Uplift	Gas	0	0	0	369	369	369	0
117	7013	Senegal	Oil	1	18	19	343	361	362	5
118	2031	Zagros Thrust Zone	Gas	0	0	0	242	242	242	0
119	2089	Anah Graben	Oil	75	80	155	35	115	190	81
120	5306	Macuspana Basin	Oil	4	5	9	149	154	158	6
121	2047	Hamra Basin	Oil	0	0	0	148	148	148	0
122	2013	Huqf-Haushi Uplift	Oil	0	0	0	115	115	115	0
123	5246	Mackenzie Foldbelt	Gas	63	42	105	8	50	113	93
124	2033	Sinai Basin	Oil	94	12	106	0	12	106	100
125	3916	Carnarvon Basin	Oil	21	31	52	0	31	52	100
126	8023	Central Afghanistan	Gas	5	41	45	0	41	45	100
127	4046	Bohemia	Gas	21	22	43	0	22	43	100
128	2061	Ougarta Uplift	Oil	0	42	42	0	42	42	100
129	2017	Oman Mountains	Oil	0	0	0	27	27	27	0
130	4038	Munsterland Basin	Gas	20	5	25	0	5	25	100
131	5317	Chicontepepec Basin	Oil	0	0	0	22	22	22	2
132	8035	North Burma	Oil	2	2	3	0	2	3	100
NA	1158	Tian Shan Foldbelt	NA	NA	NA	NA	0	NA	NA	NA
NA	1059	Ludlov Saddle	NA	NA	NA	NA	5,361	NA	NA	NA
NA	3161	Yunnan Guizhou Hubei Fold Belt	NA	NA	NA	NA	0	NA	NA	NA
NA	4028	Mid-North Sea High	NA	NA	NA	NA	0	NA	NA	NA
NA	4039	Southwest German Basin	NA	NA	NA	NA	0	NA	NA	NA
NA	5310	Sierra Madre de Chiapas-Peten Foldbelt	NA	NA	NA	NA	1,307	NA	NA	NA
NA	5316	Trans-Mexican Neovolcanic Axis	NA	NA	NA	NA	72	NA	NA	NA
NA	6022	Foz do Amazonas Basin	NA	NA	NA	NA	5,272	NA	NA	NA
NA	8002	Himalayan	NA	NA	NA	NA	0	NA	NA	NA

**Table AR- 4g. Provinces ranked by future oil volume.**

[MMBO, million barrels of oil. Values given are not necessarily those for the entire province, but only for that part assessed in World Petroleum Assessment 2000. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative oil is the reported volume of oil that has been produced. Remaining oil is the calculated remaining reserves; the difference between known and cumulative oil. Known oil is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered oil is the mean volume estimated in World Petroleum Assessment 2000. Future oil is the remaining oil plus estimated mean undiscovered oil. Oil endowment is the known oil plus estimated mean undiscovered oil volumes. Discovery maturity is the percentage of oil discovered (known oil) with respect to oil endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. Negative values result from inconsistent reporting of cumulative and known volumes. Values in parentheses ( ) are questionable data. NA means not applicable; it is shown for all values except mean undiscovered oil if only one field is present in the province.]

Rank	Province Code	Province Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
1	2024	Mesopotamian Foredeep Basin	Oil	56,746	235,696	292,442	61,134	296,830	353,576	83
2	1174	West Siberian Basin	Oil	46,530	93,383	139,913	55,235	148,618	195,148	72
3	2030	Zagros Fold Belt	Oil	49,367	72,234	121,601	45,459	117,693	167,060	73
4	2019	Rub Al Khali Basin	Oil	19,320	70,507	89,827	36,647	107,154	126,474	71
5	2021	Greater Ghawar Uplift	Oil	57,744	83,956	141,700	13,830	97,786	155,530	91
6	7192	Niger Delta	Oil	16,598	17,925	34,522	40,487	58,412	75,010	46
7	5200	East Greenland Rift Basins	Oil	0	0	0	47,148	47,148	47,148	0
8	2023	Widyan Basin-Interior Platform	Oil	219	17,216	17,435	21,215	38,431	38,650	45
9	7203	West-Central Coastal	Oil	5,765	7,952	13,717	29,747	37,699	43,464	32
10	4025	North Sea Graben	Oil	22,467	21,427	43,895	13,098	34,526	56,993	77
11	1016	North Caspian Basin	Oil	822	9,987	10,808	23,320	33,307	34,128	32
12	2043	Sirte Basin	Oil	13,986	23,087	37,072	6,854	29,941	43,927	84
13	6098	East Venezuela Basin	Oil	13,808	16,395	30,203	11,875	28,271	42,078	72
14	5305	Villahermosa Uplift	Oil	14,640	20,382	35,022	7,436	27,818	42,457	82
15	6035	Campos Basin	Oil	1,769	8,287	10,056	16,293	24,580	26,349	38
16	1015	Volga-Ural Region	Oil	42,690	21,247	63,937	2,549	23,796	66,485	96
17	6036	Santos Basin	Oil	6	279	285	23,209	23,488	23,494	1
18	6099	Maracaibo Basin	Oil	35,581	13,491	49,072	8,183	21,675	57,256	86
19	1112	South Caspian Basin	Oil	11,681	5,758	17,438	15,725	21,483	33,163	53
20	2020	Interior Homocline-Central Arch	Oil	84	4,616	4,700	16,495	21,111	21,195	22
21	3127	Bohaiwan Basin	Oil	10,415	14,139	24,553	4,412	18,550	28,965	85
22	1008	Timan-Pechora Basin	Oil	3,346	9,774	13,120	5,732	15,506	18,852	70
23	6021	Guyana-Suriname Basin	Oil	17	46	63	15,247	15,293	15,310	0
24	2054	Trias/Ghadames Basin	Oil	7,410	7,793	15,203	6,477	14,270	21,680	70
25	1109	Middle Caspian Basin	Oil	4,359	5,193	9,551	4,887	10,080	14,439	66
26	4017	Vestford-Helgeland	Oil	76	2,585	2,660	6,538	9,123	9,199	29
27	2071	Red Sea Basin	Oil	6,280	3,580	9,861	5,187	8,767	15,048	66
28	6096	Llanos Basin	Oil	1,179	4,224	5,402	3,631	7,855	9,033	60



Rank	Province Code	Province Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
29	5304	Saline-Comalcalco Basin	Oil	1,673	686	2,359	7,018	7,703	9,377	25
30	8043	Bombay	Oil	3,375	5,065	8,440	2,091	7,156	10,531	80
31	6041	Putumayo-Oriente-Maranon Basin	Oil	2,889	3,712	6,601	3,098	6,810	9,699	68
32	3154	Tarim Basin	Oil	45	658	704	5,948	6,606	6,652	11
33	3115	Junggar Basin	Oil	952	5,858	6,810	563	6,422	7,373	92
34	3701	Baram Delta/Brunei-Sabah Basin	Oil	3,953	2,945	6,898	3,390	6,335	10,288	67
35	2022	Qatar Arch	Gas	0	1,150	1,150	5,026	6,176	6,176	19
36	6060	Falklands Plateau	Oil	0	0	0	5,833	5,833	5,833	0
37	3817	Kutei Basin	Oil	2,195	684	2,879	5,145	5,829	8,024	36
38	3808	Central Sumatra Basin	Oil	8,349	4,868	13,217	899	5,768	14,117	94
39	2056	Illizi Basin	Oil	2,286	1,384	3,670	2,947	4,331	6,617	55
40	3144	Songliao Basin	Oil	12,399	3,176	15,575	1,026	4,203	16,601	94
41	1322	North Sakhalin Basin	Oil	754	1,428	2,182	2,582	4,010	4,764	46
42	5215	Labrador-Newfoundland Shelf	Oil	0	1,582	1,582	1,796	3,378	3,378	47
43	3703	Malay Basin	Oil	1,518	2,090	3,608	1,228	3,318	4,836	75
44	5243	Alberta Basin	Oil	12,821	2,458	15,279	818	3,276	16,097	95
45	1210	Nepa-Botuoba Arch	Oil	1	2,005	2,006	1,208	3,213	3,214	62
46	3948	Northwest Shelf	Gas	473	647	1,119	2,381	3,028	3,500	32
47	6034	Espirito Santo Basin	Oil	93	37	130	2,959	2,995	3,089	4
48	2048	Pelagian Basin	Oil	521	1,719	2,239	1,268	2,986	3,507	64
49	2016	Fahud Salt Basin	Oil	2,555	1,918	4,473	1,020	2,938	5,493	81
50	6037	Pelotas Basin	Oil	0	0	0	2,938	2,938	2,938	0
51	1150	North Ustyurt Basin	Oil	459	1,907	2,366	954	2,861	3,320	71
52	4061	Carpathian-Balkanian Basin	Oil	4,083	1,825	5,908	1,013	2,838	6,921	85
53	1009	Dnieper-Donets Basin	Gas	110	1,501	1,611	1,098	2,599	2,709	59
54	5307	Campeche-Sigsbe Salt Basin	Oil	0	0	0	2,478	2,478	2,478	0
55	3824	Northwest Java Basin	Oil	1,555	1,613	3,168	658	2,271	3,825	83
56	6045	Santa Cruz-Tarija Basin	Oil	257	63	320	2,145	2,209	2,466	13
57	6055	Neuquen Basin	Oil	1,532	838	2,370	1,290	2,128	3,659	65
58	6081	Talara Basin	Oil	1,346	326	1,672	1,711	2,038	3,383	49
59	8034	Assam	Oil	911	1,625	2,536	399	2,024	2,935	86
60	5301	Tampico-Misantla Basin	Oil	5,773	1,122	6,895	893	2,015	7,787	89
61	6029	Sergipe-Alagoas Basin	Oil	469	223	692	1,487	1,711	2,179	32
62	3910	Bonaparte Gulf Basin	Gas	123	393	517	1,286	1,679	1,803	29
63	2004	Ma'rib-Al Jawf/Masila Basin	Oil	504	683	1,188	959	1,643	2,147	55
64	2009	Masila-Jeza Basin	Oil	144	488	632	1,096	1,584	1,728	37
65	6107	Lesser Antilles Deformed Belt	Oil	8	2	11	1,536	1,538	1,546	1
66	6058	San Jorge Basin	Oil	2,445	900	3,346	498	1,398	3,844	87
67	6059	Magallanes Basin	Gas	595	620	1,216	704	1,325	1,920	63
68	3702	Greater Sarawak Basin	Gas	168	649	817	631	1,281	1,448	56
69	2014	Ghaba Salt Basin	Oil	466	878	1,344	371	1,250	1,715	78
70	1207	Baykit Arch	Oil	0	34	34	1,213	1,246	1,246	3
71	6090	Middle Magdalena	Oil	1,915	512	2,426	709	1,220	3,135	77

Rank	Province Code	Province Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
72	7183	Gulf of Guinea	Oil	74	162	236	1,004	1,166	1,240	19
73	3930	Gippsland Basin	Oil	3,077	784	3,860	310	1,093	4,170	93
74	3913	Browse Basin	Gas	19	27	46	1,055	1,083	1,101	4
75	2075	Euphrates/Mardin	Oil	282	312	594	749	1,061	1,343	44
76	3828	South Sumatra Basin	Oil	1,842	587	2,429	469	1,055	2,898	84
77	6063	Malvinas Basin	Oil	0	10	10	1,031	1,041	1,041	1
78	5302	Veracruz Basin	Oil	51	79	130	955	1,034	1,085	12
79	2058	Grand Erg/Ahnet Basin	Gas	106	388	494	599	986	1,093	45
80	4048	Pannonian Basin	Oil	1,567	623	2,190	359	982	2,550	86
81	5244	Williston Basin, Canada	Oil	2,696	809	3,506	154	963	3,660	96
82	1154	Amu-Darya Basin	Gas	80	686	766	270	957	1,037	74
83	2010	Ghudun-Khasfeh Flank Province	Oil	0	0	0	926	926	926	0
84	8048	Irrawaddy	Gas	527	188	715	724	912	1,439	50
85	2006	Shabwah Basin	Oil	0	113	113	685	798	798	14
86	5308	Yucatan Platform	Oil	0	0	0	754	754	754	0
87	3128	Ordos Basin	Oil	81	602	683	138	740	821	83
88	6117	Greater Antilles Deformed Belt	Oil	65	232	297	494	726	790	38
89	4047	North Carpathian Basin	Oil	649	286	935	391	677	1,326	71
90	4060	Po Basin	Gas	91	254	346	360	615	706	49
91	2074	Khleisha Uplift	Oil	250	407	657	105	512	762	86
92	2015	Central Oman Platform	Oil	3	68	71	424	493	495	14
93	4035	Northwest German Basin	Gas	1,867	413	2,280	56	468	2,336	98
94	2011	South Oman Salt Basin	Oil	203	297	500	97	394	596	84
95	3822	North Sumatra Basin	Gas	496	178	674	213	391	887	76
96	4068	Provence Basin	Gas	0	0	0	388	388	388	0
97	6083	Progreso Basin	Oil	122	53	175	237	290	412	43
98	8026	Kohat-Potwar	Oil	201	120	321	149	268	469	68
99	4036	Anglo-Dutch Basin	Gas	432	159	592	88	247	679	87
100	1209	Angara-Lena Terrace	Gas	0	0	0	242	242	242	0
101	1050	South Barents Basin	Gas	0	0	0	219	219	219	0
102	8042	Indus	Gas	111	70	180	103	173	283	64
103	7013	Senegal	Oil	0	10	10	157	167	168	6
104	1211	Cis-Patom Foredeep	Gas	0	0	0	161	161	161	0
105	1060	North Barents Basin	Gas	0	0	0	135	135	135	0
106	7303	Orange River Coastal	Gas	0	0	0	116	116	116	0
107	2089	Anah Graben	Oil	75	80	155	26	106	181	85
108	5306	Macuspana Basin	Oil	2	4	6	101	105	108	6
109	8047	Ganges-Brahmaputra Delta	Gas	3	3	5	103	105	108	5
110	3142	Sichuan Basin	Gas	47	63	110	27	91	138	80
111	2047	Hamra Basin	Oil	0	0	0	89	89	89	0
112	2025	Hail-Ga'Ara Arch	Gas	0	0	0	53	53	53	0
113	2028	Rutbah Uplift	Gas	0	0	0	53	53	53	0
114	2061	Ougarta Uplift	Oil	0	41	41	0	41	41	100

Rank	Province Code	Province Name	Major Commodity	Cumulative Oil (MMBO)	Remaining Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Future Oil (MMBO)	Oil Endowment (MMBO)	Discovery Maturity, Oil (%)
115	2031	Zagros Thrust Zone	Gas	0	0	0	38	38	38	0
116	2013	Huqf-Haushi Uplift	Oil	0	0	0	30	30	30	0
117	5245	Rocky Mountain Deformed Belt	Gas	176	22	198	6	28	204	97
118	2017	Oman Mountains	Oil	0	0	0	22	22	22	0
119	6103	Tobago Trough	Gas	0	20	20	0	20	20	100
120	3916	Carnarvon Basin	Oil	16	19	35	0	19	35	100
121	5317	Chicontepec Basin	Oil	0	0	0	15	15	15	1
122	8025	Sulaiman-Kirthar	Gas	0	0	0	12	12	12	0
123	2033	Sinai Basin	Oil	94	11	105	0	11	105	100
124	2029	Wadi-Surhan Basin	Gas	0	0	0	0	0	0	NA
125	4033	German-Polish Basin	Gas	0	0	0	0	0	0	100
126	4038	Munsterland Basin	Gas	0	0	0	0	0	0	NA
127	4046	Bohemia	Gas	1	0	1	0	0	1	100
128	4057	Transylvanian Basin	Gas	0	0	0	0	0	0	NA
129	5246	Mackenzie Foldbelt	Gas	0	0	0	0	0	0	NA
130	8023	Central Afghanistan	Gas	0	0	0	0	0	0	NA
131	8035	North Burma	Oil	1	0	1	0	0	1	100
132	1108	Azov-Kuban Basin	Gas	1,273	(-750)	524	417	(-332)	941	56
NA	1158	Tian Shan Foldbelt	NA	NA	NA	NA	0	NA	NA	NA
NA	1059	Ludlov Saddle	NA	NA	NA	NA	39	NA	NA	NA
NA	3161	Yunnan Guizhou Hubei Fold Belt	NA	NA	NA	NA	0	NA	NA	NA
NA	4028	Mid-North Sea High	NA	NA	NA	NA	0	NA	NA	NA
NA	4039	Southwest German Basin	NA	NA	NA	NA	0	NA	NA	NA
NA	5310	Sierra Madre de Chiapas-Peten Foldbelt	NA	NA	NA	NA	890	NA	NA	NA
NA	5316	Trans-Mexican Neovolcanic Axis	NA	NA	NA	NA	30	NA	NA	NA
NA	6022	Foz do Amazonas Basin	NA	NA	NA	NA	0	NA	NA	NA
NA	8002	Himalayan	NA	NA	NA	NA	0	NA	NA	NA

**Table AR-4h. Provinces ranked by future gas volume.**

[BCFG, billion cubic feet of gas. Values given are not necessarily those for the entire province, but only for that part assessed in World Petroleum Assessment 2000. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Cumulative gas is the reported volume of gas that has been produced. Remaining gas is the calculated remaining reserves; the difference between known and cumulative gas. Known gas is the reported discovered volume (cumulative production plus remaining reserves). Mean undiscovered gas is the mean volume estimated in World Petroleum Assessment 2000. Future gas is the remaining gas plus estimated mean undiscovered gas. Gas endowment is the known gas plus estimated mean undiscovered gas volumes. Discovery maturity is the percentage of gas discovered (known gas) with respect to gas endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. Negative values result from inconsistent reporting of cumulative and known volumes. Values in parentheses ( ) are questionable data. NA means not applicable; it is shown for all values except mean undiscovered gas if only one field is present in the province.]

Rank	Province Code	Province Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
1	1174	West Siberian Basin	Oil	218,465	1,051,584	1,270,049	642,934	1,694,518	1,912,983	66
2	2030	Zagros Fold Belt	Oil	10,333	389,111	399,444	212,008	601,119	611,451	65
3	2019	Rub Al Khali Basin	Oil	8,303	173,934	182,237	425,712	599,646	607,949	30
4	2022	Qatar Arch	Gas	1,018	464,582	465,600	17,385	481,967	482,985	96
5	2021	Greater Ghawar Uplift	Oil	26,493	222,057	248,550	226,969	449,026	475,519	52
6	2024	Mesopotamian Foredeep Basin	Oil	13,129	285,156	298,285	83,722	368,878	382,007	78
7	1154	Amu-Darya Basin	Gas	78,513	151,830	230,343	163,650	315,480	393,993	58
8	1016	North Caspian Basin	Oil	1,745	155,161	156,906	119,051	274,212	275,957	57
9	1050	South Barents Basin	Gas	0	70,020	70,020	160,857	230,877	230,877	30
10	7192	Niger Delta	Oil	6,232	87,579	93,811	132,716	220,295	226,526	41
11	1112	South Caspian Basin	Oil	8,591	27,403	35,994	173,310	200,713	209,304	17
12	6098	East Venezuela Basin	Oil	22,053	106,066	128,119	93,561	199,627	221,679	58
13	4017	Vestford-Helgeland	Oil	0	15,662	15,662	165,201	180,863	180,863	9
14	4025	North Sea Graben	Oil	31,235	128,603	159,839	37,745	166,348	197,584	81
15	2020	Interior Homocline-Central Arch	Oil	0	9,825	9,825	122,074	131,899	131,899	7
16	3948	Northwest Shelf	Gas	1,840	54,405	56,245	64,711	119,116	120,956	47
17	2058	Grand Erg/Ahnet Basin	Gas	4,980	109,053	114,034	8,664	117,717	122,697	93
18	2023	Widyan Basin-Interior Platform	Oil	60	7,295	7,355	94,746	102,041	102,101	7
19	3817	Kutei Basin	Oil	8,711	36,762	45,473	64,757	101,519	110,230	41
20	7203	West-Central Coastal	Oil	1,150	11,030	12,180	88,044	99,074	100,223	12
21	3702	Greater Sarawak Basin	Gas	3,731	78,433	82,164	19,247	97,680	101,411	81
22	1015	Volga-Ural Region	Oil	16,417	82,750	99,166	3,941	86,691	103,108	96
23	6036	Santos Basin	Oil	12	1,113	1,125	80,547	81,660	81,672	1
24	5200	East Greenland Rift Basins	Oil	0	0	0	80,709	80,709	80,709	0
25	1322	North Sakhalin Basin	Oil	162	22,221	22,383	57,451	79,673	79,835	28
26	1008	Timan-Pechora Basin	Oil	12,374	24,261	36,635	52,079	76,340	88,714	41
27	4035	Northwest German Basin	Gas	76,285	65,440	141,726	10,814	76,254	152,539	93
28	3703	Malay Basin	Oil	492	47,657	48,149	27,465	75,122	75,614	64

Rank	Province Code	Province Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
29	2056	Illizi Basin	Oil	750	44,311	45,061	28,138	72,449	73,199	62
30	2071	Red Sea Basin	Oil	849	8,668	9,517	60,012	68,680	69,529	14
31	3154	Tarim Basin	Oil	208	5,572	5,780	59,939	65,511	65,719	9
32	8047	Ganges-Brahmaputra Delta	Gas	2,669	9,620	12,289	55,091	64,711	67,380	18
33	1060	North Barents Basin	Gas	0	0	0	59,820	59,820	59,820	0
34	1109	Middle Caspian Basin	Oil	9,984	17,156	27,140	39,685	56,841	66,825	41
35	1210	Nepa-Botuoba Arch	Oil	0	22,035	22,035	29,971	52,006	52,006	42
36	4068	Provence Basin	Gas	0	0	0	51,210	51,210	51,210	0
37	3701	Baram Delta/Brunei-Sabah Basin	Oil	9,188	27,012	36,200	23,226	50,238	59,426	61
38	1009	Dnieper-Donets Basin	Gas	35,453	23,645	59,098	24,051	47,697	83,149	71
39	2043	Sirte Basin	Oil	5,479	32,288	37,767	14,984	47,272	52,752	72
40	4036	Anglo-Dutch Basin	Gas	40,547	30,880	71,427	14,976	45,856	86,402	83
41	6099	Maracaibo Basin	Oil	979	25,722	26,701	17,576	43,298	44,277	60
42	5305	Villahermosa Uplift	Oil	13,888	27,404	41,292	15,623	43,027	56,915	73
43	5243	Alberta Basin	Oil	47,573	31,097	78,670	11,895	42,992	90,565	87
44	6103	Tobago Trough	Gas	0	22,600	22,600	20,103	42,703	42,703	53
45	6021	Guyana-Suriname Basin	Oil	0	0	0	42,058	42,058	42,058	0
46	2054	Trias/Ghadames Basin	Oil	647	24,352	24,999	17,493	41,845	42,492	59
47	6045	Santa Cruz-Tarija Basin	Oil	6,928	10,058	16,985	31,107	41,165	48,092	35
48	3913	Browse Basin	Gas	0	17,960	17,960	20,093	38,053	38,053	47
49	3910	Bonaparte Gulf Basin	Gas	0	13,304	13,304	23,492	36,796	36,796	36
50	6034	Espirito Santo Basin	Oil	42	180	222	34,287	34,467	34,509	1
51	8043	Bombay	Oil	6,228	17,965	24,193	12,944	30,909	37,137	65
52	8048	Irrawaddy	Gas	721	9,288	10,009	20,521	29,809	30,530	33
53	6059	Magallanes Basin	Gas	10,053	14,754	24,807	14,040	28,794	38,848	64
54	4060	Po Basin	Gas	9,527	9,360	18,886	17,964	27,324	36,850	51
55	8042	Indus	Gas	8,385	11,211	19,596	15,964	27,175	35,560	55
56	3822	North Sumatra Basin	Gas	13,977	11,582	25,559	15,123	26,705	40,682	63
57	6035	Campos Basin	Oil	303	5,941	6,244	19,691	25,632	25,935	24
58	6055	Neuquen Basin	Oil	7,636	13,068	20,704	12,416	25,483	33,119	63
59	3828	South Sumatra Basin	Oil	3,125	7,080	10,204	18,250	25,330	28,455	36
60	2014	Ghaba Salt Basin	Oil	138	18,825	18,964	5,056	23,881	24,019	79
61	1108	Azov-Kuban Basin	Gas	7,492	11,118	18,610	12,252	23,369	30,861	60
62	6037	Pelotas Basin	Oil	0	0	0	22,806	22,806	22,806	0
63	2048	Pelagian Basin	Oil	43	17,167	17,210	5,556	22,724	22,766	76
64	2004	Ma'rib-Al Jawf/Masila Basin	Oil	0	16,507	16,507	5,944	22,451	22,451	74
65	1207	Baykit Arch	Oil	0	5,052	5,052	16,983	22,035	22,035	23
66	8025	Sulaiman-Kirthar	Gas	6,716	9,061	15,777	12,599	21,659	28,376	56
67	6096	Llanos Basin	Oil	139	15,175	15,314	6,217	21,391	15,651	98
68	3127	Bohaiwan Basin	Oil	2,987	12,685	15,672	8,514	21,199	24,186	65
69	1209	Angara-Lena Terrace	Gas	0	8,075	8,075	10,705	18,780	18,780	43
70	5304	Saline-Comalcalco Basin	Oil	1,023	1,223	2,246	16,423	17,645	18,669	12
71	3142	Sichuan Basin	Gas	6,236	6,290	12,526	10,311	16,601	22,837	55

Rank	Province Code	Province Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
72	6060	Falklands Plateau	Oil	0	0	0	16,581	16,581	16,581	0
73	5215	Labrador-Newfoundland Shelf	Oil	0	6,630	6,630	8,893	15,522	15,522	43
74	3824	Northwest Java Basin	Oil	1,026	7,028	8,055	7,453	14,481	15,508	52
75	2016	Fahud Salt Basin	Oil	1,151	8,832	9,983	4,878	13,710	14,861	67
76	1150	North Ustyurt Basin	Oil	0	2,413	2,413	10,770	13,183	13,183	18
77	4047	North Carpathian Basin	Oil	8,714	7,618	16,332	5,049	12,667	21,381	76
78	7183	Gulf of Guinea	Oil	46	1,903	1,949	10,071	11,974	12,020	16
79	6107	Lesser Antilles Deformed Belt	Oil	16	7	22	11,957	11,963	11,979	0
80	3930	Gippsland Basin	Oil	3,501	6,274	9,775	5,658	11,932	15,433	63
81	4057	Transylvanian Basin	Gas	21,194	9,537	30,731	2,083	11,620	32,814	94
82	4048	Pannonian Basin	Oil	6,534	7,308	13,842	4,143	11,452	17,986	77
83	6063	Malvinas Basin	Oil	0	75	75	11,327	11,402	11,402	1
84	5245	Rocky Mountain Deformed Belt	Gas	8,662	6,447	15,109	3,186	9,633	18,295	83
85	7303	Orange River Coastal	Gas	0	6,015	6,015	3,603	9,618	9,618	63
86	6029	Sergipe-Alagoas Basin	Oil	348	1,059	1,407	8,334	9,393	9,741	14
87	2029	Wadi-Surhan Basin	Gas	47	179	226	7,873	8,052	8,099	3
88	3144	Songliao Basin	Oil	3	1,739	1,743	5,706	7,446	7,449	23
89	5244	Williston Basin, Canada	Oil	10,378	6,876	17,254	502	7,379	17,756	97
90	4061	Carpathian-Balkanian Basin	Oil	3,126	4,139	7,265	3,179	7,319	10,445	70
91	3808	Central Sumatra Basin	Oil	910	2,956	3,866	4,078	7,034	7,944	49
92	2009	Masila-Jeza Basin	Oil	0	40	40	6,793	6,833	6,833	1
93	5301	Tampico-Misantla Basin	Oil	2,354	4,306	6,661	2,051	6,358	8,712	76
94	5302	Veracruz Basin	Oil	335	270	605	5,832	6,102	6,437	9
95	6090	Middle Magdalena	Oil	2,310	2,692	5,002	3,292	5,985	8,294	60
96	6081	Talara Basin	Oil	1,951	941	2,892	4,795	5,736	7,687	38
97	8034	Assam	Oil	2,039	4,495	6,534	1,178	5,673	7,712	85
98	6058	San Jorge Basin	Oil	1,667	1,898	3,565	3,774	5,672	7,339	49
99	2010	Ghudun-Khasfeh Flank Province	Oil	0	0	0	5,623	5,623	5,623	0
100	3128	Ordos Basin	Oil	13	5,597	5,610	20	5,617	5,630	100
101	5307	Campeche-Sigsbe Salt Basin	Oil	0	0	0	5,565	5,565	5,565	0
102	1211	Cis-Patom Foredeep	Gas	0	100	100	5,364	5,464	5,464	2
103	2006	Shabwah Basin	Oil	0	573	573	4,246	4,819	4,819	12
104	2015	Central Oman Platform	Oil	0	742	742	3,239	3,980	3,981	19
105	3115	Junggar Basin	Oil	501	2,082	2,583	1,296	3,379	3,879	67
106	2074	Khleisha Uplift	Oil	0	210	210	2,580	2,790	2,790	8
107	6041	Putumayo-Oriente-Maranon Basin	Oil	661	955	1,616	1,596	2,552	3,212	50
108	8026	Kohat-Potwar	Oil	784	1,147	1,931	1,314	2,460	3,245	60
109	2075	Euphrates/Mardin	Oil	66	1,668	1,734	749	2,418	2,483	70
110	5308	Yucatan Platform	Oil	0	0	0	1,496	1,496	1,496	0
111	2011	South Oman Salt Basin	Oil	0	188	188	1,236	1,424	1,424	13
112	2025	Hail-Ga'Ara Arch	Gas	0	0	0	1,290	1,290	1,290	0
113	2028	Rutbah Uplift	Gas	0	0	0	1,290	1,290	1,290	0
114	6083	Progreso Basin	Oil	148	350	498	695	1,044	1,193	42

Rank	Province Code	Province Name	Major Commodity	Cumulative Gas (BCFG)	Remaining Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Future Gas (BCFG)	Gas Endowment (BCFG)	Discovery Maturity, Gas (%)
115	2031	Zagros Thrust Zone	Gas	0	0	0	966	966	966	0
116	4033	German-Polish Basin	Gas	6,905	940	7,846	0	940	7,846	100
117	7013	Senegal	Oil	4	45	49	856	901	905	5
118	6117	Greater Antilles Deformed Belt	Oil	20	77	96	592	668	688	14
119	2013	Huqf-Haushi Uplift	Oil	0	0	0	404	404	404	0
120	5246	Mackenzie Foldbelt	Gas	379	252	631	43	295	674	94
121	8023	Central Afghanistan	Gas	27	244	271	0	244	271	100
122	2047	Hamra Basin	Oil	0	0	0	241	241	241	0
123	5306	Macuspana Basin	Oil	8	8	16	210	217	225	7
124	4046	Bohemia	Gas	114	117	231	0	117	231	100
125	3916	Carnarvon Basin	Oil	32	70	102	0	70	102	100
126	2089	Anah Graben	Oil	0	0	0	39	39	39	0
127	5317	Chicontepec Basin	Oil	0	2	2	32	34	34	6
128	4038	Munsterland Basin	Gas	121	31	152	0	31	152	100
129	2017	Oman Mountains	Oil	0	0	0	22	22	22	0
130	8035	North Burma	Oil	1	10	11	0	10	11	100
131	2061	Ougarta Uplift	Oil	0	6	6	0	6	6	100
132	2033	Sinai Basin	Oil	0	5	5	0	5	5	100
NA	1158	Tian Shan Foldbelt	NA	NA	NA	NA	0	NA	NA	NA
NA	1059	Ludlov Saddle	NA	NA	NA	NA	28,387	NA	NA	NA
NA	3161	Yunnan Guizhou Hubei Fold Belt	NA	NA	NA	NA	0	NA	NA	NA
NA	4028	Mid-North Sea High	NA	NA	NA	NA	0	NA	NA	NA
NA	4039	Southwest German Basin	NA	NA	NA	NA	0	NA	NA	NA
NA	5310	Sierra Madre de Chiapas-Peten Foldbelt	NA	NA	NA	NA	1,846	NA	NA	NA
NA	5316	Trans-Mexican Neovolcanic Axis	NA	NA	NA	NA	195	NA	NA	NA
NA	6022	Foz do Amazonas Basin	NA	NA	NA	NA	29,840	NA	NA	NA
NA	8002	Himalayan	NA	NA	NA	NA	0	NA	NA	NA

**Table AR-4i. Provinces ranked by total future petroleum volume.**

[MMBOE, million barrels of oil equivalent. Values given are not necessarily those for the entire province, but only for that part assessed in World Petroleum Assessment 2000. Major commodity is based on the ratio of gas endowment to oil endowment as cubic feet of gas per barrel of oil (CFG/BO). Major commodity is oil if this ratio is less than 20,000 CFG/BO and gas if this ratio is equal to or greater than 20,000 CFG/BO. Total cumulative petroleum is the reported volume of total petroleum that has been produced. Total remaining petroleum is the calculated remaining reserves; the difference between total known and total cumulative petroleum. Total known petroleum is the reported discovered volume (cumulative production plus remaining reserves). Total mean undiscovered petroleum is derived from the mean volumes of oil, gas, and NGL estimated in World Petroleum Assessment 2000. Total future petroleum is the total remaining petroleum plus estimated total mean undiscovered petroleum. Total petroleum endowment is the total known petroleum plus estimated total mean undiscovered petroleum volumes. Discovery maturity is the percentage of total petroleum discovered (total known petroleum) with respect to total petroleum endowment. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded. NA means not applicable; it is shown for all values except total mean undiscovered petroleum if only one field is present in the province.]

Rank	Province Code	Province Name	Major Commodity	Total Cumulative Petroleum (MMBOE)	Total Remaining Petroleum (MMBOE)	Total Known Petroleum (MMBOE)	Total Mean Undiscovered Petroleum (MMBOE)	Total Future Petroleum (MMBOE)	Total Petroleum Endowment (MMBOE)	Discovery Maturity, Total Petroleum (%)
1	1174	West Siberian Basin	Oil	83,213	271,517	354,730	182,864	454,380	537,593	66
2	2024	Mesopotamian Foredeep Basin	Oil	58,934	285,059	343,993	78,159	363,217	422,151	81
3	2019	Rub Al Khali Basin	Oil	20,998	101,760	122,757	137,868	239,627	260,625	47
4	2030	Zagros Fold Belt	Oil	51,102	138,437	189,539	90,292	228,729	279,831	68
5	2021	Greater Ghawar Uplift	Oil	62,169	129,511	191,680	63,808	193,319	255,488	75
6	7192	Niger Delta	Oil	17,646	35,353	53,000	68,640	103,994	121,640	44
7	2022	Qatar Arch	Gas	183	92,332	92,515	8,908	101,239	101,423	91
8	1016	North Caspian Basin	Oil	1,322	44,528	45,850	48,573	93,101	94,423	49
9	4025	North Sea Graben	Oil	28,183	48,322	76,505	21,248	69,570	97,753	78
10	6098	East Venezuela Basin	Oil	17,509	34,747	52,257	31,934	66,682	84,191	62
11	5200	East Greenland Rift Basins	Oil	0	0	0	64,769	64,769	64,769	0
12	1112	South Caspian Basin	Oil	13,334	10,607	23,941	52,725	63,332	76,665	31
13	2023	Widyan Basin-Interior Platform	Oil	229	18,457	18,686	43,855	62,312	62,541	30
14	7203	West-Central Coastal	Oil	5,957	9,854	15,811	48,665	58,519	64,476	25
15	1154	Amu-Darya Basin	Gas	13,357	26,975	40,332	31,541	58,516	71,873	56
16	2020	Interior Homocline-Central Arch	Oil	84	6,516	6,601	46,132	52,648	52,733	13
17	4017	Vestford-Helgeland	Oil	76	5,897	5,973	43,062	48,959	49,035	12
18	1050	South Barents Basin	Gas	0	11,770	11,770	30,377	42,147	42,147	28
19	6036	Santos Basin	Oil	12	505	517	40,828	41,332	41,344	1
20	1015	Volga-Ural Region	Oil	45,732	35,832	81,564	3,403	39,235	84,968	96
21	2043	Sirte Basin	Oil	14,929	28,566	43,496	10,000	38,566	53,496	81
22	5305	Villahermosa Uplift	Oil	17,004	24,993	41,997	10,957	35,950	52,955	79
23	1008	Timan-Pechora Basin	Oil	5,771	14,171	19,942	16,598	30,769	36,539	55
24	6099	Maracaibo Basin	Oil	35,745	17,820	53,565	12,086	29,906	65,651	82



Rank	Province Code	Province Name	Major Commodity	Total Cumulative Petroleum (MMBOE)	Total Remaining Petroleum (MMBOE)	Total Known Petroleum (MMBOE)	Total Mean Undiscovered Petroleum (MMBOE)	Total Future Petroleum (MMBOE)	Total Petroleum Endowment (MMBOE)	Discovery Maturity, Total Petroleum (%)
25	6035	Campos Basin	Oil	1,819	9,287	11,107	20,128	29,415	31,235	36
26	3948	Northwest Shelf	Gas	896	10,589	11,485	16,848	27,437	28,333	41
27	3817	Kutei Basin	Oil	3,691	8,040	11,731	18,060	26,100	29,791	39
28	2058	Grand Erg/Ahnet Basin	Gas	1,783	22,752	24,534	2,449	25,201	26,984	91
29	6021	Guyana-Suriname Basin	Oil	17	46	63	24,586	24,632	24,649	0
30	2071	Red Sea Basin	Oil	6,445	5,298	11,744	18,533	23,832	30,277	39
31	2054	Trias/Ghadames Basin	Oil	7,589	12,800	20,389	10,566	23,366	30,955	66
32	3127	Bohaiwan Basin	Oil	10,914	16,339	27,253	6,248	22,587	33,501	81
33	1109	Middle Caspian Basin	Oil	6,071	8,083	14,153	13,171	21,254	27,324	52
34	3154	Tarim Basin	Oil	80	1,776	1,856	19,250	21,026	21,106	9
35	1322	North Sakhalin Basin	Oil	785	5,292	6,077	15,156	20,449	21,234	29
36	3702	Greater Sarawak Basin	Gas	846	14,044	14,890	4,301	18,345	19,191	78
37	2056	Illizi Basin	Oil	2,485	9,593	12,078	8,536	18,129	20,614	59
38	3703	Malay Basin	Oil	1,609	10,346	11,955	6,319	16,665	18,274	65
39	3701	Baram Delta/Brunei-Sabah Basin	Oil	5,492	7,619	13,111	8,434	16,054	21,545	61
40	1210	Nepa-Botuoba Arch	Oil	1	5,974	5,976	7,643	13,618	13,619	44
41	4035	Northwest German Basin	Gas	14,589	11,340	25,929	1,881	13,221	27,810	93
42	8043	Bombay	Oil	4,417	8,323	12,740	4,666	12,989	17,406	73
43	6096	Llanos Basin	Oil	1,202	7,203	8,405	5,004	12,207	13,409	63
44	5243	Alberta Basin	Oil	22,342	8,760	31,101	3,128	11,888	34,229	91
45	5304	Saline-Comalcalco Basin	Oil	1,844	889	2,733	10,650	11,539	13,383	20
46	1009	Dnieper-Donets Basin	Gas	6,137	5,523	11,660	5,969	11,492	17,629	66
47	1060	North Barents Basin	Gas	0	0	0	11,355	11,355	11,355	0
48	8047	Ganges-Brahmaputra Delta	Gas	451	1,654	2,105	9,558	11,212	11,663	18
49	4068	Provence Basin	Gas	0	0	0	11,188	11,188	11,188	0
50	6045	Santa Cruz-Tarija Basin	Oil	1,655	2,045	3,699	8,629	10,674	12,328	30
51	6034	Espirito Santo Basin	Oil	100	68	169	10,285	10,354	10,454	2
52	3910	Bonaparte Gulf Basin	Gas	123	3,046	3,169	6,281	9,327	9,450	34
53	6060	Falklands Plateau	Oil	0	0	0	8,967	8,967	8,967	0
54	3913	Browse Basin	Gas	19	3,221	3,239	5,339	8,559	8,578	38
55	4036	Anglo-Dutch Basin	Gas	7,237	5,403	12,640	2,630	8,033	15,270	83
56	6037	Pelotas Basin	Oil	0	0	0	7,846	7,846	7,846	0
57	6103	Tobago Trough	Gas	0	3,867	3,867	3,551	7,418	7,418	52
58	6041	Putumayo-Oriente-Maranon Basin	Oil	2,999	3,871	6,871	3,418	7,290	10,289	67
59	3115	Junggar Basin	Oil	1,035	6,206	7,241	843	7,049	8,084	90
60	3808	Central Sumatra Basin	Oil	8,500	5,372	13,872	1,663	7,034	15,535	89
61	2048	Pelagian Basin	Oil	528	4,646	5,174	2,323	6,970	7,497	69
62	6055	Neuquen Basin	Oil	2,883	3,276	6,159	3,562	6,838	9,721	63
63	8048	Irrawaddy	Gas	649	1,797	2,446	4,930	6,726	7,376	33
64	5215	Labrador-Newfoundland Shelf	Oil	0	2,875	2,875	3,792	6,667	6,667	48
65	6059	Magallanes Basin	Gas	2,359	3,202	5,562	3,354	6,556	8,915	62

Rank	Province Code	Province Name	Major Commodity	Total Cumulative Petroleum (MMBOE)	Total Remaining Petroleum (MMBOE)	Total Known Petroleum (MMBOE)	Total Mean Undiscovered Petroleum (MMBOE)	Total Future Petroleum (MMBOE)	Total Petroleum Endowment (MMBOE)	Discovery Maturity, Total Petroleum (%)
66	2004	MaRib-Al Jawf/Masila Basin	Oil	536	3,712	4,248	2,273	5,985	6,521	65
67	2014	Ghaba Salt Basin	Oil	489	4,492	4,981	1,436	5,928	6,416	78
68	1207	Baykit Arch	Oil	0	936	936	4,897	5,833	5,833	16
69	3144	Songliao Basin	Oil	12,399	3,466	15,865	2,189	5,655	18,054	88
70	3828	South Sumatra Basin	Oil	2,367	1,819	4,186	3,750	5,569	7,936	53
71	2016	Fahud Salt Basin	Oil	2,754	3,535	6,288	2,008	5,543	8,297	76
72	1150	North Ustyurt Basin	Oil	459	2,318	2,777	3,193	5,511	5,970	47
73	3822	North Sumatra Basin	Gas	3,409	2,451	5,860	2,914	5,365	8,774	67
74	8042	Indus	Gas	1,512	1,970	3,482	3,328	5,299	6,811	51
75	4060	Po Basin	Gas	1,706	1,820	3,526	3,476	5,296	7,002	50
76	3824	Northwest Java Basin	Oil	1,771	2,914	4,685	2,007	4,922	6,692	70
77	4061	Carpathian-Balkanian Basin	Oil	4,624	2,571	7,195	1,659	4,230	8,854	81
78	6107	Lesser Antilles Deformed Belt	Oil	11	3	14	4,110	4,113	4,124	0
79	8025	Sulaiman-Kirthar	Gas	1,121	1,535	2,657	2,553	4,089	5,210	51
80	3930	Gippsland Basin	Oil	3,815	2,375	6,190	1,592	3,967	7,782	80
81	1209	Angara-Lena Terrace	Gas	0	1,409	1,409	2,526	3,935	3,935	36
82	1108	Azov-Kuban Basin	Gas	2,589	1,091	3,681	2,675	3,766	6,355	58
83	5307	Campeche-Sigsbe Salt Basin	Oil	0	0	0	3,714	3,714	3,714	0
84	6029	Sergipe-Alagoas Basin	Oil	528	402	929	3,292	3,693	4,221	22
85	7183	Gulf of Guinea	Oil	81	515	596	2,965	3,480	3,561	17
86	3142	Sichuan Basin	Gas	1,086	1,112	2,198	2,202	3,313	4,400	50
87	6063	Malvinas Basin	Oil	0	25	25	3,280	3,305	3,305	1
88	6081	Talara Basin	Oil	1,715	439	2,154	2,765	3,204	4,919	44
89	5301	Tampico-Misantla Basin	Oil	6,165	1,840	8,005	1,354	3,194	9,359	86
90	2009	Masila-Jeza Basin	Oil	144	496	641	2,598	3,094	3,238	20
91	4048	Pannonian Basin	Oil	2,691	1,892	4,583	1,178	3,070	5,761	80
92	8034	Assam	Oil	1,251	2,379	3,630	663	3,042	4,292	85
93	4047	North Carpathian Basin	Oil	2,104	1,559	3,663	1,344	2,903	5,007	73
94	6058	San Jorge Basin	Oil	2,723	1,218	3,942	1,203	2,421	5,144	77
95	6090	Middle Magdalena	Oil	2,300	1,028	3,328	1,388	2,416	4,715	71
96	5302	Veracruz Basin	Oil	107	125	232	2,214	2,339	2,446	9
97	2010	Ghudun-Khasfeh Flank Province	Oil	0	0	0	2,258	2,258	2,258	0
98	5244	Williston Basin, Canada	Oil	4,468	1,963	6,431	252	2,215	6,683	96
99	2029	Wadi-Surhan Basin	Gas	8	30	38	1,942	1,972	1,979	2
100	4057	Transylvanian Basin	Gas	3,532	1,589	5,122	354	1,943	5,475	94
101	7303	Orange River Coastal	Gas	0	1,003	1,003	879	1,882	1,882	53
102	2006	Shabwah Basin	Oil	0	210	210	1,624	1,833	1,833	11
103	5245	Rocky Mountain Deformed Belt	Gas	1,916	1,199	3,115	613	1,812	3,728	84
104	3128	Ordos Basin	Oil	83	1,535	1,618	143	1,678	1,761	92
105	2075	Euphrates/Mardin	Oil	293	607	900	893	1,500	1,793	50
106	1211	Cis-Patom Foredeep	Gas	0	17	17	1,309	1,325	1,325	1

Rank	Province Code	Province Name	Major Commodity	Total Cumulative Petroleum (MMBOE)	Total Remaining Petroleum (MMBOE)	Total Known Petroleum (MMBOE)	Total Mean Undiscovered Petroleum (MMBOE)	Total Future Petroleum (MMBOE)	Total Petroleum Endowment (MMBOE)	Discovery Maturity, Total Petroleum (%)
107	2015	Central Oman Platform	Oil	3	198	200	1,090	1,287	1,290	16
108	2074	Khleisha Uplift	Oil	250	442	692	739	1,180	1,430	48
109	5308	Yucatan Platform	Oil	0	0	0	1,092	1,092	1,092	0
110	6117	Greater Antilles Deformed Belt	Oil	68	245	313	628	873	940	33
111	8026	Kohat-Potwar	Oil	341	343	684	422	765	1,106	62
112	2011	South Oman Salt Basin	Oil	203	343	546	357	701	903	60
113	6083	Progreso Basin	Oil	147	111	258	385	497	644	40
114	2025	Hail-Ga'Ara Arch	Gas	0	0	0	369	369	369	0
115	2028	Rutbah Uplift	Gas	0	0	0	369	369	369	0
116	7013	Senegal	Oil	1	18	19	343	361	362	5
117	2031	Zagros Thrust Zone	Gas	0	0	0	242	242	242	0
118	4033	German-Polish Basin	Gas	1,151	157	1,308	0	157	1,308	100
119	5306	Macuspana Basin	Oil	4	5	9	149	154	158	6
120	2047	Hamra Basin	Oil	0	0	0	148	148	148	0
121	2013	Huqf-Haushi Uplift	Oil	0	0	0	115	115	115	0
122	2089	Anah Graben	Oil	75	80	155	35	115	190	81
123	5246	Mackenzie Foldbelt	Gas	63	42	105	8	50	113	93
124	2061	Ougarta Uplift	Oil	0	42	42	0	42	42	100
125	8023	Central Afghanistan	Gas	5	41	45	0	41	45	100
126	3916	Carnarvon Basin	Oil	21	31	52	0	31	52	100
127	2017	Oman Mountains	Oil	0	0	0	27	27	27	0
128	4046	Bohemia	Gas	21	22	43	0	22	43	100
129	5317	Chicontepepec Basin	Oil	0	0	0	22	22	22	2
130	2033	Sinai Basin	Oil	94	12	106	0	12	106	100
131	4038	Munsterland Basin	Gas	20	5	25	0	5	25	100
132	8035	North Burma	Oil	2	2	3	0	2	3	100
NA	1158	Tian Shan Foldbelt	NA	NA	NA	NA	0	NA	NA	NA
NA	1059	Ludlov Saddle	NA	NA	NA	NA	5,361	NA	NA	NA
NA	3161	Yunnan Guizhou Hubei Fold Belt	NA	NA	NA	NA	0	NA	NA	NA
NA	4028	Mid-North Sea High	NA	NA	NA	NA	0	NA	NA	NA
NA	4039	Southwest German Basin	NA	NA	NA	NA	0	NA	NA	NA
NA	5310	Sierra Madre de Chiapas-Peten Foldbelt	NA	NA	NA	NA	1,307	NA	NA	NA
NA	5316	Trans-Mexican Neovolcanic Axis	NA	NA	NA	NA	72	NA	NA	NA
NA	6022	Foz do Amazonas Basin	NA	NA	NA	NA	5,272	NA	NA	NA
NA	8002	Himalayan	NA	NA	NA	NA	0	NA	NA	NA

**Table AR-5. Assessment units ranked by estimated size of largest undiscovered oil field.**

[MMBO, million barrels of oil. Size of largest field is the mean of the distribution for size of the largest undiscovered oil field. Hypothetical, no discovered fields in the assessment unit of at least minimum field size; frontier, 1 to 13 fields; established, more than 13 fields.]

Rank	Assessment Unit Code	Assessment Unit Name	Largest Field (MMBO)	Assessment Unit Maturity
1	20300101	Cretaceous Reservoirs	11,984	Established
2	52000101	Northeast Greenland Shelf Rift Systems	6,107	Hypothetical
3	10160104	South Margin Subsalt	5,070	Frontier
4	20190302	Paleozoic Reservoirs	4,234	Established
5	20300102	Tertiary Reservoirs	3,426	Established
6	20210201	Horst-Block Anticlinal Oil	2,728	Established
7	72030302	Central Congo Turbidites	2,698	Established
8	60210101	Late Cretaceous-Tertiary Turbidites	2,654	Hypothetical
9	20190201	Jurassic Reservoirs in Northwest Desert Anticlines	2,581	Frontier
10	20210202	Salt-Involved Structural Oil	2,204	Frontier
11	20210101	Central Arch Horst-Block Anticlinal Oil and Gas	2,141	Established
12	60360101	Santos Shelf	1,989	Frontier
13	60350103	Salt Dome Province Tertiary Sandstones	1,872	Hypothetical
14	60360102	Salt-Structured Deep-Water Sandstones	1,624	Hypothetical
15	71920102	Akata Reservoirs	1,586	Hypothetical
16	11740101	Upper Jurassic-Cretaceous Sandstones	1,577	Established
17	60350101	Late Cretaceous-Tertiary Turbidites	1,571	Established
18	60980101	East Venezuela Fold and Thrust Belt	1,412	Established
19	11120104	Central Offshore	1,397	Hypothetical
20	53050106	Tamaulipas-Like Basinal Limestone and Tertiary Strata Overlying Evaporites	1,264	Established
21	72030201	Gabon Suprasalt	1,112	Established
22	11120103	Gograndag-Okarem Zone and Adjacent Shelf	1,106	Established
23	53050102	Tamabra-Like Debris-Flow-Breccia Limestone Overlying Evaporites	1,105	Established
24	20190101	Cretaceous Reservoirs in Northwest Desert Anticlines	1,067	Established
25	60980202	Orinoco Delta and Offshore	1,048	Hypothetical
26	61070101	Inner Forearc Deformation Belt	1,048	Hypothetical
27	71920101	Agbada Reservoirs	1,013	Established
28	60990101	Main Maracaibo Basin	994	Established
29	60600201	South Falklands Basin	961	Hypothetical
30	60600101	North Falklands Basin	955	Hypothetical
31	40170101	Halten Terrace-Trondelag Platform	897	Established
32	11740302	South Kara Sea Offshore	891	Frontier
33	60370101	Pelotas Platform and Basin	824	Hypothetical
34	20190102	Cretaceous Reservoirs in South Gulf Suprasalt Structural	820	Established
35	20540301	Tanezzuft-Ghadames Structural/Stratigraphic	817	Established
36	38170102	Kutei Basin Turbidites	815	Hypothetical
37	11120101	Apsheron-Pribalkhan Zone	765	Established

Rank	Assessment Unit Code	Assessment Unit Name	Largest Field (MMBO)	Assessment Unit Maturity
38	31540101	Tarim Basin Excluding Marginal Foldbelts	717	Hypothetical
39	40250101	Viking Graben	709	Established
40	60340102	Late Cretaceous-Tertiary Slide Blocks and Turbidites	708	Established
41	60210102	Cretaceous Carbonates	701	Hypothetical
42	10080102	Main Basin Platform	589	Established
43	60960102	Peripheral	568	Established
44	20230101	Horst/Graben-Related Oil and Gas	563	Established
45	72030301	Central Congo Delta and Carbonate Platform	557	Established
46	20540201	Tanezzuft-Melrhir Structural/Stratigraphic	550	Frontier
47	20190202	Jurassic Reservoirs in South Gulf Suprasalt/Qatar Arch Structural	534	Established
48	13220101	Onshore and Offshore Northeastern Shelf	520	Established
49	53050107	Tamabra-Like Debris-Flow-Breccia Limestone North of Campeche	506	Hypothetical
50	40250103	Central Graben	466	Established
51	11740201	Pre-Upper Jurassic	446	Established
52	12100101	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	444	Established
53	10160103	East and Southeast Margins Subsalt	430	Frontier
54	20430102	Central Sirte Carbonates	426	Established
55	60960101	Central	426	Established
56	20230201	Platform Horst/Graben-Related Oil	418	Frontier
57	39130101	Late Jurassic/Early Cretaceous-Mesozoic	408	Frontier
58	10160101	North and West Margins Subsalt Pinnacle Reefs	405	Established
59	60290102	Late Cretaceous-Tertiary Deep-Water Sandstones	390	Frontier
60	60450103	Foreland Central Chaco High	387	Hypothetical
61	11090101	Foldbelt-Foothills	375	Established
62	12070101	Yenisey Foldbelt Riphean-Craton Margin Riphean	374	Frontier
63	20430101	Southeast Sirte Clastics	363	Established
64	20710101	Gulf of Suez Block-Fault Fairway	358	Established
65	20160101	Fahud-Huqf Combined Structural	349	Established
66	31270102	Pre-Tertiary Buried Hills	349	Established
67	11120102	Lower Kura Depression and Adjacent Shelf	348	Established
68	60410101	Hollin-Napo	332	Established
69	60340103	Abrolhos Sub-Volcanic Structures	331	Hypothetical
70	20230202	Basinal Oil and Gas	315	Hypothetical
71	72030401	Cuanza-Namibe	315	Frontier
72	11500101	Mesozoic Sandstone Reservoirs	298	Frontier
73	40680101	Subsalt	297	Hypothetical
74	60450102	Foreland Basins	295	Frontier
75	31270101	Tertiary Lacustrine	285	Established
76	60810101	Cretaceous-Paleogene Basin	283	Established
77	37010101	Brunei-Sabah Deltaics	276	Established
78	37010102	Brunei-Sabah Turbidites	272	Frontier
79	20040101	Ma'rib-Al Jawf/Shabwah/Masila	267	Established
80	52150101	Jeanne d'Arc	263	Established

Rank	Assessment Unit Code	Assessment Unit Name	Largest Field (MMBO)	Assessment Unit Maturity
81	39480101	Dingo-Mungaroo/Barrow	257	Established
82	39100301	Malita	255	Established
83	10160106	Suprasalt	253	Established
84	11740301	Northern West Siberian Onshore Gas	244	Established
85	38170101	Kutei Basin Deltaics	243	Established
86	20430103	Offshore Sirte Hypothetical	223	Hypothetical
87	20560101	Tanezzuft-Illizi Structural/Stratigraphic	222	Established
88	10090102	Devonian Synrift	210	Hypothetical
89	60630101	Malvinas Extensional Structures	208	Frontier
90	80430101	Eocene-Miocene Bombay Shelf	203	Established
91	71830101	Coastal Plain and Offshore	201	Established
92	53050103	Tamabra-Like Debris-Flow-Breccia Limestone and Overlying Strata	200	Established
93	20710201	Red Sea Coastal Block Faults	192	Frontier
94	53050104	Tamabra-Like Debris-Flow-Breccia Limestone of the Golden Lane	188	Established
95	11090301	Offshore Prikumsk Zone	182	Hypothetical
96	40170102	Mid-Norway Continental Margin	181	Hypothetical
97	20190103	Mesozoic/Tertiary Foredeep Fold and Thrust	177	Established
98	72030101	Gabon Subsalt	173	Established
99	31540103	Southwest Foldbelt	171	Established
100	10500101	Kolguyev Terrace	143	Frontier
101	37030101	South Malay Lacustrine	143	Established
102	60350102	Cretaceous Carbonates	141	Frontier
103	40250102	Moray Firth	140	Established
104	60980103	Maturin Sub-Basin	134	Established
105	40600201	Thermal Triassic	133	Frontier
106	60550101	Neuquen Extensional Structures	128	Established
107	20430104	Southeast Sirte Hypothetical	127	Hypothetical
108	80480101	Central Burma Basin	123	Established
109	20160201	Natih-Fiqa Structural/Stratigraphic	119	Frontier
110	20710202	Red Sea Salt Basin	118	Hypothetical
111	10500102	South Barents and Ludlov Saddle	115	Frontier
112	20540101	Tanezzuft-Oued Mya Structural/Stratigraphic	114	Established
113	11090201	South Mangyshlak (Entire)	114	Established
114	20710103	Southern Gulf of Suez	112	Frontier
115	20140101	Ghaba-Makarem Combined Structural	111	Established
116	20480101	Bou Dabbous-Tertiary Structural/Stratigraphic	110	Established
117	11090102	Terek-Sunzha Subsalt Jurassic	109	Hypothetical
118	60980201	Trinidad Basins	109	Established
119	53050105	Tamaulipas-Like Basinal Limestone and Tertiary Strata Without Underlying Ev	107	Established
120	80430102	Eocene-Miocene Cambay Deltaic	106	Established
121	38080101	Pematang/Sihapas Siliciclastics	105	Established
122	11120105	Iran Onshore/Nearshore	97	Hypothetical
123	31150101	Upper Paleozoic/Lower Mesozoic Nonmarine Coarse Clastics	93	Frontier

Rank	Assessment Unit Code	Assessment Unit Name	Largest Field (MMBO)	Assessment Unit Maturity
124	61170101	North Cuba Fold and Thrust Belt	93	Established
125	38170103	Kutei Basin Fold and Thrust Belt	93	Established
126	38240101	Sunda/Asri	91	Established
127	40610202	Romania Ploiesti Zone	85	Established
128	10150103	Sub-Domanik Devonian Clastics	82	Established
129	38280101	South Sumatra	82	Established
130	60550102	Neuquen Foothills Structure	77	Established
131	10080103	Foredeep Basins	74	Established
132	10500103	North Barents	74	Hypothetical
133	31440101	Subtle Traps	73	Established
134	60210103	Late Cretaceous-Tertiary Nearshore Sandstones	73	Established
135	60990102	Southwest Maracaibo Basin Fold Belt	73	Established
136	37020102	Balingian	72	Established
137	20710102	Gulf of Suez Qaa Plain	71	Hypothetical
138	73030101	Offshore	69	Established
139	10160102	North and West Margins Subsalt Barrier Reefs	66	Frontier
140	20480201	Jurassic-Cretaceous Structural/Stratigraphic	66	Established
141	70130101	Coastal Plain and Offshore	66	Frontier
142	60980102	Guarico Sub-Basin	65	Established
143	10150101	Supra-Domanik Carbonates/Clastics	64	Established
144	20580301	Tanezzuft-Sbaa Structural/Stratigraphic	63	Frontier
145	10090101	Carboniferous-Lower Permian Clastics	63	Established
146	60580101	San Jorge Extensional Structures	62	Established
147	80480102	Irrawaddy-Andaman	61	Established
148	11090303	Central Caspian Offshore	61	Hypothetical
149	60830201	Cretaceous-Paleogene Santa Elena Block	60	Frontier
150	53050101	El Abra-Like Reef and Backreef Limestone	60	Established
151	60590101	Magallanes Extensional Structures	59	Established
152	60900102	Southern	57	Frontier
153	60590102	Andean Fold Belt Structures	55	Frontier
154	37030102	North Malay Lacustrine	55	Frontier
155	11080101	Tertiary Foredeep	55	Established
156	11540104	Murgab Depression Subsalt	54	Established
157	31440102	Anticlinal	53	Established
158	80340101	Sylhet-Kopili/Barail-Tipam Composite	52	Established
159	60900104	La Luna and Older	52	Frontier
160	37020201	East Natuna	51	Frontier
161	31540102	Kuche (Northern) Foldbelt	49	Frontier
162	39300101	Gippsland	49	Established
163	40610201	Romania Flysch Zone	48	Established
164	39480201	Locker-Mungaroo/Barrow	47	Frontier
165	11090103	Foreland Slope and Foredeep	43	Frontier
166	38220102	Mergui	42	Hypothetical

Rank	Assessment Unit Code	Assessment Unit Name	Largest Field (MMBO)	Assessment Unit Maturity
167	38240201	Ardjuna	42	Established
168	11500201	Jurassic-Tertiary Reservoirs	42	Frontier
169	60900101	Northern	41	Established
170	40470201	Deformed Belt	39	Established
171	60410201	Ene	37	Hypothetical
172	31150201	Jurassic/Tertiary Fluvial and Lacustrine Sandstone	34	Frontier
173	20580501	Tanezzuft-Benoud Structural/Stratigraphic	34	Frontier
174	11080103	Subsalt Jurassic	34	Frontier
175	80260101	Kohat-Potwar Intrathrust Basin	33	Established
176	60900103	Eastern	33	Established
177	11090302	Onshore Stavropol-Prikumsk	33	Established
178	39100101	Barnett	31	Frontier
179	60450101	Sub-Andean Fold and Thrust Belt	28	Established
180	38220101	North Sumatra	26	Established
181	10150102	Lower Volga	26	Established
182	60580102	San Bernardo Fold Belt Structures	26	Established
183	11080102	Foreland Slope	23	Established
184	20580201	Tanezzuft-Ahnet Structural/Stratigraphic	23	Established
185	11540102	Karabil-Badkhyz (Southern Area)	23	Established
186	10080101	Northwest Izhma-Pechora Depression	23	Hypothetical
187	40610101	Moesian Platform	22	Established
188	37030201	South Malay Coaly	21	Established
189	20580101	Tanezzuft-Timimoun Structural/Stratigraphic	21	Frontier
190	52430202	Leduc Oil and Gas	21	Established
191	60550103	Dorsal de Neuquen Structure	21	Established
192	20580401	Tanezzuft-Mouydir Structural/Stratigraphic	21	Hypothetical
193	40480101	Greater Hungarian Plain Basins	21	Established
194	80470201	Western Shelf and Slope	19	Established
195	60830101	Neogene Pull-Apart Basin	19	Frontier
196	31280101	Jurassic/Triassic Fluvial and Lacustrine Sandstone	19	Established
197	80420101	Greater Indus Foreland and Foldbelt	18	Established
198	40360102	Southern Permian Basin-Europe Onshore	18	Established
199	11540101	Northern and Western Areas	18	Established
200	40480201	Zala-Drava-Sava Basins	18	Established
201	20580601	Tanezzuft-Bechar/Abadla Structural/Stratigraphic	18	Hypothetical
202	10150201	Permian Reefs/Thrust Folds	16	Frontier
203	40480601	Hungarian Paleogene Basin	15	Frontier
204	52430102	Keg River Oil and Gas	15	Established
205	40470301	Paleozoic Reservoirs	12	Established
206	52430302	Exshaw-Rundle Oil and Gas	11	Established
207	40360103	Southern Permian Basin-Offshore	9	Established
208	80470302	Eastern Fold Belt	9	Established
209	52430402	Combined Triassic/Jurassic Oil and Gas	8	Established



Rank	Assessment Unit Code	Assessment Unit Name	Largest Field (MMBO)	Assessment Unit Maturity
210	60290101	Western Pre-Aptian Reservoirs	8	Established
211	60340101	Espirito Santo Shelf	7	Established
212	52440401	Lodgepole Oil	7	Established
213	80470301	Central Basin	7	Hypothetical
214	31420201	Jurassic Lacustrine	6	Frontier
215	52430602	Second White Specks-Cardium Oil and Gas	5	Established
216	40360101	Southern Permian Basin-U.K. Onshore	3	Established
217	52440101	Yeoman Oil	2	Established
218	52440301	Bakken Sandstone	2	Frontier
219	52440201	Brightholme Oil	2	Frontier

**Table AR-6. Assessment units ranked by estimated size of largest undiscovered gas field.**

[BCFG, billion cubic feet of gas. Size of largest field is the mean of the distribution for size of the largest undiscovered gas field. Hypothetical, no discovered fields in the assessment unit of at least minimum field size; frontier, 1 to 13 fields; established, more than 13 fields.]

Rank	Assessment Unit Code	Assessment Unit Name	Largest Field (BCFG)	Assessment Unit Maturity
1	11740302	South Kara Sea Offshore	88,058	Frontier
2	20190302	Paleozoic Reservoirs	47,103	Established
3	11540104	Murgab Depression Subsalt	35,323	Established
4	40170102	Mid-Norway Continental Margin	31,943	Hypothetical
5	10500102	South Barents and Ludlov Saddle	29,826	Frontier
6	20210102	North Gulf Salt Basin Structural Gas	22,624	Frontier
7	20210101	Central Arch Horst-Block Anticlinal Oil and Gas	22,212	Established
8	11740301	Northern West Siberian Onshore Gas	18,754	Established
9	10160104	South Margin Subsalt	13,408	Frontier
10	40680101	Subsalt	12,709	Hypothetical
11	20300201	Northern Qatar Arch Extension	12,597	Frontier
12	10500103	North Barents	11,967	Hypothetical
13	10160101	North and West Margins Subsalt Pinnacle Reefs	10,292	Established
14	11120104	Central Offshore	9,982	Hypothetical
15	13220101	Onshore and Offshore Northeastern Shelf	8,217	Established
16	20300102	Tertiary Reservoirs	7,312	Established
17	52000101	Northeast Greenland Shelf Rift Systems	7,112	Hypothetical
18	11120102	Lower Kura Depression and Adjacent Shelf	6,692	Established
19	20190201	Jurassic Reservoirs in Northwest Desert Anticlines	6,635	Frontier
20	11120103	Gograndag-Okarem Zone and Adjacent Shelf	6,578	Established
21	60360101	Santos Shelf	6,507	Frontier
22	61070101	Inner Forearc Deformation Belt	5,567	Hypothetical
23	38170101	Kutei Basin Deltaics	5,557	Established
24	40170101	Halten Terrace-Trondelag Platform	5,473	Established
25	20300101	Cretaceous Reservoirs	5,401	Established
26	60340102	Late Cretaceous-Tertiary Slide Blocks and Turbidites	5,058	Established
27	20230101	Horst/Graben-Related Oil and Gas	4,993	Established
28	12100101	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	4,954	Established
29	39130101	Late Jurassic/Early Cretaceous-Mesozoic	4,935	Frontier
30	39480101	Dingo-Mungaroo/Barrow	4,727	Established
31	20710201	Red Sea Coastal Block Faults	4,611	Frontier
32	20190301	Khuff Carbonates in Salt Structures	4,446	Frontier
33	60370101	Pelotas Platform and Basin	4,244	Hypothetical
34	38170102	Kutei Basin Turbidites	4,196	Hypothetical
35	31540101	Tarim Basin Excluding Marginal Foldbelts	3,965	Hypothetical
36	60980202	Orinoco Delta and Offshore	3,965	Hypothetical
37	80420101	Greater Indus Foreland and Foldbelt	3,810	Established

Rank	Assessment Unit Code	Assessment Unit Name	Largest Field (BCFG)	Assessment Unit Maturity
38	71920101	Agbada Reservoirs	3,778	Established
39	72030302	Central Congo Turbidites	3,483	Established
40	60340103	Abrolhos Sub-Volcanic Structures	3,430	Hypothetical
41	10080103	Foredeep Basins	3,373	Established
42	80470302	Eastern Fold Belt	3,312	Established
43	61030101	Carupano Basin Gas	3,292	Frontier
44	80480102	Irrawaddy-Andaman	3,276	Established
45	60220101	Amazon Delta and Submarine Fan	3,241	Established
46	60210101	Late Cretaceous-Tertiary Turbidites	3,141	Hypothetical
47	10500101	Kolguyev Terrace	2,910	Frontier
48	60980101	East Venezuela Fold and Thrust Belt	2,900	Established
49	12070101	Yenisey Foldbelt Riphean-Craton Margin Riphean	2,709	Frontier
50	80470301	Central Basin	2,645	Hypothetical
51	20190103	Mesozoic/Tertiary Foredeep Fold and Thrust	2,604	Established
52	60980201	Trinidad Basins	2,558	Established
53	60450101	Sub-Andean Fold and Thrust Belt	2,533	Established
54	39480201	Locker-Mungaroo/Barrow	2,475	Frontier
55	11500301	Upper Paleozoic Carbonates	2,429	Hypothetical
56	38280101	South Sumatra	2,407	Established
57	53050106	Tamaulipas-Like Basinal Limestone and Tertiary Strata Overlying Evaporites	2,323	Established
58	39100301	Malita	2,281	Established
59	37030101	South Malay Lacustrine	2,266	Established
60	40250101	Viking Graben	2,185	Established
61	10080102	Main Basin Platform	2,125	Established
62	31540102	Kuche (Northern) Foldbelt	2,108	Frontier
63	60980102	Guarico Sub-Basin	2,056	Established
64	11090102	Terek-Sunzha Subsalt Jurassic	2,054	Hypothetical
65	72030201	Gabon Suprasalt	2,022	Established
66	20140101	Ghaba-Makarem Combined Structural	2,006	Established
67	80420102	Indus Fan	1,994	Hypothetical
68	37020101	Central Luconia	1,923	Established
69	20230202	Basinal Oil and Gas	1,891	Hypothetical
70	60360102	Salt-Structured Deep-Water Sandstones	1,886	Hypothetical
71	20560101	Tanezzuft-Illizi Structural/Stratigraphic	1,842	Established
72	60290102	Late Cretaceous-Tertiary Deep-Water Sandstones	1,813	Frontier
73	37010101	Brunei-Sabah Deltaics	1,729	Established
74	38220102	Mergui	1,715	Hypothetical
75	11090101	Foldbelt-Foothills	1,710	Established
76	39100201	Petrel	1,560	Frontier
77	10090102	Devonian Synrift	1,525	Hypothetical
78	60630101	Malvinas Extensional Structures	1,524	Frontier
79	20430102	Central Sirte Carbonates	1,522	Established
80	71920102	Akata Reservoirs	1,513	Hypothetical

Rank	Assessment Unit Code	Assessment Unit Name	Largest Field (BCFG)	Assessment Unit Maturity
81	11120101	Apsheron-Pribalkhan Zone	1,489	Established
82	31540103	Southwest Foldbelt	1,457	Established
83	40250103	Central Graben	1,452	Established
84	60600101	North Falklands Basin	1,448	Hypothetical
85	38220101	North Sumatra	1,438	Established
86	60600201	South Falklands Basin	1,435	Hypothetical
87	40360102	Southern Permian Basin-Europe Onshore	1,374	Established
88	20430103	Offshore Sirte Hypothetical	1,338	Hypothetical
89	73030101	Offshore	1,247	Established
90	10090101	Carboniferous-Lower Permian Clastics	1,207	Established
91	37010102	Brunei-Sabah Turbidites	1,183	Frontier
92	60590101	Magallanes Extensional Structures	1,176	Established
93	71830101	Coastal Plain and Offshore	1,138	Established
94	40600101	Neogene Flysch Gas	1,097	Established
95	80470201	Western Shelf and Slope	1,090	Established
96	11080102	Foreland Slope	1,061	Established
97	20160101	Fahud-Huqf Combined Structural	1,033	Established
98	20540301	Tanezzuft-Ghadames Structural/Stratigraphic	1,014	Established
99	39100202	Vulcan Graben	1,009	Hypothetical
100	60210102	Cretaceous Carbonates	1,000	Hypothetical
101	60990101	Main Maracaibo Basin	995	Established
102	20040101	Ma'rib-Al Jawf/Shabwah/Masila	991	Established
103	72030301	Central Congo Delta and Carbonate Platform	983	Established
104	20710103	Southern Gulf of Suez	947	Frontier
105	20190202	Jurassic Reservoirs in South Gulf Suprasalt/Qatar Arch Structural	946	Established
106	38240201	Ardjuna	926	Established
107	60350101	Late Cretaceous-Tertiary Turbidites	909	Established
108	60450102	Foreland Basins	903	Frontier
109	39300101	Gippsland	888	Established
110	53050103	Tamabra-Like Debris-Flow-Breccia Limestone and Overlying Strata	885	Established
111	11540102	Karabil-Badkhyz (Southern Area)	835	Established
112	11120105	Iran Onshore/Nearshore	823	Hypothetical
113	20580501	Tanezzuft-Benoud Structural/Stratigraphic	823	Frontier
114	60450103	Foreland Central Chaco High	817	Hypothetical
115	20710202	Red Sea Salt Basin	804	Hypothetical
116	20710101	Gulf of Suez Block-Fault Fairway	800	Established
117	10160103	East and Southeast Margins Subsalt	788	Frontier
118	80430101	Eocene-Miocene Bombay Shelf	774	Established
119	60550101	Neuquen Extensional Structures	765	Established
120	38080101	Pematang/Sihapas Siliciclastics	763	Established
121	31270101	Tertiary Lacustrine	756	Established
122	31420401	Leshan-Longnusi Paleohigh	750	Frontier
123	11540101	Northern and Western Areas	719	Established

Rank	Assessment Unit Code	Assessment Unit Name	Largest Field (BCFG)	Assessment Unit Maturity
124	60900103	Eastern	718	Established
125	20230201	Platform Horst/Graben-Related Oil	700	Frontier
126	20540201	Tanezzuft-Melrhir Structural/Stratigraphic	686	Frontier
127	11540103	Murgab Depression Suprasalt	683	Established
128	60960102	Peripheral	651	Established
129	60550102	Neuquen Foothills Structure	634	Established
130	31270102	Pre-Tertiary Buried Hills	633	Established
131	11740101	Upper Jurassic-Cretaceous Sandstones	632	Established
132	38170103	Kutei Basin Fold and Thrust Belt	629	Established
133	40360103	Southern Permian Basin-Offshore	626	Established
134	60350103	Salt Dome Province Tertiary Sandstones	620	Hypothetical
135	37030201	South Malay Coaly	611	Established
136	11080103	Subsalt Jurassic	607	Frontier
137	53050102	Tamabra-Like Debris-Flow-Breccia Limestone Overlying Evaporites	583	Established
138	60590102	Andean Fold Belt Structures	580	Frontier
139	31420101	Southeastern Fold Belt	580	Established
140	37020201	East Natuna	578	Frontier
141	20580201	Tanezzuft-Ahnet Structural/Stratigraphic	557	Established
142	72030101	Gabon Subsalt	550	Established
143	80430102	Eocene-Miocene Cambay Deltaic	524	Established
144	11090303	Central Caspian Offshore	517	Hypothetical
145	60580101	San Jorge Extensional Structures	474	Established
146	60410201	Ene	469	Hypothetical
147	11090301	Offshore Prikumsk Zone	465	Hypothetical
148	72030401	Cuanza-Namibe	450	Frontier
149	31420102	Northwestern Depression/Foldbelt	450	Frontier
150	60960101	Central	449	Established
151	60810101	Cretaceous-Paleogene Basin	446	Established
152	52150101	Jeanne d'Arc	433	Established
153	40600201	Thermal Triassic	423	Frontier
154	40570101	Transylvanian Neogene Suprasalt Gas	417	Established
155	11080101	Tertiary Foredeep	413	Established
156	20190102	Cretaceous Reservoirs in South Gulf Suprasalt Structural	408	Established
157	20540101	Tanezzuft-Oued Mya Structural/Stratigraphic	405	Established
158	31440201	Structural Traps	393	Frontier
159	31420402	Lower Paleozoic of Southeastern Fold Belt	389	Hypothetical
160	10160106	Suprasalt	389	Established
161	10160102	North and West Margins Subsalt Barrier Reefs	382	Frontier
162	11500201	Jurassic-Tertiary Reservoirs	362	Frontier
163	60980103	Maturin Sub-Basin	350	Established
164	37030102	North Malay Lacustrine	321	Frontier
165	20580101	Tanezzuft-Timimoun Structural/Stratigraphic	309	Frontier
166	52430201	Leduc Gas	304	Established

Rank	Assessment Unit Code	Assessment Unit Name	Largest Field (BCFG)	Assessment Unit Maturity
167	20580601	Tanezzuft-Bechar/Abadla Structural/Stratigraphic	303	Hypothetical
168	10150201	Permian Reefs/Thrust Folds	297	Frontier
169	11090201	South Mangyshlak (Entire)	293	Established
170	52430301	Exshaw-Rundle Gas	288	Established
171	20480201	Jurassic-Cretaceous Structural/Stratigraphic	285	Established
172	20480101	Bou Dabbous-Tertiary Structural/Stratigraphic	283	Established
173	60350102	Cretaceous Carbonates	260	Frontier
174	20580301	Tanezzuft-Sbaa Structural/Stratigraphic	259	Frontier
175	31150201	Jurassic/Tertiary Fluvial and Lacustrine Sandstone	254	Frontier
176	60990102	Southwest Maracaibo Basin Fold Belt	237	Established
177	11740201	Pre-Upper Jurassic	233	Established
178	20580401	Tanezzuft-Mouydir Structural/Stratigraphic	230	Hypothetical
179	10150103	Sub-Domanik Devonian Clastics	220	Established
180	80480101	Central Burma Basin	217	Established
181	40480101	Greater Hungarian Plain Basins	217	Established
182	70130101	Coastal Plain and Offshore	208	Frontier
183	39100101	Barnett	190	Frontier
184	60210103	Late Cretaceous-Tertiary Nearshore Sandstones	188	Established
185	40470101	Foreland Basin	187	Established
186	38240101	Sunda/Asri	184	Established
187	40250102	Moray Firth	181	Established
188	31440101	Subtle Traps	174	Established
189	40610201	Romania Flysch Zone	171	Established
190	60830101	Neogene Pull-Apart Basin	170	Frontier
191	10150101	Supra-Domanik Carbonates/Clastics	169	Established
192	40480201	Zala-Drava-Sava Basins	168	Established
193	37020102	Balingian	166	Established
194	60550103	Dorsal de Neuquen Structure	165	Established
195	11090103	Foreland Slope and Foredeep	162	Frontier
196	40470201	Deformed Belt	152	Established
197	52430401	Combined Triassic/Jurassic Gas	143	Established
198	52430501	Mannville Gas	136	Established
199	10080101	Northwest Izhma-Pechora Depression	135	Hypothetical
200	52430102	Keg River Oil and Gas	132	Established
201	10150102	Lower Volga	116	Established
202	80260101	Kohat-Potwar Intrathrust Basin	108	Established
203	60900104	La Luna and Older	104	Frontier
204	52430101	Keg River Gas	99	Established
205	20160201	Natih-Fiqa Structural/Stratigraphic	98	Frontier
206	11090302	Onshore Stavropol-Prikumsk	98	Established
207	31440102	Anticlinal	96	Established
208	80340101	Sylhet-Kopili/Barail-Tipam Composite	91	Established
209	40610101	Moesian Platform	89	Established

Rank	Assessment Unit Code	Assessment Unit Name	Largest Field (BCFG)	Assessment Unit Maturity
210	53050101	El Abra-Like Reef and Backreef Limestone	87	Established
211	60580102	San Bernardo Fold Belt Structures	85	Established
212	40480601	Hungarian Paleogene Basin	75	Frontier
213	40470301	Paleozoic Reservoirs	74	Established
214	60830201	Cretaceous-Paleogene Santa Elena Block	60	Frontier
215	40480301	Danube Basin	59	Frontier
216	40610202	Romania Ploiesti Zone	53	Established
217	52430602	Second White Specks-Cardium Oil and Gas	48	Established
218	52430202	Leduc Oil and Gas	47	Established
219	40480401	Transcarpathian Basin	46	Frontier
220	52430402	Combined Triassic/Jurassic Oil and Gas	44	Established
221	60290101	Western Pre-Aptian Reservoirs	40	Established
222	52430601	Second White Specks-Cardium Gas	28	Established
223	52430302	Exshaw-Rundle Oil and Gas	24	Established
224	40360101	Southern Permian Basin-U.K. Onshore	12	Established
225	52440401	Lodgepole Oil	8	Established

**Table AR-7. Assessment units ranked by estimated number of undiscovered oil fields having more than 1,024 MMBO.**

[MMBO, million barrels of oil. Both percents and numbers of fields larger than 1,024 MMBO are for undiscovered fields only.]

Rank	Assessment Unit Code	Assessment Unit Name	Percent of Fields > 1,024 MMBOE	Number of Fields > 1,024 MMBOE
1	20300101	Cretaceous Reservoirs	9.79	15.31
2	52000101	Northeast Greenland Shelf Rift Systems	5.15	12.89
3	20210201	Horst-Block Anticlinal Oil	3.40	4.08
4	20300102	Tertiary Reservoirs	4.70	3.74
5	10160104	South Margin Subsalt	11.39	3.34
6	72030302	Central Congo Turbidites	2.89	3.01
7	11740101	Upper Jurassic-Cretaceous Sandstones	0.27	2.91
8	20210101	Central Arch Horst-Block Anticlinal Oil and Gas	2.83	2.61
9	20190302	Paleozoic Reservoirs	5.30	2.60
10	20210202	Salt-Involved Structural Oil	4.85	2.50
11	60210101	Late Cretaceous-Tertiary Turbidites	3.57	2.29
12	20190201	Jurassic Reservoirs in Northwest Desert Anticlines	4.70	2.03
13	60360101	Santos Shelf	1.45	1.89
14	71920102	Akata Reservoirs	0.69	1.74
15	60350101	Late Cretaceous-Tertiary Turbidites	1.76	1.32
16	60360102	Salt-Structured Deep-Water Sandstones	2.14	1.23
17	11120104	Central Offshore	2.07	0.86
18	53050106	Tamaulipas-Like Basinal Limestone and Tertiary Strata Overlying Evaporites	0.87	0.83
19	60350103	Salt Dome Province Tertiary Sandstones	3.82	0.78
20	60980101	East Venezuela Fold and Thrust Belt	1.41	0.76
21	53050102	Tamabra-Like Debris-Flow-Breccia Limestone Overlying Evaporites	0.56	0.71
22	71920101	Agbada Reservoirs	0.12	0.70
23	72030201	Gabon Suprasalt	0.56	0.60
24	11120103	Gograndag-Okarem Zone and Adjacent Shelf	1.10	0.55
25	60990101	Main Maracaibo Basin	0.51	0.52
26	20190101	Cretaceous Reservoirs in Northwest Desert Anticlines	1.21	0.52
27	60980202	Orinoco Delta and Offshore	0.72	0.44
28	40170101	Halten Terrace-Trondelag Platform	1.07	0.41
29	60600101	North Falklands Basin	1.00	0.40
30	11740302	South Kara Sea Offshore	1.70	0.38
31	20540301	Tanezzuft-Ghadames Structural/Stratigraphic	0.43	0.35
32	20190102	Cretaceous Reservoirs in South Gulf Suprasalt Structural	0.67	0.32
33	38170102	Kutei Basin Turbidites	0.86	0.31
34	60370101	Pelotas Platform and Basin	1.20	0.30
35	11120101	Apsheron-Pribalkhan Zone	0.86	0.27
36	60340102	Late Cretaceous-Tertiary Slide Blocks and Turbidites	0.90	0.25
37	60600201	South Falklands Basin	1.00	0.25
38	31540101	Tarim Basin Excluding Marginal Foldbelts	0.43	0.24



Rank	Assessment Unit Code	Assessment Unit Name	Percent of Fields > 1,024 MMBOE	Number of Fields > 1,024 MMBOE
39	61070101	Inner Forearc Deformation Belt	2.81	0.23
40	40250101	Viking Graben	0.13	0.21
41	60210102	Cretaceous Carbonates	0.87	0.18
42	60960102	Peripheral	0.19	0.17
43	20540201	Tanezzuft-Melhir Structural/Stratigraphic	0.43	0.15
44	20230101	Horst/Graben-Related Oil and Gas	0.32	0.13
45	10080102	Main Basin Platform	0.10	0.11
46	13220101	Onshore and Offshore Northeastern Shelf	0.25	0.11
47	60960101	Central	0.19	0.09
48	20190202	Jurassic Reservoirs in South Gulf Suprasalt/Qatar Arch Structural	0.14	0.09
49	39130101	Late Jurassic/Early Cretaceous-Mesozoic	0.60	0.08
50	12100101	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	0.32	0.08
51	72030301	Central Congo Delta and Carbonate Platform	0.03	0.07
52	12070101	Yenisey Foldbelt Riphean-Craton Margin Riphean	0.28	0.06
53	60290102	Late Cretaceous-Tertiary Deep-Water Sandstones	0.23	0.06
54	72030401	Cuanza-Namibe	0.18	0.06
55	53050107	Tamabra-Like Debris-Flow-Breccia Limestone North of Campeche	0.55	0.06
56	10160103	East and Southeast Margins Subsalt	0.13	0.05
57	60340103	Abrolhos Sub-Volcanic Structures	0.84	0.05
58	60450103	Foreland Central Chaco High	0.30	0.04
59	11500101	Mesozoic Sandstone Reservoirs	0.22	0.04
60	20160101	Fahud-Huqf Combined Structural	0.13	0.04
61	11120102	Lower Kura Depression and Adjacent Shelf	0.16	0.03
62	40680101	Subsalt	0.60	0.02
63	60450102	Foreland Basins	0.04	0.02
64	10160101	North and West Margins Subsalt Pinnacle Reefs	0.11	0.01
65	11090101	Foldbelt-Foothills	0.03	0.01

**Table AR-8. Assessment units ranked by estimated number of undiscovered gas fields having than 1,024 MMBOE of gas.**

[MMBOE, million barrels of oil equivalent. Both percents and numbers of fields larger than 1,024 MMBOE (6,144 BCFG) are for undiscovered fields only. One barrel of oil equivalent (BOE) equals 6,000 cubic feet of gas.]

Rank	Assessment Unit Code	Assessment Unit Name	Percent of Fields > 1,024 MMBOE	Number of Fields > 1,024 MMBOE
1	11740302	South Kara Sea Offshore	17.18	12.71
2	20190302	Paleozoic Reservoirs	5.30	9.31
3	20210101	Central Arch Horst-Block Anticlinal Oil and Gas	5.13	6.15
4	10500102	South Barents and Ludlov Saddle	4.58	5.93
5	20210102	North Gulf Salt Basin Structural Gas	6.52	5.07
6	11540104	Murgab Depression Subsalt	5.06	4.63
7	40170102	Mid-Norway Continental Margin	12.28	4.10
8	11740301	Northern West Siberian Onshore Gas	2.94	3.55
9	20300201	Northern Qatar Arch Extension	4.01	1.89
10	10500103	North Barents	2.42	1.48
11	40680101	Subsalt	3.40	1.29
12	11120104	Central Offshore	2.07	1.28
13	10160101	North and West Margins Subsalt Pinnacle Reefs	13.53	1.11
14	10160104	South Margin Subsalt	3.66	1.07
15	13220101	Onshore and Offshore Northeastern Shelf	1.04	0.90
16	20300102	Tertiary Reservoirs	1.52	0.81
17	52000101	Northeast Greenland Shelf Rift Systems	1.45	0.73
18	60360101	Santos Shelf	0.87	0.59
19	11120102	Lower Kura Depression and Adjacent Shelf	1.40	0.57
20	11120103	Gograndag-Okarem Zone and Adjacent Shelf	1.10	0.55
21	20190201	Jurassic Reservoirs in Northwest Desert Anticlines	2.55	0.52
22	38170101	Kutei Basin Deltaics	0.39	0.44
23	40170101	Halten Terrace-Trondelag Platform	1.11	0.43
24	20300101	Cretaceous Reservoirs	1.03	0.38
25	20230101	Horst/Graben-Related Oil and Gas	0.20	0.35
26	60340102	Late Cretaceous-Tertiary Slide Blocks and Turbidites	0.90	0.35
27	12100101	Baikal-Patom Foldbelt Riphean-Craton Margin Vendian	0.28	0.33
28	39130101	Late Jurassic/Early Cretaceous-Mesozoic	1.02	0.31
29	20710201	Red Sea Coastal Block Faults	0.15	0.29
30	39480101	Dingo-Mungaroo/Barrow	0.24	0.28
31	20190301	Khuff Carbonates in Salt Structures	0.50	0.26
32	38170102	Kutei Basin Turbidites	0.86	0.23
33	60370101	Pelotas Platform and Basin	0.87	0.21
34	61070101	Inner Forearc Deformation Belt	2.33	0.19
35	31540101	Tarim Basin Excluding Marginal Foldbelts	0.43	0.19
36	80420101	Greater Indus Foreland and Foldbelt	0.16	0.18
37	60980202	Orinoco Delta and Offshore	0.28	0.17
38	72030302	Central Congo Turbidites	0.68	0.15

Rank	Assessment Unit Code	Assessment Unit Name	Percent of Fields > 1,024 MMBOE	Number of Fields > 1,024 MMBOE
39	80480102	Irrawaddy-Andaman	0.14	0.14
40	61030101	Carupano Basin Gas	0.16	0.13
41	60210101	Late Cretaceous-Tertiary Turbidites	0.80	0.13
42	60340103	Abrolhos Sub-Volcanic Structures	0.84	0.12
43	10080103	Foredeep Basins	0.20	0.11
44	60980101	East Venezuela Fold and Thrust Belt	0.28	0.10
45	12070101	Yenisey Foldbelt Riphean-Craton Margin Riphean	0.28	0.10
46	80470302	Eastern Fold Belt	0.07	0.09
47	39480201	Locker-Mungaroo/Barrow	0.39	0.09
48	10500101	Kolguyev Terrace	0.18	0.09
49	71920101	Agbada Reservoirs	0.03	0.08
50	60220101	Amazon Delta and Submarine Fan	0.09	0.08
51	53050106	Tamaulipas-Like Basinal Limestone and Tertiary Strata Overlying Evaporites	0.30	0.07
52	20190103	Mesozoic/Tertiary Foredeep Fold and Thrust	0.20	0.07
53	72030201	Gabon Suprasalt	0.14	0.05
54	11500301	Upper Paleozoic Carbonates	0.18	0.05
55	39100301	Malita	0.21	0.05
56	60290102	Late Cretaceous-Tertiary Deep-Water Sandstones	0.23	0.04
57	60360102	Salt-Structured Deep-Water Sandstones	0.36	0.03
58	80420102	Indus Fan	0.18	0.02
59	20140101	Ghaba-Makarem Combined Structural	0.10	0.02
60	38220102	Mergui	0.08	0.02
61	10080102	Main Basin Platform	0.04	0.01
62	11120101	Apsheron-Pribalkhan Zone	0.10	0.01
63	31540102	Kuche (Northern) Foldbelt	0.05	0.01
64	73030101	Offshore	0.09	0.01
65	60600101	North Falklands Basin	0.03	0.01
66	60600201	South Falklands Basin	0.03	0.00
67	53050102	Tamabra-Like Debris-Flow-Breccia Limestone Overlying Evaporites	0.10	0.00

**Table AR-9. Discovered and undiscovered petroleum volumes in assessed portions of countries.**

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids (NGL). Values are not necessarily those for the entire country, but only for that part assessed in World Petroleum Assessment 2000. Cumulative, cumulative production. Known, cumulative production plus remaining reserves. Mean undiscovered, volumes estimated in World Petroleum Assessment 2000.]

Country Name	Cumulative Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Cumulative Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Cumulative NGL (MMBNGL)	Known NGL (MMBNGL)	Mean Undiscovered NGL (MMBNGL)
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**Members of OPEC, Organization of the Petroleum Exporting Countries**

Algeria	9,145	18,277	7,732	5,798	178,727	48,982	991	6,751	2,135
Indonesia	14,452	22,420	7,435	27,749	138,847	107,710	676	2,446	2,777
Iran	33,728	104,984	53,114	9,772	631,042	314,567	10	4,575	13,955
Iraq	22,414	100,066	45,099	5,411	74,806	120,006	0	195	6,225
Kuwait	25,840	80,100	3,840	2,796	61,478	5,915	0	812	191
Kuwait/Saudi Arabia Neutral	5,149	13,511	0	901	11,715	0	0	100	0
Libya	14,160	38,897	8,271	5,479	56,668	21,109	30	313	919
Nigeria	15,803	33,195	37,616	6,232	89,756	123,209	5	2,796	5,572
Qatar	5,007	9,203	3,617	2,949	371,890	41,100	14	10,700	1,821
Saudi Arabia	72,776	283,508	87,093	24,960	312,848	680,996	0	9,998	48,872
United Arab Emirates	15,741	72,931	7,695	7,994	147,676	44,524	294	1,991	2,365
Venezuela	46,439	76,044	19,664	19,369	154,448	101,240	1	649	4,579

**Members of OECD, Organisation for Economic Co-operation and Development**

Australia	3,708	5,556	4,975	5,373	91,370	109,418	272	1,968	5,833
Austria	0	0	0	107	222	70	1	3	1
Canada	15,693	20,564	2,774	66,991	118,293	24,519	1,930	3,347	932
Czech Republic	1	1	9	0	11	534	0	0	7
Denmark	495	1,285	95	1,987	9,603	777	82	241	40
France	0	0	311	0	0	20,827	0	0	927
Germany	1,614	1,895	156	22,571	33,891	12,993	5	18	71
Hungary	547	680	146	5,444	8,954	2,508	0	12	78
Italy	91	371	371	9,527	18,247	27,272	27	32	564
Netherlands	658	997	319	73,393	141,848	8,554	10	47	155
Norway	8,792	22,319	12,881	14,675	110,934	183,036	217	2,864	9,853
Spain	0	0	78	0	0	17,795	0	0	785
Turkey	559	752	749	5	453	749	0	1	19
United Kingdom	13,283	22,931	6,329	42,474	100,459	23,377	251	3,675	799

Country Name	Cumulative Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Cumulative Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Cumulative NGL (MMBNGL)	Known NGL (MMBNGL)	Mean Undiscovered NGL (MMBNGL)
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### Part OPEC, part OECD

Australia/Indonesia a Zone of	0	21	57	0	6,016	4,536	0	360	202
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### Other countries

Afghanistan	0	111	88	1,497	5,989	14,653	3	3	347
Angola	2,600	6,780	14,516	873	7,140	42,739	0	16	2,070
Argentina	4,289	6,628	3,218	15,606	46,051	36,695	219	677	867
Azerbaijan	9,210	13,622	6,306	5,360	17,348	67,449	186	278	2,943
Bahrain	897	1,050	899	4,725	12,500	16,516	9	75	711
Bangladesh	1	1	37	2,616	11,784	33,581	3	51	153
Barbados	8	11	1,152	16	22	8,968	0	0	436
Benin	19	30	70	0	60	705	0	1	20
Bolivia	232	279	1,203	4,399	10,460	25,013	130	345	1,016
Bosnia-	0	1	0	0	0	0	0	0	0
Brazil	2,337	11,163	46,746	705	9,878	194,408	5	58	8,127
Brunei	2,448	4,091	1,802	8,468	23,086	12,412	8	141	627
Bulgaria	38	46	9	153	195	28	1	47	1
Cambodia	0	0	124	0	175	1,762	0	6	32
Cameroon	794	1,241	1,533	0	4,193	5,581	0	10	263
Chile	308	355	337	6,278	9,615	6,405	60	80	143
China	23,939	48,458	12,115	9,966	43,967	85,786	1	277	4,461
Colombia	3,596	8,134	5,120	3,277	21,600	10,101	0	521	491
Congo	883	2,498	5,800	6	2,255	17,395	0	23	843
Congo (Kinshasa)	185	257	326	5	99	982	0	0	48
Côte d'Ivoire	51	134	603	46	1,702	6,043	0	35	169
Croatia	587	813	86	680	3,733	1,718	30	61	30
Cuba	65	297	494	20	96	592	0	0	35
Ecuador	2,034	5,448	970	487	1,621	552	0	0	22
Egypt	6,374	9,866	3,119	850	6,162	20,435	24	44	1,088
Equatorial Guinea	0	125	2,352	0	897	7,538	5	45	350
Eritrea	0	0	559	0	5	10,928	0	0	633
Falkland Islands (Islas Malvinas)	0	0	5,833	0	0	16,581	0	0	370
French Guiana	0	0	12	0	0	34	0	0	1
Gabon	2,097	4,165	8,184	265	1,660	24,307	0	16	1,160
Ghana	3	50	201	0	177	2,014	0	0	56
Greenland	0	0	47,148	0	0	80,709	0	0	4,170
Grenada	0	0	0	0	0	804	0	0	8

Country Name	Cumulative Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Cumulative Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Cumulative NGL (MMBNGL)	Known NGL (MMBNGL)	Mean Undiscovered NGL (MMBNGL)
Guinea-Bissau	0	0	38	0	0	205	0	0	10
Guyana	0	0	2,206	0	0	6,022	0	0	333
India	4,287	10,980	2,556	8,320	31,355	30,279	4	273	622
Joint Thailand/Malaysia	0	0	91	0	5,200	2,091	0	26	39
Jordan	0	0	0	47	226	2,422	0	0	194
Kazakhstan	3,683	18,327	21,094	1,271	70,388	72,255	231	5,696	3,586
Malaysia	3,176	7,179	3,042	4,757	87,963	50,174	62	651	1,329
Malta	0	0	36	0	0	205	0	0	2
Mauritania	0	0	49	0	0	265	0	0	13
Mexico	22,139	44,412	20,569	17,609	50,822	49,272	51	95	2,751
Moldova	0	2	0	0	0	0	0	0	0
Morocco	0	0	4	0	0	106	0	0	5
Myanmar	528	716	730	722	10,020	27,144	2	63	814
Namibia	0	0	89	0	6,000	1,534	0	0	70
Oman	3,552	7,279	3,451	1,342	33,229	33,746	7	716	1,761
Pakistan	314	505	258	15,908	37,231	28,606	15	103	1,016
Paraguay	0	0	902	0	11	4,506	0	0	221
Peru	2,047	2,655	3,316	1,951	3,025	6,337	44	0	316
Poland	59	125	206	1,946	5,232	2,822	0	0	61
Romania	4,319	6,264	1,073	24,334	38,227	5,416	22	36	128
Russia	96,448	225,955	77,382	265,367	1,675,579	1,168,735	1,038	8,996	37,960
Senegal	0	10	50	4	49	274	0	0	14
Serbia and Montenegro	163	297	49	215	1,150	271	0	5	9
Slovakia	0	0	10	0	363	256	0	0	6
Slovenia	5	6	0	35	55	10	1	1	0
South Africa	0	0	35	0	15	2,085	0	0	93
Sudan	0	0	771	0	855	15,491	0	123	914
Suriname	17	63	13,029	0	0	36,003	0	0	1,995
Syria	1,652	3,365	1,311	322	2,469	5,097	2	26	332
Thailand	0	0	95	185	4,400	4,674	3	53	65
The Gambia	0	0	6	0	0	34	0	0	2
Togo	0	3	30	0	0	302	0	0	8
Trinidad and Tobago	2,722	3,292	758	3,156	22,047	31,790	26	172	1,178
Tunisia	1,004	1,519	2,180	622	3,681	7,141	0	84	324
Turkmenistan	2,572	3,997	6,836	59,231	146,476	207,692	186	590	6,774
Ukraine	694	2,429	1,340	42,215	70,138	27,536	121	180	929
Uruguay	0	0	147	0	0	1,140	0	0	55
Uzbekistan	79	614	140	20,559	82,894	15,038	37	791	437
Vietnam	0	0	44	0	0	777	0	0	14

Country Name	Cumulative Oil (MMBO)	Known Oil (MMBO)	Mean Undiscovered Oil (MMBO)	Cumulative Gas (BCFG)	Known Gas (BCFG)	Mean Undiscovered Gas (BCFG)	Cumulative NGL (MMBNGL)	Known NGL (MMBNGL)	Mean Undiscovered NGL (MMBNGL)
Western Sahara	0	0	14	0	0	77	0	0	4
Yemen	649	1,933	3,307	0	17,120	21,901	31	312	1,265