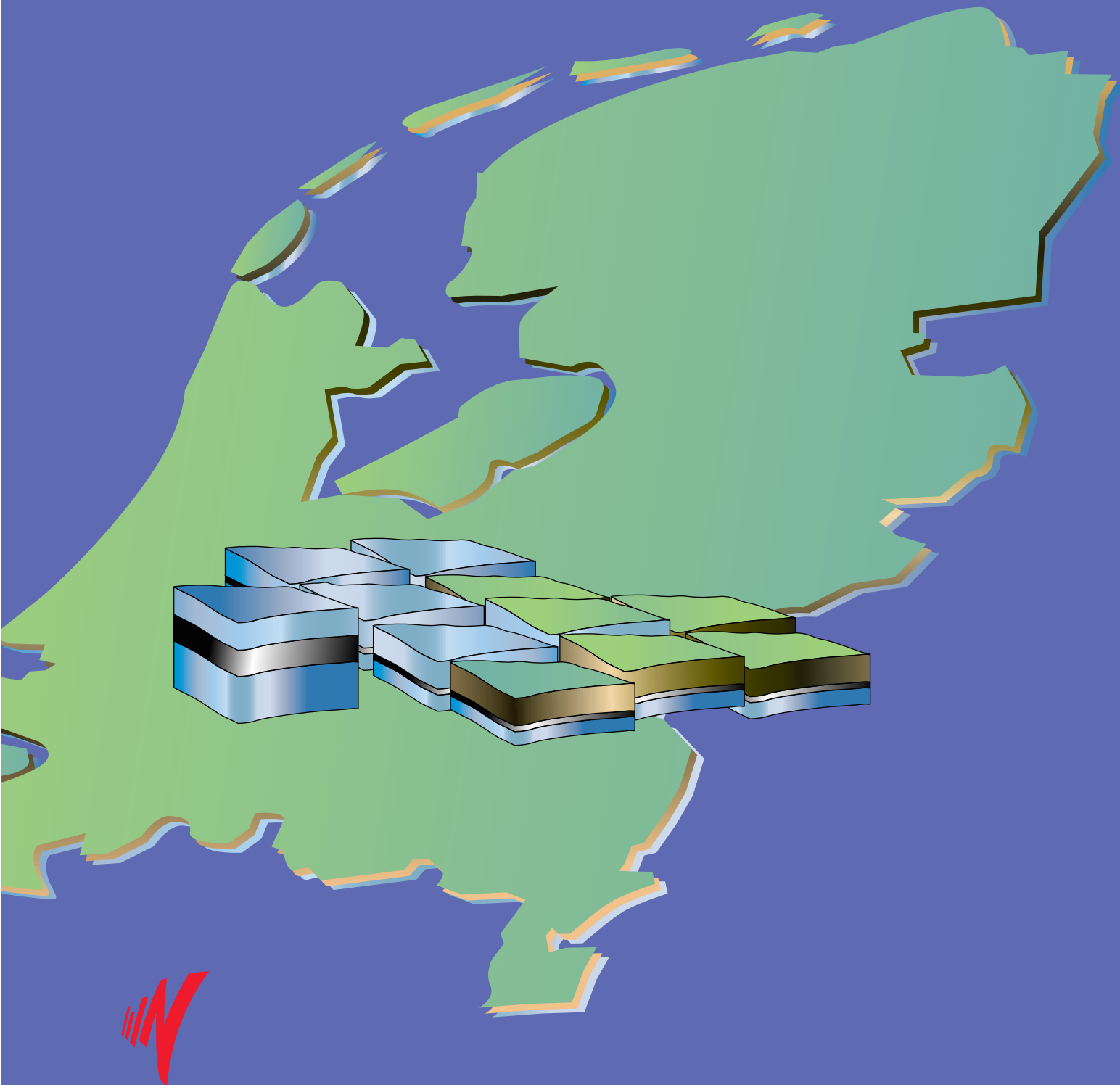


Oil and gas in the Netherlands

Exploration and production 2004 and prognoses 2005-2014



OIL AND GAS IN THE NETHERLANDS

Annual review 2004 and prognosis 2005- 2014

A review of oil and gas exploration and production activities during 2004 and a prognosis for the period 2005-2014.

This review has been compiled by the Netherlands Institute of Applied Geosciences TNO – *National Geological Survey*, at the request of the Energy Production Directorate of the Directorate General for Competition and Energy of the Dutch Ministry of Economic Affairs. Key data have been provided by the Ministry of Economic Affairs (Dutch acronym: EZ for Ministerie van Economische Zaken), the Netherlands Institute of Applied Geosciences TNO – *National Geological Survey* (Dutch acronym: TNO-NITG for Nederlands Instituut voor Toegepaste Geowetenschappen TNO) and the State Supervision of Mines (Dutch acronym: SodM for Staatstoezicht op de Mijnen).

This review comprises an overview of activities related to natural gas and of the existing and future underground storages for natural gas as referred to in article 125 of the Mining act.

This publication can be found on the following website: <http://www.nitg.tno.nl/oil&gas>

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The Hague, June 2005

Preface

The annual review 'Oil and Gas in the Netherlands' reports on the activities and results of the exploration and production of hydrocarbons in the Netherlands and the Dutch sector of the Continental Shelf during the year 2004. In addition to this a prognosis for the expected gas production is presented for the period 2005 – 2014.

In accordance with the provisions of article 125 of the Mining Act the annual review will be presented to both Chambers of the Dutch Parliament on behalf of the Minister of Economic Affairs.

The first section of the report now deals with *developments* in the exploration and production of hydrocarbons in the Netherlands and the Dutch sector of the Continental Shelf during the year 2004. This section first presents details of changes in natural gas and oil resources during 2004 and the way these changes affected the situation as at 1 January 2005.

Subsequently, a number of tables summarise developments during 2004, with respect to licences and exploration efforts (seismic surveys and wells drilled). This section ends with a summary of the volumes of natural gas, condensate and oil that were produced in 2004.

The second section of the annual review comprises a large number of annexes that report on the *current situation* as well as on historical developments during the past decades.

Finally, several maps outline the state of the affairs as at 1 January 2005.

The Hague, June 2005

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In this annual review, natural gas and oil volumes are stated in terms of 'standard' m³, usually abbreviated as Sm³. 'Standard' relates to the reference conditions: 15° C and 101.325 kPa.

In some cases the natural gas volumes are stated in terms of Groningen Gas Equivalent, which has a gross calorific value of 35.17 MJ/ m³ at 0° C and 101.325 kPa. In such cases this is explicitly stated in the text.

KEY DATA 2004

The summary below briefly outlines data that are detailed elsewhere in this annual review.

Natural gas and oil resources

The natural gas reserves as at 1 January 2005 are estimated at 1172 billion Sm³ for the Groningen accumulation, 133 billion Sm³ for the other onshore accumulations and 267 billion Sm³ for the Continental Shelf. Total reserves add up to 1572 billion Sm³.

Oil reserves add up to 34 million Sm³, 19 million Sm³ of which are located in the onshore territory and 15 million Sm³ on the Continental Shelf.

Licences

In 2004 two production licences for the onshore territory were applied for. It concerns future production from the formerly abandoned Akkrum field and from the stranded Papekop accumulation. In addition two storage licences were applied for. This concerns storage in salt caverns and in a depleted gas field. For the Continental Shelf, three exploration licences were applied for, one has been awarded and one lapsed. As for production licences, one production licence has been submitted, four have been awarded and one application has been withdrawn. One production licence has been subdivided. For details see chapters 3 and 4 and annexes 1 and 2.

Wells

A total of 21 wells have been drilled for oil and gas. That is thirteen less than in 2003. In 2004 exploration wells have only been drilled on the Continental shelf. From these eleven wells, seven struck gas, a technical success ratio of 64%. The remaining wells included three appraisal wells and seven production wells. For details see chapter 7 and annex 2.

Gas production

In 2004, total gross production from Dutch gas fields was 77.5 billion Sm³. of which 43 billion Sm³ was accounted for by the small fields. That is 13 % (8.8 billion Sm³) more than in 2003. Onshore gas fields accounted for 48.4 billion Sm³ which is 3.2 billion Sm³ more than in 2003, an increase of 7%. Production from the offshore gas fields increased by 5.6 billion Sm³ to 29.1 billion Sm³, an increase of 24%. For details see chapter 9.

Oil production

In 2004, a total of 2.46 million Sm³ of oil was produced in the Netherlands, which is 0.28 million Sm³, or 10% less than in 2003. The onshore accumulations produced 0.38 million Sm³, a decrease of 8% compared to 2003. Production from offshore oil fields decreased by 10% to 2.08 million Sm³. The average oil production over 2004 was approximately 6 750 Sm³ per day, which is equivalent to approximately 42 500 barrels per day. For details see chapter 9.

1. NATURAL GAS RESOURCE AND FUTURE GAS SUPPLY FROM WITHIN THE NETHERLANDS

INTRODUCTION

The natural gas resource represents a major economic asset for the Kingdom of the Netherlands. The present chapter first presents estimates of the natural gas resource as at 1 January 2005 and changes compared to 1 January 2004. A brief explanation of the method used for determining the natural gas resource is given below. Subsequently, this section on the supply of natural gas in the Netherlands presents the national gas production expected for the next ten years.

As a consequence of the provisions of the new Mining Act, the availability of field data has grown significantly. This resulted in a reclassification of the gas accumulations and their reserves. The presented figures may show a break in trend with the previous years. The approaches and reserve classifications used by individual operators may differ considerably. Therefore, the present annual report only presents a rough resource classification, related to the status of the individual accumulations.

RESOURCE

The natural gas resource is defined as the volume of natural gas that can be produced from the subsurface of the Netherlands. In this respect, we distinguish *discovered resources* and (as yet) *undiscovered resources*. The *discovered resources* are producible volumes of natural gas that are present in *proven accumulations*, i.e. proven gas fields. Many of these accumulations have been developed already (are producing) and as a result only part of the 'gas initially in place' remains. The remaining producible volumes of natural gas in the proven accumulations are defined as the *remaining reserves*.

Not all the gas that is present in the subsurface of the Netherlands has been found as yet. On the basis of geological information, TNO-NITG has prepared an estimate of the additional volume of gas that may statistically be present; this is called the *exploration potential*, also called the 'prospectivity'.

DISCOVERED RESOURCES

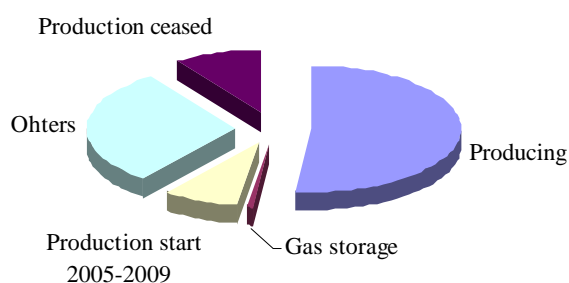
There are 399 proven natural gas accumulations in the Netherlands (table 1). At present, the majority of these accumulations is developed (209), i.e. producing (206) or operational as gas-storage facilities (3). Of all accumulations that have ever been developed, 39 have ceased production. Of the 151 accumulations that have not been developed as yet, 34 are expected to start producing within 5 years. Whether the remaining 117 accumulations will ever be developed is uncertain.

All accumulations are listed in annex 1, sorted by status and stating operator and licence. In accordance with the new Mining Act, production plans or storage plans have been submitted for all developed accumulations.

The map in Figure 1 shows the locations of the proven gas accumulations in the Netherlands as at 1 January 2005.

Table 1. Number of proven natural gas accumulations sorted by status as at 1 January 2005

Status of accumulations	Onshore Territory	Continental Shelf	Total
I. Developed			
a. producing	89	117	206
b. gas-storage facility	3	0	3
II. Undeveloped			
a. start of production 2005-2009	15	19	34
b. others	53	64	117
III. Production ceased	15	24	39
Total	175	224	399



The number of gas accumulations listed in 2004 (table 1) differs from 2003. Changes are due to 7 new gas discoveries (table 5) and the start of production from 5 gas accumulations (table 2). The remaining changes in the table are revisions derived from new data supplied to the ministry in accordance with the provisions of the new Mining Act

Table 2. Gas accumulations on stream since 2004.

Accumulations	Operator	Licence
D15-A-104	Gaz de France	D15
K12-S3	Gaz de France	K12
K07-FB	NAM	K07
K15-FM	NAM	K15
Q05-A	Wintershall	Q05c

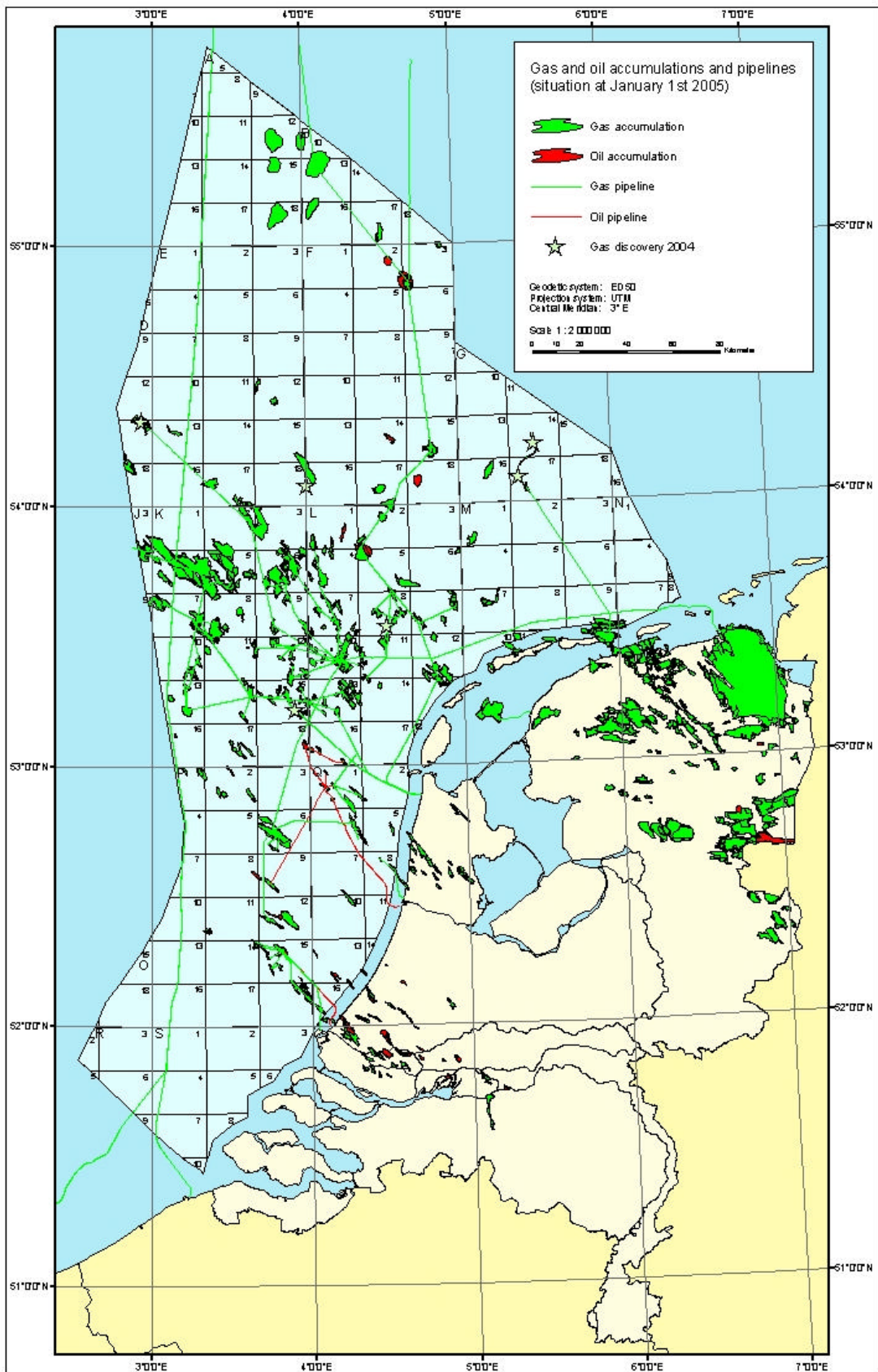


Figure 1. Outline map showing oil and gas accumulations in the Netherlands.

RESOURCE ESTIMATES

For the present annual review, the information used has been made available by the operators in accordance with the provisions of the new Mining Act. The approaches and reserve classifications used by individual operators may differ considerably. Therefore, the present annual report only presents a rough resource classification, related to the status of the individual accumulations.

PROVEN RESERVES AS AT 1 JANUARY 2005

Up to the annual review of 2002, a probabilistic approach was used to calculate proven reserves. In this definition, the probability that actual reserves would turn out to be higher than the figure stated used to be estimated at 90%. This type of probabilistic approach focused mainly on technical uncertainties.

The current reserve estimates for developed accumulations are based on the figures and information given by the operators in their production plans and annual reports and submitted in accordance with the new Mining Act. For the other discovered accumulations, of which reserves are not yet included in production plans or annual reports, only preliminary reserve estimates are given. This approach considers the remaining reserves in developed accumulations as the most certain part of the reserves. After all, most of the capital investment necessary to produce these volumes has already been made and there are fairly definite plans for the further incremental development of these accumulations. This does not apply to the predicted production from the Groningen field after 2040, because in order to realise this production, significant capital investment will be necessary.

Although the above mentioned approach used to calculate reserves differs from that used prior to 2003 (the year that the new Mining act came into force), the old and new figures can be correlated if one considers that the reserves calculated on the basis of the operators' production plans and annual reports in fact are equivalent to the 'remaining proven reserves' of the old approach.

The reserves calculated on the basis of the operators' production plans and annual reports as at 1 January 2005 total 1068 billion Sm³ for Groningen and 254 billion Sm³ for the other accumulations.

Table 3a. Gas resources in the Netherlands as at 1 January 2005 in billions of Sm³

Accumulations	Developed	Undeveloped		Total
			after 2040	
Groningen	1068	104	-	1172
Others Territory	76	19	38	133
Continental Shelf	178	-	89	267
Total	1322	123	127	1572

For the purpose of equating volumes of natural gas of different qualities in calculations, these volumes have been converted to Groningen Gas Equivalents (Geq) on the basis of calorific value.

Table 3b. Gas resources in the Netherlands as at 1 January 2005 in billions of m³Geq

Accumulations	Developed		Undeveloped	Total
		after 2040		
Groningen	1012	99	-	1110
Others Territory	81	20	40	141
Continental Shelf	189	-	94	283
Total	1282	119	134	1534

DEVELOPED ACCUMULATIONS

The figures for remaining reserves in developed accumulations are listed in two columns in the table above. The first column shows the total remaining reserves reported in the operators' production plans and annual reports. The second column lists under the heading 'after 2040' the reserves that are not expected to be available for production prior to 2040. This concerns long-term production from the Groningen field (104 billion m³) and the remaining reserves that were still present in the Norg, Grijpskerk and Alkmaar accumulations, prior to these fields being converted to underground gas storage facilities (altogether some 19 billion m³). This 'rest gas' will only be produced once the fields are no longer used as storage facilities. This is not expected to happen prior to 2040.

UNDEVELOPED ACCUMULATIONS

These figures concern proven accumulations, the development of which is deemed probable. This includes those accumulations that are expected to come on stream in the period 2005-2009, as well as some accumulations for which it is uncertain as yet when production will actually start (see listing of natural gas accumulations in annex 1). A part of this last group of accumulations (with status *Non developed/others* see table 1) may indeed have commercial potential, but future materialisation in terms of reserves greatly depends on advances in technology, infrastructure, costs and market prices. Furthermore, the reserve estimates do not take into account any limitations related to the accessibility of accumulations in connection with environmentally sensitive areas, e.g. the Dutch Wadden Sea area.

REVISIONS COMPARED TO 1 JANUARY 2004

The table below lists the revisions to the Dutch gas resource, resulting from

- new finds;
- re-evaluations of previously proven accumulations;
- production during 2004.

The net result is a reduction of the resource by 43 billion Sm³ compared to 1 January 2004. 78 billion Sm³ concerns production

Table 4. Revisions of expected gas resource compared to 1 January 2004, in billion Sm³

Area	New finds	Re-evaluations	Production	Total
Groningen field	0	0	-35	-35
Others Territory	0	-3	-14	-17
Continental Shelf	10	28	-29	9
Total	10	25	-78	-43

NEW FINDS

The table below lists the gas accumulations that were found during 2004. The locations of the new finds are indicated by asterisks in Figure 1. According to preliminary estimates, these new finds will add 10 billion Sm³ to the Dutch gas resource.

Table 5. Gas accumulations discovered in 2004

Name accumulation	Discovery well	Licence area	Operator
D15-FA-104	D15-FA-104 sidetrack 1	D15	Gaz de France
F16-P	F16-05	F16	Wintershall
G14-B	G14-03	G14	Gaz de France
G17-B	G17-05	G17d	Gaz de France
K08-FF	K08-15	K08	NAM
K15-M	K15-FK-103 sidetrack 2	K15	NAM
L08-D	L08-16 sidetrack 1	L08a	Wintershall

REVISIONS

Evaluation of both producing and non producing gas accumulations have resulted in an upward revision of 25 billion Sm³. In total this apparently is a large volume but it actually consists of minor revisions in a large number of fields.

UNDISCOVERED ACCUMULATIONS: EXPLORATION POTENTIAL

The exploration potential is the producible volume that may be assumed to be present in as yet undiscovered accumulations in the subsurface of the Netherlands on the basis of geological information. Economic factors are not taken into account in this estimate. In estimating the exploration potential for natural gas, TNO-NITG focuses on evaluating those geological units (so-called *plays*) in the Netherlands, in which geological conditions are favourable for gas accumulations and which have been sufficiently proven by drilling. Within these geological plays, only those prospective structures ('prospects') are considered that have been identified and assessed on the basis of existing data. Prospects of which the volume is very small – in case of success smaller than 0.5 billion Sm³ onshore or smaller than 2 billion Sm³ offshore – are not included in the potential estimate.

The exploration potential that may be present in hypothetical plays, or in not actually identified geological structures, is not taken into account because of its speculative nature. The estimate of the exploration potential includes prospects located in environmentally sensitive areas.

The estimate of the exploration potential is expressed as a numerical range, to stress the inherent highly uncertain nature:

Exploration potential for natural gas (in billion Sm³)

Area	Range
Territory	65 – 125
Continental Shelf	185 – 350

In previous years, the term ‘futures’ has been used in the sense that it represents the future addition to natural gas reserves as a result of exploration. The extent in which these volumes will indeed contribute to future gas production, however, also depends on a number of non-geological factors, such as: mining climate, infrastructure and accessibility of the prospects. The ‘exploration potential’ has, apart from the above mentioned cut offs on a volumetric basis, not been evaluated on an economic basis. Such a process would reduce the size of the portfolio. Depending on the chosen economic scenario this may well be a reduction up to 50%. The next section focuses on the extent to which this will add to Dutch gas production.

GAS SUPPLY FROM WITHIN THE NETHERLANDS

This section deals with the developments in the supply of gas from within the Netherlands that can reasonably be expected for the next 10 years, the period from 2005 to 2014. This section of the review is based on data submitted by operators and gas boards. The reference date for the present review is 1 January 2005. All volumes in the present section are quoted in billions of m³ Groningen Gas Equivalent (35.17 MJ/Nm³) abbreviated to m³Geq.

Supply for the period from 2005 to 2014

In accordance with the provisions of the Gas Act, the Minister of Economic Affairs has set an upper limit for the production of natural gas from within the Netherlands. For the period from 2003 to 2007, the average upper production limit is 76 billion m³Geq, while for the period from 2008 to 2012; it is set at an average of 70 billion m³Geq. The period covered in the present annual review extends to 2014; for the final 2 years (2013 and 2014) no upper production limit has been set (as yet).

The estimated supply from fields outside the Groningen accumulation has been prepared on the basis of the following data:

- the total summation of the production profiles of the producing accumulations. These profiles have been submitted by the operators as part of their production plans and annual reports.
- the summation of the production profiles of the accumulations from which production is expected to start within the period from 2005 to 2009. These reserves have been profiled according to a typical production development, equal volumes being produced each year.

the summation of the production profiles of the accumulations that have not been discovered as yet. These profiles are prepared by using a simulation model; taking into account the number of well that is expected to be drilled, the expected volumes of the prospects and the probability of success.

The maximum volume that can be expected to be supplied from Dutch accumulations during the next ten years has been calculated taking into account the upper production limit (table 7). When the upper production limit for 2013 and 2014 is assumed to be identical to that for 2012. The resulting supply is 724 billion m³Geq, consisting of 342 billion m³Geq from ‘non-Groningen’ accumulations supplemented by a maximum of 382 billion m³Geq from the Groningen accumulation. In this scenario, the Groningen will continue to act as a swing producer, balancing supply and demand.

Table 7. Gas supply from within the Netherlands for the period from 2004 – 2014, in billion m³Geq

Supply	2005 – 2009	2010 – 2014
non-Groningen accumulations		
Discovered - developed	145	84
Discovered - undeveloped	35	23
Still to be discovered	10	45
Subtotal non-Groningen	190	152
Groningen accumulation*	184	198
Total supply from within the Netherlands	374	350

* This is the maximum supply from the Groningen accumulation on the basis of the upper production limit and the role of the Groningen accumulation as a swing producer. For calculation purposes, the upper production limit for 2013 and 2014 has been assumed to be 70 billion m³Geq.

Figure 2 shows the historical production of natural gas in the Netherlands from 1990 and production prognosis for the non-Groningen accumulations and for Groningen. For 2013 and 2014, no production has been attributed to Groningen in this graph.

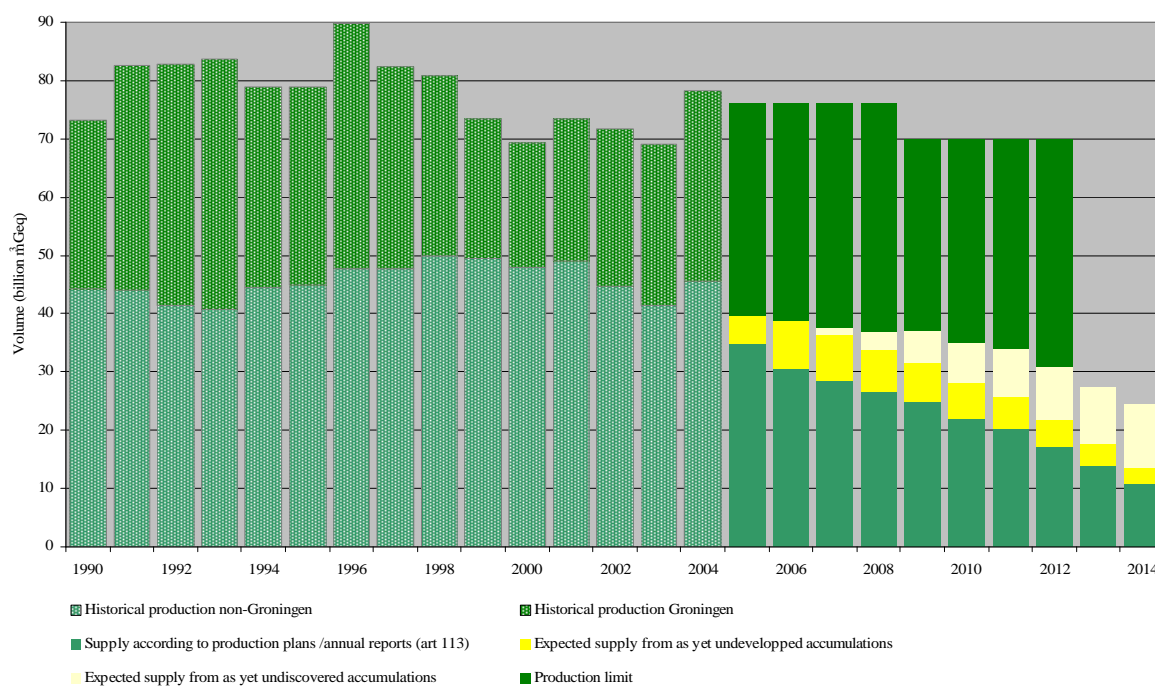


Figure 2. The historical production of natural gas in the Netherlands since 1990 and production prognosis for the non-Groningen accumulations and for Groningen. For 2013 and 2014, no production has been attributed to Groningen in this graph.

2. OIL RESOURCES

INTRODUCTION

In last years review incorrect figures were presented. Therefore the table below shows the resource figures for 2003 and 2004. The main revision in 2003 resulted from NAM'S intention to resume production from the Schoonebeek field. Petro-Canada expects to start production from the 'de Ruyter' accumulation in 2005.

Dutch oil reserves in million Sm³ as at 1 January 2005

Area	Reserves 2003	Reserves 2004
North-eastern Netherlands	16,0	16,0
West Netherlands	4,7	2,7
Continental Shelf	17,2	15,0
Total Netherlands	37,9	33,7

Revision of oil reserves compared to 1 January 2004, in million Sm³

Area	Change as a result of:			total
	new finds	(re) evaluation	(net) production	
Territory	-	-1,6	-0,4	-2,1
Continental Shelf	-	-0,1	-2,1	-2,2
Total		-1,7	-2,5	-4,3

Number of proven oil accumulations as at 1 January 2004

Oil accumulation	Territory	Continental Shelf
Producing	3	9
Closed in	1	-
Start of production between 2005 and 2009	-	1
Start of production unknown	-	-
Production ceased	7	1
Sub-economic	11	14
Total	22	25

3. LICENCES, Netherlands Territory as at 1 January 2005

Changes in the licences for the exploration, production and storage onshore, which took place during 2004 in the onshore Territory, are listed in the tables below. Annexes 2 and 3 in the second section of this annual review present a complete list of both licence applications and licences that are in force in the Territory as at 1 January 2005. Annexes 1 and 2 present maps showing the locations of exploration and production licences as well as any changes in licences that took place during 2004.

Total area	Under licence (km ²)	Under licence (%)
41 785 km ²	18 858 km ²	45.1 %

EXPLORATION LICENCES, Netherlands Territory, as at 1 January 2005

There have been no changes during 2004.

PRODUCTION LICENCES, Netherlands Territory, as at 1 January 2005

Applied for

Area	Publication	Date	Closing date
Akkrum	Publicatieblad EU, C 287	24-11-04	22-02-05
	Staatscourant 230	29-11-04	
Papekop	Publicatieblad EU, C 7	11-01-05	12-04-05
	Staatscourant 28	09-02-05	

STORAGE LICENCES

Applied for

Licence holder	Licence	In force as from
Wintershall AKZO	Waalwijk	26-04-04
	Adolf Nassau	07-10-04

4. LICENCES, Continental Shelf as at 1 January 2005

Changes in the licences for the exploration and production, which took place during 2004 on the Continental Shelf, are listed in the tables below. Annexes 5 up to and including 8 in the second section of this annual review present a complete list of both licence applications and licences that are in force on the Continental Shelf, as at 1 January 2005. Annexes 1 and 2 present maps showing the locations of exploration and production licences as well as any changes in licences that took place during 2004.

Total area	Under licence (km ²)	Under licence (%)
56 814 km ²	23 628 km ²	41.6 %

EXPLORATION LICENCES, Continental Shelf 2004

Applied for

Block (part)	Publication	Date	Closing date
B18b	Publicatieblad EU, C245	02-10-04	31-12-04
	Staatscourant 199	15-10-04	
K1b	Publicatieblad EU, C245	02-10-04	31-12-04
	Staatscourant 199	15-10-04	
F17a	Publicatieblad EU, C263	26-10-04	24-01-05
	Staatscourant 209	27-10-04	

Awarded

Licence holder	Block (part)	In force as from	km ²
Petro-Canada Netherlands B.V.	P11c	01-07-04	209
		Total	209

Lapsed

Licence holder	Block (part)	Date	km ²
Wintershall Noordzee B.V.	P2b	08-12-04	200
	K16	15-12-04	267
		Total	467

PRODUCTION LICENCES, Continental Shelf 2004

Applied for

Block	Publication	Date	Closing date
Q13	Publicatieblad EU, C 49	25-02-05	27-05-05
	Staatscourant 45	04-03-05	

Awarded

Licence holder	Block (part)	In force as from	km ²
Total E&P Nederland B.V.	K2c	21-01-04	47
Petro-Canada Netherlands B.V.	P11b	03-04-04	67
GDF Production Nederland B.V.	G14	02-11-04	403
GDF Production Nederland B.V.	G17a	02-11-04	216
Total			733

Subdivided

Licence holder	Block (part)	In force as from	km ²
Nederlandse Aardolie Maatschappij B.V.	K2a	20-01-04	27
GDF Production Nederland B.V.	K2b	20-01-04	165
Total			192

Withdrawn

Licence holder	Block (part)	In force as from	km ²
Wintershall Noordzee B.V.	P2a	29-12-05	216
	K13	29-12-05	324
Total			540

5. COMPANY CHANGES, NAME CHANGES AND LEGAL MERGERS in 2004

The tables below list changes which took place during 2004, as a result of mutations in consortiums of companies that participate in licences as well as name changes of participating companies or name changes as a result of legal mergers.

Company changes in exploration licences

Relinquishing company	Acquiring company	Block (part)	In force as from	Netherlands Government Gazette
1. Intrepid Energy North Sea Limited	Intrepid Energy Beta Limited	F9	11-05-04	90
		G7	11-05-04	90
2. Nederlandse Aardolie Maatschappij B.V.	Unocal Netherlands B.V. Dyas B.V.	A12a	25-09-04	185
		A18a	25-09-04	185
		B10a/A12b	25-09-04	185
		B13a	25-09-04	185
		B16a	25-09-04	185
3. --	Nederlandse Aardolie Maatschappij B.V.	Lemmer/ Marknesse	05-11-04	219

Company changes in production licences

Relinquishing company	Acquiring company	Block (part)	In force as from	Netherlands Government Gazette
1. Nederlandse Aardolie Maatschappij B.V.	GDF Production Nederland B.V.	G16a	16-03-04	54
		G16b	16-03-04	54
2. --	EWE Aktiengesellschaft	M7	10-04-04	71
3. GDF Production Nederland B.V.	--	L11b	10-08-04	152
Petro-Canada Netherlands B.V.	--			
4. Petro-Canada Netherlands B.V.	--	P6	10-11-04	220
		P9a/b	10-11-04	220
		P9c	10-11-04	220
		P14a	10-11-04	220
5. Total E&P Nederland B.V.	Vermilion Oil & Gas Netherlands B.V.	Gorredijk	19-05-04	101
		Leeuwarden	19-05-04	101
		Oosterend	19-05-04	101
		Slootdorp	19-05-04	101
		Steenwijk	19-05-04	101

Relinquishing company	Acquiring company	Block (part)	In force as from	Netherlands Government Gazette
6. --	Vermilion Oil & Gas Netherlands B.V.	Zuidwal	19-05-04	101
7. Total E&P Nederland B.V.	--	Zuidwal	01-12-04	232

Name changes

Previous company name	New company name
Eni Nederland B.V.	CH4 Nederland B.V.

Legal mergers

There were no legal mergers in 2004

6. SEISMIC ACQUISITION

All seismic acquisition surveys shot during 2004 are listed in the tables below. Historical summaries can be found in Annex 9.

NETHERLANDS TERRITORY

No 2D or 3D seismic surveys have been acquired onshore in 2004

CONTINENTAL SHELF

2D Seismic surveys

Location	Company	Length in km
G-blocks	Gaz de France	34
	Total	34

3D Seismic surveys

Location	Company	Area in km ²
K15-L13	NAM	790
	Total	790

7. OIL AND GAS WELLS, completed in 2004

The tables below list all wells drilled and ended during 2004, sorted by drilling location: either on the Territory or on the Continental Shelf en subsequently sorted by exploration, appraisal or production wells. The tables list the name, licence, operator and result for each well.

The categories exploration, appraisal and production refer to the initial petroleum geological target of the well. An exploration well which later on will be completed as a producer will remain an exploration well in this overview. The column showing the results gives the technical result. A well that strikes gas that may will be categorised as a gas well even if the gas will not be developed.

The last table presents an aggregated summary of all drilling operations during 2004. Historical summaries can be found in Annex 10 up to and including 12.

NETHERLANDS TERRITORY

Exploration wells

No appraisal wells have been drilled and ended in 2004

Appraisal wells

	Well name	Production licence	Operator	Result
1	Zuidwal-A-10 sidetrack 3	Zuidwal	Total	gas

Production wells

	Well name	Production licence	Operator	Result
1	Ameland-Westgat-109 sidetrack 1	Noord-Friesland	NAM	gas

CONTINENTAL SHELF

Exploration wells

	Well name	Licence (type*)		Operator	Result
1	D15-FA-104 sidetrack 1	D15	(pl)	Gaz de France	gas
2	F06-03	F06b	(el)	Petro-Canada	dry
3	F16-05	F16	(pl)	Wintershall	gas
4	G14-03	G14	(pl)	Gaz de France	gas
5	G17-05	G17d	(pl)	Gaz de France	gas
6	K08-15	K08	(pl)	NAM	gas
7	K15-FK-103 sidetrack 2	K15	(pl)	NAM	gas
8	K16-06 sidetrack 1	K16	(el)	Wintershall	dry
9	L06-06	L06a	(el)	Wintershall	dry
10	L08-16 sidetrack 1	L08a	(pl)	Wintershall	gas
11	M07-06	M07	(pl)	Wintershall	dry

*) el = exploration licence
pl = production licence

Appraisal wells

	Well name	Licence (type*)		Operator	Result
1	K08-12-sidetrack 2	K08	(pl)	NAM	gas
2	L05-C-02 sidetrack 1	L05b	(pl)	Wintershall	gas

*) el = exploration licence
pl = production licence

Production wells

	Well name	Production licence	Operator	Result
1	F15-A-05 sidetrack 3	F15a	Total	gas
2	G16-A-01 sidetrack 1	G16a	Gaz de France	gas
3	K01-A-04 sidetrack 2	K01a	Total	gas
4	K09AB-B-04	K09a	Gaz de France	gas
5	P15-E-02	P15a	BP	gas
6	Q05-A-01	Q05c	Wintershall	gas

DRILLING OPERATIONS in 2004

Summary of drilling operations during 2004

	Type of well	Result				Total
		Gas	Oil	Gas+Oil	Dry	
Netherlands Territory	Exploration	-	-	-	-	0
	Appraisal	1	-	-	-	1
	Production	1	-	-	-	1
	Sub total	2	0	0	0	2
Continental Shelf	Exploration	7	-	-	4	11
	Appraisal	2	-	-	-	2
	Production	6	-	-	-	6
	Sub total	15	0	0	4	19
Total		17	0	0	4	21

8. PLATFORMS AND PIPELINES

The tables below list all modifications to platforms and pipelines during 2004. For further information, please refer to the annual report of the State Supervision of Mines (Staatstoezicht op de Mijnen). Annexes 13 and 14 present a complete list of all platforms and pipelines.

New platforms, Continental Shelf installed in 2004

Platform	Operator	Number of legs	Gas/Oil*	Function
D12-A	WIN	4	Gas	production
Q 5-A1	WIN	0	Gas	sub sea completion

Removed platforms, Continental Shelf removed in 2004

Platform	Operator	Number of legs	Gas/Oil*	Function
K12-S1	GDF	0	Gas	sub sea completion

New Pipelines, Continental Shelf laid in 2004

Operator	From	To	Diameter (inch)	Length (km)	Carries
Total	K4-BE	K4-A	10	8	g
Wintershall	D12-A	D15-FA-1	10	4.9	g
Wintershall	D12-A	D15-FA-1	10	4.9	c
Wintershall	Q5-A1	Q8-B	8	13.5	g
Wintershall	Q5-A1	Q8-B	4	13.5	c

* = multiple pipeline

+ = laid separately

c = control cable

o = oil

g = gas

co = condensate

gl = glycol

m = methanol

ci = corrosion inhibitor

l = instrument air

(s) = side-tap

def.verl. = abandoned

9. PRODUCTION

The tables below list the aggregated production figures for natural gas, oil and condensate for 2004. Changes in comparison to 2003 are listed in absolute terms and in terms of percentage.

The volume that has been stored in or produced from underground gas storages is not included in the presented figures. This volume is already included in the production from its original source.

The tables on the following pages present the monthly production figures for each production licence. Annexes 15 up to and including 18 present historical gas and oil production figures over many years.

Total production of gas and oil in 2004 and changes compared to 2003

	2004		Changes compared to 2003	
Gas	$10^6 Nm^3$	$10^6 Sm^3$	$10^6 Sm^3$	
Netherlands Territory	45 880.1	48 422.3	3165.2	7%
Continental Shelf	27 592.8	29 121.7	5613.7	24%
Total	73 472.9	77 544.0	8778.9	13%
Oil		$10^3 Sm^3$	$10^3 Sm^3$	
Netherlands Territory		381.3	-34.9	-8%
Continental Shelf		2 081.7	-242.9	-10%
Total		2 463.0	-277.8	-10%
Average daily oil production (Sm^3)		6 750		
Condensate		$10^3 Sm^3$	$10^3 Sm^3$	
Netherlands Territory		404.7	-13.9	-3%
Continental Shelf		729.5	295.4	68%
Total production		1 134.2	281.5	33%

GAS PRODUCTION, Netherlands Territory in 2004 (in million Sm³)

The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area

Licence	Operator	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Beijerland	NAM	32.0	25.5	26.7	27.4	15.1	12.2	16.5	16.9	18.0	21.9	11.8	3.8	227.7
Bergen	BP	31.9	28.7	31.2	28.8	29.1	22.5	28.5	25.2	22.6	26.8	26.2	25.8	327.3
Botlek	NAM	15.1	16.0	17.5	17.7	30.6	22.0	26.6	20.3	12.0	8.4	18.2	39.7	244.1
Drenthe	NAM	155.6	143.5	149.4	121.9	101.8	64.8	55.6	30.3	47.4	97.5	121.7	133.9	1223.3
Gorredijk	Vermillion	20.5	21.0	23.2	17.2	16.9	18.8	18.5	18.1	12.9	12.5	15.1	15.5	210.0
Groningen	NAM	6030.2	4088.1	4082.3	1818.4	1460.1	618.6	1521.5	1718.6	2309.4	2645.5	4637.1	6637.1	37566.9
Hardenberg	NAM	1.0	1.2	1.7	1.5	1.7	1.6	1.2	1.8	1.8	1.8	1.9	2.0	19.2
Leeuwarden	Vermillion	19.0	17.6	20.2	15.2	21.2	19.9	20.1	19.3	16.2	17.7	17.6	17.5	221.4
Noord-Friesland	NAM	313.8	282.8	298.8	263.8	255.7	222.9	159.3	116.7	195.7	214.5	245.6	265.4	2834.9
Oosterend	Vermillion	0.9	0.8	1.1	0.6	1.0	1.0	1.1	1.0	0.8	0.9	1.1	1.0	11.0
Rijswijk	NAM	380.6	348.9	316.0	237.8	207.3	161.4	101.0	102.0	165.2	273.6	315.1	332.2	2941.1
Rossum-de Lutte	NAM	13.6	11.8	14.4	12.0	9.0	8.0	10.1	9.9	14.7	14.3	8.9	11.9	138.6
Schoonebeek	NAM	170.9	150.9	112.9	67.5	72.9	68.5	76.0	77.4	74.5	84.3	139.9	173.2	1268.9
Slootdorp	Vermillion	2.7	2.7	2.8	2.5	3.1	3.1	3.0	2.8	3.1	3.1	2.5	3.0	34.1
Steenwijk	Vermillion	8.2	5.8	4.7	3.5	2.0	3.4	3.0	1.5	2.5	2.3	1.7	1.7	40.3
Tietjerksteradeel	NAM	83.5	76.6	79.9	59.5	58.8	66.5	57.6	67.4	65.0	69.8	70.3	72.0	826.9
Tubbergen	NAM	8.0	7.4	6.4	5.3	5.5	6.1	6.7	6.1	5.4	7.4	5.8	7.1	76.9
Waalwijk	Wintershall	8.3	7.0	7.7	7.7	7.7	8.3	8.3	6.8	6.5	5.7	6.6	6.3	86.9
Zuidwal	Total	13.1	12.7	12.0	10.4	11.0	10.8	10.2	5.6	8.5	9.7	11.0	8.2	123.1
Total		7308.9	5249.2	5208.6	2718.6	2310.1	1340.2	2124.7	2247.5	2981.9	3517.5	5658.1	7757.2	48422.3

GAS PRODUCTION, Continental Shelf in 2004 (in million Sm³)

The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area

Licence	Operator	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
D15	Gaz de France	40.2	33.7	34.1	25.9	26.0	26.2	4.6	10.2	15.7	29.8	25.6	41.3	313,3
F2a	Petro-Canada	12.3	12.2	12.4	11.7	12.9	11.3	8.0	10.0	9.5	9.5	8.9	0.0	118,6
F3	NAM	68.2	64.4	71.2	71.9	66.1	73.5	20.4	66.7	62.4	64.8	64.1	64.5	758,1
F15a	Total	15.0	37.0	39.6	36.3	33.4	32.3	7.9	19.3	18.3	21.3	33.4	34.0	327,7
G17c & G17d	Gaz de France	59.5	55.7	59.1	57.3	58.8	18.2	11.9	31.9	57.3	50.9	51.4	53.1	565,0
J3b & J6	CH4	63.1	59.2	59.6	58.1	61.2	48.5	33.5	52.9	22.3	49.6	47.4	45.3	600,6
K1a	Total	64.6	67.2	72.1	66.8	68.9	26.1	45.5	64.2	28.0	51.9	64.7	84.0	703,9
K4a	Total	75.2	52.6	72.0	122.6	130.0	125.4	58.9	131.6	120.6	90.6	129.1	117.5	1226,1
K4B & K5a	Total	219.9	205.8	223.8	200.0	193.0	196.6	123.8	193.3	147.4	171.6	181.6	151.8	2208,6
K6 & L7	Total	132.9	133.9	142.4	106.0	98.0	122.4	124.4	97.5	117.1	123.2	126.1	133.3	1457,2
K7	NAM	62.0	90.4	100.0	90.6	13.9	68.0	60.0	1.5	33.4	78.3	66.4	65.6	730,0
K8 & K11	NAM	109.2	113.8	116.1	87.8	30.1	67.6	87.5	77.3	55.7	118.0	108.6	123.9	1095,5
K9a & K9b	Gaz de France	55.0	38.9	58.4	58.7	60.6	41.9	18.2	33.9	52.3	43.8	32.6	60.2	554,5
K9c	Gaz de France	9.4	8.9	8.9	8.9	8.9	8.1	7.0	4.4	8.0	8.2	7.4	7.5	95,5
K12	Gaz de France	173.4	180.3	191.9	124.7	165.2	184.8	161.7	172.7	173.2	174.6	168.4	172.8	2043,6
K14	NAM	44.3	42.7	44.0	37.1	40.7	29.4	33.6	35.1	28.8	37.7	32.2	36.4	441,9
K15	NAM	267.1	253.8	261.2	226.2	233.2	172.0	189.7	208.6	154.7	204.0	192.8	209.0	2572,2
K18a & K18b	Wintershall	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0,6
L 2	NAM	17.9	14.9	16.6	9.2	7.3	1.8	0.0	1.1	0.0	0.0	0.0	0.0	68,8
L 4a	Total	70.6	63.3	77.4	70.3	29.7	47.7	51.9	52.3	55.8	66.9	63.6	68.8	718,2
L5a	NAM	85.6	78.8	71.3	76.4	66.7	60.3	24.5	35.3	60.3	63.1	49.9	67.9	740,0
L5b	Wintershall	60.8	56.8	58.4	58.4	29.5	25.0	47.6	48.4	47.7	43.4	44.5	44.1	564,7
L8a	Wintershall	8.5	1.8	9.1	9.1	8.5	13.0	13.4	13.8	13.0	11.7	11.3	11.4	124,7
L8b	Wintershall	87.9	81.9	85.5	85.5	75.4	38.3	51.0	59.4	70.9	65.5	63.7	65.6	830,6
L 9a & L 9b	NAM	321.1	292.8	321.0	293.5	295.6	148.6	50.7	43.7	92.6	224.7	259.8	244.1	2588,0
L10 & L11a	Gaz de France	145.4	137.0	144.2	101.8	118.0	141.9	110.6	120.3	97.4	142.6	140.2	136.6	1536,0
L11b	Unocal	3.9	3.5	3.6	3.2	3.5	3.6	3.3	3.0	3.0	2.9	2.6	3.1	39,1

Licence	Operator	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
L12b & L15b	NAM	37.9	41.7	42.8	34.7	34.9	29.1	24.2	21.7	38.9	34.2	30.9	31.4	402.2
L13	NAM	48.1	44.0	48.4	47.6	44.9	17.0	25.1	21.4	30.0	29.0	25.9	22.1	403.4
L16a	Wintershall	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1
P6	Wintershall	44.1	43.4	38.1	41.5	42.0	42.0	33.4	34.9	28.8	36.9	37.7	37.5	460.1
P9c	Unocal	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	4.5
P12	Wintershall	7.4	7.1	7.4	6.9	6.9	5.0	2.2	3.6	2.8	7.6	8.0	8.8	73.6
P14a	Wintershall	12.3	11.3	12.0	10.6	10.9	9.3	9.6	9.5	9.4	8.9	8.5	9.2	121.5
P15a & P15b	BP	58.1	45.4	60.0	55.9	67.8	64.5	58.8	51.6	70.2	64.5	64.2	65.1	726.1
P15c	BP	2.3	1.9	2.4	2.3	2.0	1.9	1.9	2.2	1.9	0.7	2.2	2.8	24.5
P18a	BP	97.2	97.8	96.7	88.3	89.6	80.9	79.8	72.3	76.3	80.9	73.8	78.2	1011.7
Q1	Unocal	8.9	8.1	7.6	8.0	8.8	8.3	5.3	5.3	6.5	8.3	8.5	8.3	91.9
Q4	Wintershall	173.4	167.7	157.3	191.7	197.6	194.4	154.8	141.2	214.8	235.4	222.5	233.2	2283.7
Q5	Wintershall											8.8	19.1	27.8
Q8	Wintershall	2.0	1.8	2.1	2.1	1.3	2.0	2.1	1.8	1.8	1.9	1.0	0.0	20.0
Q16a	NAM	47.9	21.1	43.5	39.9	43.8	30.9	23.8	29.2	41.6	37.3	41.9	45.8	446.6
Total Continental Shelf		2813.1	2672.7	2872.9	2627.8	2485.6	2218.0	1771.0	1983.4	2068.3	2494.8	2510.9	2603.5	29121.7

GAS PRODUCTION, Netherlands Territory in 2004 (in million Nm³)

The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area

Licence	Operator	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Beijerland	NAM	30.3	24.2	25.3	25.9	14.3	11.6	15.6	16.0	17.1	20.7	11.2	3.6	215.7
Bergen	BP	30.2	27.2	29.6	27.3	27.6	21.4	27.0	23.9	21.4	25.4	24.9	24.5	310.1
Botlek	NAM	14.3	15.2	16.6	16.8	29.0	20.8	25.2	19.2	11.3	7.9	17.3	37.6	231.2
Drenthe	NAM	147.5	135.9	141.6	115.5	96.4	61.4	52.7	28.7	44.9	92.4	115.3	126.9	1159.1
Gorredijk	Vermillion	19.4	19.9	22.0	16.3	16.0	17.8	17.5	17.1	12.3	11.9	14.3	14.7	199.0
Groningen	NAM	5713.6	3873.5	3868.0	1722.9	1383.5	586.1	1441.6	1628.4	2188.1	2506.6	4393.7	6288.7	35594.6
Hardenberg	NAM	0.9	1.2	1.6	1.4	1.6	1.5	1.1	1.7	1.7	1.7	1.8	1.9	18.2
Leeuwarden	Vermillion	18.0	16.7	19.1	14.4	20.1	18.9	19.0	18.3	15.3	16.8	16.7	16.6	209.7
Noord-Friesland	NAM	297.3	268.0	283.1	249.9	242.3	211.2	151.0	110.6	185.4	203.2	232.7	251.5	2686.1
Oosterend	Vermillion	0.8	0.8	1.0	0.5	0.9	0.9	1.0	0.9	0.7	0.8	1.1	0.9	10.4
Rijswijk	NAM	360.6	330.6	299.4	225.3	196.4	152.9	95.7	96.6	156.5	259.2	298.5	314.8	2786.6
Rossum-de Lutte	NAM	12.9	11.2	13.6	11.4	8.5	7.6	9.5	9.3	13.9	13.5	8.4	11.3	131.3
Schoonebeek	NAM	161.9	143.0	106.9	64.0	69.1	64.9	72.0	73.3	70.6	79.8	132.6	164.1	1202.3
Slootdorp	Vermillion	2.5	2.5	2.6	2.3	2.9	2.9	2.8	2.7	2.9	2.9	2.4	2.8	32.3
Steenwijk	Vermillion	7.8	5.5	4.5	3.3	1.9	3.2	2.9	1.4	2.4	2.2	1.6	1.6	38.2
Tietjerksteradeel	NAM	79.1	72.6	75.7	56.4	55.7	63.0	54.6	63.9	61.6	66.1	66.6	68.2	783.5
Tubbergen	NAM	7.5	7.0	6.1	5.1	5.2	5.8	6.3	5.8	5.1	7.0	5.4	6.7	72.9
Waalwijk	Wintershall	7.9	6.6	7.3	7.3	7.3	7.9	7.9	6.5	6.1	5.4	6.3	6.0	82.3
Zuidwal	Total	12.4	12.1	11.4	9.8	10.4	10.2	9.7	5.3	8.0	9.2	10.4	7.8	116.6
Total		6925.1	4973.6	4935.1	2575.9	2188.9	1269.8	2013.2	2129.5	2825.3	3332.8	5361.0	7350.0	45880.1

GAS PRODUCTION, Continental Shelf in 2004 (in million Nm³)

The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area

Licence	Operator	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
D15	Gaz de France	38.1	31.9	32.3	24.5	24.6	24.8	4.3	9.7	14.8	28.3	24.3	39.1	296.8
F2a	Petro-Canada	11.7	11.5	11.7	11.1	12.2	10.7	7.6	9.4	9.0	9.0	8.5	0.0	112.4
F3	NAM	64.7	61.1	67.5	68.1	62.6	69.6	19.3	63.2	59.1	61.4	60.8	61.1	718.3
F15a	Total	14.2	35.0	37.6	34.4	31.6	30.6	7.5	18.2	17.3	20.2	31.6	32.2	310.5
G17c & G17d	Gaz de France	56.4	52.7	55.9	54.3	55.7	17.3	11.3	30.2	54.3	48.2	48.7	50.3	535.4
J3b & J6	CH4	59.8	56.1	56.5	55.0	58.0	46.0	31.8	50.1	21.1	47.0	44.9	42.9	569.1
K1a	Total	61.2	63.6	68.3	63.3	65.2	24.7	43.1	60.8	26.5	49.2	61.3	79.6	666.9
K4a	Total	71.3	49.9	68.2	116.2	123.1	118.8	55.8	124.7	114.3	85.9	122.4	111.3	1161.8
K4B & K5a	Total	208.3	195.0	212.1	189.5	182.9	186.2	117.3	183.1	139.6	162.6	172.1	143.8	2092.6
K6 & L7	Total	125.9	126.8	135.0	100.4	92.8	116.0	117.9	92.4	111.0	116.7	119.5	126.3	1380.7
K7	NAM	58.8	85.7	94.7	85.8	13.1	64.5	56.9	1.4	31.6	74.2	62.9	62.1	691.7
K8 & K11	NAM	103.4	107.9	110.0	83.2	28.5	64.0	82.9	73.2	52.8	111.8	102.9	117.4	1038.0
K9a & K9b	Gaz de France	52.1	36.9	55.3	55.6	57.4	39.7	17.3	32.1	49.5	41.5	30.9	57.0	525.4
K9c	Gaz de France	8.9	8.4	8.4	8.5	8.4	7.7	6.6	4.2	7.6	7.8	7.0	7.1	90.5
K12	Gaz de France	164.2	170.8	181.8	118.1	156.6	175.1	153.2	163.6	164.1	165.4	159.6	163.7	1936.3
K14	NAM	42.0	40.4	41.7	35.2	38.6	27.9	31.8	33.2	27.3	35.7	30.5	34.5	418.7
K15	NAM	253.1	240.5	247.5	214.3	220.9	163.0	179.8	197.7	146.5	193.3	182.7	198.0	2437.2
K18a & K18b	Wintershall	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
L 2	NAM	17.0	14.1	15.7	8.8	6.9	1.7	0.0	1.1	0.0	0.0	0.0	0.0	65.2
L 4a	Total	66.9	59.9	73.4	66.6	28.1	45.2	49.2	49.6	52.9	63.4	60.3	65.1	680.5
L5a	NAM	81.1	74.6	67.6	72.4	63.2	57.1	23.2	33.4	57.1	59.8	47.3	64.3	701.1
L5b	Wintershall	57.6	53.8	55.3	55.3	28.0	23.7	45.1	45.9	45.2	41.1	42.2	41.8	535.1
L8a	Wintershall	8.1	1.7	8.6	8.6	8.0	12.3	12.7	13.1	12.3	11.1	10.7	10.8	118.1
L8b	Wintershall	83.3	77.6	81.0	81.0	71.5	36.2	48.3	56.3	67.1	62.0	60.4	62.2	787.0
L 9a & L 9b	NAM	304.3	277.4	304.1	278.1	280.0	140.8	48.1	41.4	87.7	212.9	246.2	231.3	2452.2
L10 & L11a	Gaz de France	137.8	129.8	136.6	96.4	111.8	134.5	104.8	114.0	92.3	135.1	132.8	129.4	1455.3
L11b	Unocal	3.7	3.3	3.4	3.1	3.3	3.4	3.1	2.9	2.8	2.7	2.5	2.9	37.1

Licence	Operator	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
L12b & L15b	NAM	35.9	39.5	40.5	32.8	33.1	27.5	22.9	20.5	36.8	32.4	29.3	29.7	381.1
L13	NAM	45.5	41.7	45.9	45.1	42.6	16.1	23.8	20.3	28.4	27.5	24.5	20.9	382.2
L16a	Wintershall	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0
P6	Wintershall	41.8	41.1	36.1	39.3	39.8	39.8	31.6	33.1	27.3	35.0	35.7	35.5	436.0
P9c	Unocal	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.3	4.2
P12	Wintershall	7.0	6.7	7.0	6.5	6.5	4.7	2.1	3.4	2.6	7.2	7.6	8.3	69.7
P14a	Wintershall	11.6	10.7	11.4	10.1	10.3	8.8	9.1	9.0	8.9	8.5	8.1	8.7	115.1
P15a & P15b	BP	55.1	43.0	56.9	53.0	64.2	61.1	55.7	48.9	66.5	61.1	60.8	61.7	688.0
P15c	BP	2.2	1.8	2.3	2.2	1.9	1.8	1.8	2.1	1.8	0.6	2.1	2.7	23.2
P18a	BP	92.1	92.6	91.6	83.7	84.9	76.6	75.6	68.5	72.3	76.6	70.0	74.1	958.5
Q1	Unocal	8.5	7.7	7.2	7.6	8.4	7.8	5.1	5.0	6.1	7.8	8.1	7.9	87.1
Q4	Wintershall	164.2	158.9	149.0	181.6	187.2	184.2	146.6	133.8	203.5	223.0	210.8	220.9	2163.8
Q5	Wintershall	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	18.0	26.3
Q8	Wintershall	1.9	1.7	2.0	2.0	1.3	1.9	2.0	1.7	1.7	1.8	1.0	0.0	19.0
Q16a	NAM	45.4	20.0	41.2	37.8	41.5	29.3	22.5	27.7	39.4	35.4	39.7	43.4	423.2
Total Continental Shelf		2665.4	2532.4	2722.0	2489.8	2998.5	2101.5	1678.0	2745.6	2790.1	3248.4	2831.5	2466.8	27592.8

OIL PRODUCTION in 2004, (x 1000 ton)

The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area

Licence	Operator	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Rijswijk	NAM	28.1	29.0	31.4	31.3	30.5	29.7	29.0	27.9	28.1	29.2	16.4	24.9	335.4
F 2a	Petro Canada	137.8	136.2	138.1	133.5	141.3	120.4	75.6	106.7	101.1	103.2	96.9	95.7	1386.5
F 3	NAM	12.4	11.8	13.2	13.0	11.9	12.9	3.5	11.0	10.2	10.5	10.4	10.3	131.0
K18a & K18b	Wintershall	3.8	3.9	4.2	3.8	4.0	2.7	2.7	2.3	2.1	2.0	1.9	1.8	35.3
L16a	Wintershall	4.1	3.6	3.9	3.5	4.0	3.7	3.9	3.7	3.5	3.4	3.5	3.8	44.7
P9c	Unocal	5.8	5.3	5.6	5.5	5.5	5.3	4.9	4.9	4.7	5.0	4.9	4.9	62.3
Q1	Unocal	15.3	14.8	14.7	14.7	15.0	13.0	12.7	13.9	12.5	14.0	15.2	15.6	171.4
Total		207.3	204.7	211.1	205.3	212.2	187.7	132.3	170.5	162.1	167.4	149.1	156.9	2166.5

OIL PRODUCTION in 2004, (x 1000 Sm³)

The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area

Licence	Operator	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Rijswijk	NAM	32.0	33.0	35.7	35.5	34.7	33.8	32.9	31.8	31.9	33.2	18.7	28.3	381.3
F 2a	Petro Canada	156.6	154.8	157.0	151.8	160.6	136.9	85.9	121.3	114.9	117.3	110.2	108.8	1576.2
F 3	NAM	14.1	13.5	15.0	14.8	13.5	14.7	4.0	12.5	11.6	11.9	11.8	11.7	148.9
K18a & K18b	Wintershall	4.3	4.5	4.8	4.4	4.6	3.0	3.1	2.7	2.4	2.3	2.1	2.0	40.1
L16a	Wintershall	4.7	4.1	4.5	4.0	4.6	4.2	4.4	4.3	4.0	3.9	3.9	4.3	50.8
P9c	Unocal	6.6	6.1	6.4	6.2	6.2	6.0	5.6	5.6	5.3	5.7	5.5	5.5	70.8
Q1	Unocal	17.4	16.8	16.8	16.7	17.0	14.8	14.4	15.8	14.3	15.9	17.3	17.8	194.9
Total		235.7	232.7	240.0	233.4	241.2	213.4	150.4	193.9	184.3	190.3	169.5	178.4	2463.0

CONDENSATE* PRODUCTION in 2004, (x 1000 Sm³)

	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Netherlands Territory	52.3	46.8	44.6	32.4	30.9	26.5	17.2	18.3	23.2	31.3	38.9	42.3	404.7
Continental Shelf	63.2	58.1	74.0	67.6	61.0	56.0	39.1	39.2	48.3	72.9	67.2	82.8	729.5
Total	115.5	104.9	118.7	100.0	91.9	82.5	56.3	57.6	71.5	104.2	106.1	125.1	1134.2

* Condensate is a liquid that is recovered as a by-product during the production of natural gas. This liquid is also referred to as natural gasoline or natural gas liquids (NGL).

ANNEXES

NATURAL GAS ACCUMULATIONS ORDERED BY STATUS

I. DEVELOPPED ACCUMULATIONS			
a) Producing			
Accumulation*	Company	Licence name**	
Ameland East	NAM	Noord-Friesland	pl
Ameland Westgat	NAM	Noord-Friesland	pl
Anjum	NAM	Noord-Friesland	pl
Annerveen	NAM	Drenthe	pl
Appelscha	NAM	Drenthe	pl
Barendrecht	NAM	Rijswijk	pl
Barendrecht-Ziedewij	NAM	Rijswijk	pl
Bedum	NAM	Groningen	pl
Bergen	BP	Bergen	pl
Bergermeer	BP	Bergen	pl
Blija-Ferwerderadeel	NAM	Noord-Friesland	pl
Blija-Zuidoost	NAM	Noord-Friesland	pl
Blijham	NAM	Groningen	pl
Boerakker	NAM	Groningen	pl
Botlek	NAM	Botlek	pl
Bozum	Vermilion	Oosterend	pl
Castricum Zee	NAM	Middelie	pl
Coevorden	NAM	Schoonebeek	pl
Collendoornerveen	NAM	Schoonebeek	pl
Dalen	NAM	Drenthe	pl
De Blesse	Vermilion	Leeuwarden	pl
De Wijk	NAM	Schoonebeek	pl
Den Velde	NAM	Hardenberg	pl
Eleveld	NAM	Drenthe	pl
Emmen	NAM	Drenthe	pl
Emmen-Nieuw Amsterdam	NAM	Drenthe	pl
Engwierum	NAM	Noord-Friesland	pl
Ezumazijl	NAM	Noord-Friesland	pl
Feerwerd	NAM	Groningen	pl
Franeker	Vermilion	Leeuwarden	pl
Friesland	Vermilion	Oosterend	pl
Gaag	NAM	Rijswijk	pl
's Gravenzande	NAM	Rijswijk	pl
Groet	BP	Bergen	pl
Groningen	NAM	Groningen	pl
Grootegast	NAM	Groningen	pl
Hardenberg	NAM	Schoonebeek	pl
Harlingen-Chalk	Vermilion	Leeuwarden	pl

Harlingen-Vlieland	Vermilion	Leeuwarden	pl
Houwerzijl	NAM	Groningen	pl
Kollumerland	NAM	Tietjerksteradeel	pl
Kollum-Noord	NAM	Noord-Friesland	pl
Kommerzijl	NAM	Groningen	pl
Leens	NAM	Groningen	pl
Loon op Zand	Wintershall	Waalwijk	pl
Lula	NAM	Groningen	pl
Maasdijk	NAM	Rijswijk	pl
Marum	NAM	Groningen	pl
Metslawier	NAM	Noord-Friesland	pl
Middenmeer	Vermilion	Slootdorp	pl
Molenpolder	NAM	Groningen	pl
Monster	NAM	Rijswijk	pl
Munnekezijl	NAM	de Marne	pl
Nijensleek	NAM	Drenthe	pl
Noordwolde	Vermilion	Gorredijk	pl
Norg-zuid	NAM	Drenthe	pl
Oldelamer	Vermilion	Gorredijk	pl
Oldenzaal	NAM	Rossum-de Lutte	pl
Oosterhesselen	NAM	Drenthe	pl
Oostrum	NAM	Noord-Friesland	pl
Opende-Oost	NAM	Groningen	pl
Oud Beijerland Zuid	NAM	Botlek	pl
Oude Pekela	NAM	Groningen	pl
Pasop	NAM	Groningen	pl
Pernis	NAM	Rijswijk	pl
Pernis-West	NAM	Rijswijk	pl
Reedijk	NAM	Botlek	pl
Ried	Vermilion	Leeuwarden	pl
Rossum-Weerselo	NAM	Rossum-de Lutte	pl
Roswinkel	NAM	Drenthe	pl
Saaksum	NAM	Groningen	pl
Schermer	BP	Bergen	pl
Schoonebeek	NAM	Schoonebeek	pl
Sebaldeburen	NAM	Groningen	pl
Slootdorp	Vermilion	Slootdorp	pl
Sprang	Wintershall	Waalwijk	pl
Starnmeer	BP	Bergen	pl
Suawoude	NAM	Tietjerksteradeel	pl
Tietjerksteradeel	NAM	Tietjerksteradeel	pl
Tubbergen	NAM	Tubbergen	pl
Tubbergen-Mander	NAM	Tubbergen	pl
Ureterp	NAM	Tietjerksteradeel	pl
Vries	NAM	Drenthe	pl
Waalwijk-Noord	Wintershall	Waalwijk	pl

Wanneperveen	NAM	Schoonebeek	pl
Warffum	NAM	Groningen	pl
Weststellingwerf	Vermilion	Gorredijk	pl
Zuid Schermer	BP	Bergen	pl
Zuidwal	Vermilion	Zuidwal	pl
D15-A	Gaz de France	D15	pl
D15-A-104	Gaz de France	D15	pl
Hanze***	PCN	F2a	pl
F03-FB***	NAM	F03	pl
F15-A	Total	F15a	pl
F15-B	Total	F15a	pl
G17CD-A	Gaz de France	G17d	pl
Halfweg	Unocal	Q01	pl
J3-C Unit	Total	J03a	pl
K1-A Unit	Total	K01a	pl
K4A-B	Total	K04a	pl
K4A-D	Total	K04a	pl
K4-E (K4A)	Total	K04a	pl
K4-N	Total	K04a	pl
K04-A Unit	Total	K04a	pl
K5A-A	Total	K05a	pl
K5A-B	Total	K05a	pl
K5A-D	Total	K05a	pl
K05A-EN	Total	K05a	pl
K05A-ES	Total	K05a	pl
K05-C-Unit	Total	K05a	pl
K05-G	Total	K05a	pl
K06-A	Total	K06	pl
K06-C	Total	K06	pl
K06-D	Total	K06	pl
K06-DN	Total	K06	pl
K06-G	Total	K06	pl
K06-N	Total	K06	pl
K06-T	Total	K06	pl
K07-FA	NAM	K07	pl
K07-FB	NAM	K07	pl
K07-FC	NAM	K07	pl
K07-FD	NAM	K07	pl
K07-FE	NAM	K07	pl
K08-FA	NAM	K08	pl
K09AB-A	Gaz de France	K09b	pl
K09AB-B	Gaz de France	K09a	pl
K09C-A	Gaz de France	K09c	pl
K12-A	Gaz de France	K12	pl
K12-B	Gaz de France	K12	pl

K12-C	Gaz de France	K12	pl
K12-D	Gaz de France	K12	pl
K12-G	Gaz de France	K12	pl
K12-S2	Gaz de France	K12	pl
K12-S3	Gaz de France	K12	pl
K14-FA	NAM	K14	pl
K14-FB	NAM	K14	pl
K15-FA	NAM	K15	pl
K15-FB	NAM	K15	pl
K15-FC	NAM	K15	pl
K15-FG	NAM	K15	pl
K15-FK	NAM	K15	pl
K15-FL	NAM	K15	pl
K15-FM	NAM	K15	pl
L01-A	Total	L01a	pl
L02-FA	NAM	L02	pl
L04-A	Total	L04a	pl
L04-B	Total	K06	pl
L04-F	Total	L04a	pl
L04-I	Total	L04a	pl
L05-B	Wintershall	L05b	pl
L05-FA	NAM	L05a	pl
L07-B	Total	L07	pl
L07-C	Total	L07	pl
L07-G	Total	L07	pl
L07-H	Total	L07	pl
L07-HSE	Total	L07	pl
L07-N	Total	L07	pl
L08-A	Wintershall	L08a	pl
L08-A-West	Wintershall	L08b	pl
L08-G	Wintershall	L08a	pl
L08-H	Wintershall	L08a	pl
L08-P	Wintershall	L08b	pl
L08-P4	Wintershall	L05c	pl
L09-FC	NAM	L09b	pl
L09-FD	NAM	L09a	pl
L09-FF	NAM	L09a	pl
L09-FI	NAM	L09a	pl
L10-CDA	Gaz de France	L10	pl
L10-F	Gaz de France	L10	pl
L10-G	Gaz de France	L10	pl
L10-M	Gaz de France	L10	pl
L10-S2	Gaz de France	L10	pl
L10-S3	Gaz de France	L10	pl
L10-S4	Gaz de France	L11a	pl
L11-B	Unocal	L11b	pl

L12-FC	NAM	L12b	pl
L13-FC	NAM	L13	pl
L13-FD	NAM	L13	pl
L13-FE	NAM	L13	pl
L13-FG	NAM	L13	pl
L13-FH	NAM	L13	pl
L15-FA	NAM	L15b	pl
Logger***	Wintershall	L16a	pl
Markham	CH4	J06	pl
P06-D	Wintershall	P06	pl
P06-Main	Wintershall	P06	pl
P06-South	Wintershall	P06	pl
P12-SW	Wintershall	P12	pl
P14-A	Wintershall	P14a	pl
P15-10	BP	P15c	pl
P15-11	BP	P15a	pl
P15-12	BP	P15a	pl
P15-13	BP	P15a	pl
P15-14	BP	P15c	pl
P15-15	BP	P15a	pl
P15-9	BP	P18a	pl
P15-C	BP	P15a	pl
P15-E	BP	P15a	pl
P18-2	BP	P18a	pl
P18-4	BP	P18a	pl
Q01-B	Unocal	Q01	pl
Q04-A	Wintershall	Q04	pl
Q04-B	Wintershall	Q04	pl
Q08-A	Wintershall	Q08	pl
Q16-FA	NAM	Q16a	pl
b) Underground gas storage			
Alkmaar PGI	BP	Bergen	
Grijpskerk	NAM	Groningen	
Norg	NAM	Drenthe	
II. UNDEVELOPED ACCUMULATIONS			
a) start of production expected between 2005 – 2009			
Accumulation*	Company	Licence name**	Type of licence
Ameland-Noord	NAM	M09a	pl
Assen	NAM	Drenthe	pl
Een	NAM	Drenthe	pl
Hekelingen	NAM	Botlek	pl

Langebrug	NAM	Groningen	pl
Lauwersoog	NAM	Noord-Friesland	pl
Loon op Zand South	Wintershall	Waalwijk	pl
Marumerlage	NAM	Groningen	pl
Noorderdam	NAM	Rijswijk	pl
Rammelbeek	NAM	Twenthe	pl
Spijkenisse Oost	NAM	Botlek	pl
Spijkenisse West	NAM	Beijerland	pl
Surhuisterveen	NAM	Groningen	pl
Usquert	NAM	Groningen	pl
West Beemster	NAM	Middelie	pl
A12-FA	Unocal	A12a	pla
A18-FA	Unocal	A18a	pla
B13-FA	Unocal	B13a	pla
D12-A(West)	Wintershall	D12a	pl
D18-FA	Gaz de France	D18a	pla
De Ruijter***	PCN	P11b	pl
F16-E	Wintershall	F16	pl
G14-A	Gaz de France	G14	pl
G14-B	Gaz de France	G14	pl
G16-FA	Gaz de France	G16a	pl
G17a-S1	Gaz de France	G17a	pl
K02-FA	Gaz de France	K02b	pl
K17-FA	NAM	K17	pl
L02-FB	NAM	L02	pl
L04-G	Total	L04a	pl
L06-FA	ATP	L06d	pl
L13-FF	NAM	L13	pl
M09-FB	NAM	N07a	pl
N07-FA	NAM	Noord-Friesland	pl
Q05-A	Wintershall	Q05c	pl
b) Others			
Andel	NAM	Andel II	el
Beerta	NAM	Groningen	pl
Berkel	NAM	Rijswijk	pl
Blesdijke	Vermilion	Steenwijk	pl
Brakel	NAM	Andel II	el
Buma	NAM	Drenthe	pl
Burum	NAM	Tietjerksteradeel	pl
Collendoorn	NAM	Hardenberg	pl
Deurningen	NAM	Twenthe	pl
Donkerbroek	NAM	Donkerbroek	pl
Eesveen	Vermilion	Steenwijk	pl

Egmond Binnen	NAM	Middelie	pl
Exloo	NAM	Drenthe	pl
Gasselternijveen	NAM	Drenthe	pl
Geesbrug	NAM	Drenthe	pl
Gieterveen	NAM	Groningen	pl
Grolloo	NAM	Drenthe	pl
Haakswold	NAM	Schoonebeek	pl
Harkema	NAM	Groningen	pl
Heiloo	BP	Bergen	pl
Hollum Ameland	NAM	Noord-Friesland	pl
Kerkwijk	NAM	Andel II	el
Kijkduin zee	NAM	Rijswijk	pl
Kollum	NAM	Tietjerksteradeel	pl
Maasgeul	NAM	Botlek	pl
Midlaren	NAM	Groningen	pl
Moddergat	NAM	Noord-Friesland	pl
Molenaarsgraaf	NAM	Andel II	el
Nes	NAM	Noord-Friesland	pl
Nes noord	NAM	Noord-Friesland	pl
Nieuweschans	NAM	Groningen	pl
Nijega	Vermilion	Leeuwarden	pl
Noordwijk	NAM	Rijswijk	pl
Oosterwolde			opn
Oppenhuizen	NAM	Zuid-Friesland II	el
Papekop		Papekop	open
Rodewolt	NAM	Groningen	pl
Rustenburg	NAM	Middelie	pl
Schiermonnikoog Wad	NAM	Noord-Friesland	pl
Sonnega-Weststellingwerf	Vermilion	Steenwijk	pl
Stadskanaal	NAM	Groningen	pl
Ternaard	NAM	Noord-Friesland	pl
Terschelling noord		Terschelling	el
Terschelling west			open
Valthermond	NAM	Drenthe	pl
Vierhuizen	NAM	Noord-Friesland	pl
Vlagtwedde	NAM	Groningen	pl
Wassenaar-Diep	NAM	Rijswijk	pl
Werkendam Diep	NAM	Rijswijk	pl
Witten	NAM	Drenthe	pl
Zevenhuizen	NAM	Groningen	pl
Zevenhuizen West	NAM	Groningen	pl
A15-A	Wintershall	A15	el
B10-FA	Unocal	A12b	pla
B16-FA	Unocal	B16a	pla
B17-FA	Wintershall	B17a	pla

E12 Lelie		E12	open
E12 Tulp East		E12	open
E13 Epidoot		E13	open
E17-FA	Gaz de France	E17a	pla
F03-FA	NAM	F03	pl
F16-P	Wintershall	F16	pl
F17-FA		F17a	open
K4A-Z	Total	K04a	pl
K05-Fe	Total	K05a	pl
K05-FW	Total	K05a	pl
K05-U	Total	K05b	pl
K08-FB	NAM	K08	pl
K08-FD	NAM	K08	pl
K14-FC	NAM	K14	pl
K15-FD	NAM	K15	pl
K15-FE	NAM	K15	pl
K15-FF	NAM	K15	pl
K15-FH	NAM	K15	pl
K15-FI	NAM	K15	pl
K15-FJ	NAM	K15	pl
K16-5		K16	open
K17-FB	NAM	K17	pl
K18-FB	Wintershall	K18b	pl
L02-FC	NAM	L02	pl
L04-D	Total	L04a	pl
L07-D	Total	L07	pl
L07-F	Total	L07	pl
L07-FN	Total	L07	pl
L08-D	Wintershall	L08a	pl
L09-FA	NAM	L09a	pl
L09-FB	NAM	L09a	pl
L09-FE	NAM	L09b	pl
L09-FG	NAM	L09a	pl
L09-FH	NAM	L09a	pl
L09-FJ	NAM	L09a	pl
L10-19	Gaz de France	L10	pl
L10-6	Gaz de France	L10	pl
L11-1	Gaz de France	L11a	pl
L11-7	Gaz de France	L11a	pl
L12-FA	NAM	L12a	pl
L12-FB	NAM	L12a	pl
L12-FD	NAM	L12a	pl
L13-FA	NAM	L13	pl
L13-FI	NAM	L13	pl
L13-FJ	NAM	L13	pl
L13-FK	NAM	L13	pl

L14-6		L14b	open
L16-Alpha	Wintershall	L16a	pl
L16-Bravo	Wintershall	L16a	pl
L16-FA	Wintershall	L16a	pl
M01-FA	Wintershall	M01a	pla
M07-FA	Wintershall	M07	pl
M09-FA	NAM	Noord-Friesland	pl
M11-FA		M11	open
P01-FA		P01	open
P01-FB		P01	open
P02-1		P02b	open
P02-5		P02a	open
P02-E		P02a	open
Q07-FA		Q10	open
Q13-FC		Q13	open
III. PRODUCTION CEASED			
Accumulation*	Company	Licence name**	Type of licence
Akkrum 1		Akkrum	open
Akkrum 3		Akkrum	open
Akkrum 11		Akkrum	open
Akkrum 13		Akkrum	open
De Lier	NAM	Rijswijk	pl
De Lutte	NAM	Rossum-de Lutte	pl
Emshoern	NAM	Groningen	pl
Hoogenweg	NAM	Hardenberg	pl
Leeuwarden 101 Rotliegend	Vermilion	Leeuwarden	pl
Leidschendam	NAM	Rijswijk	pl
Middelburen	Vermilion	Leeuwarden	pl
Middelie	NAM	Middelie	pl
Roden	NAM	Drenthe	pl
Sleen	NAM	Drenthe	pl
Wimmenum-Egmond	NAM	Middelie	pl
K08-FC	NAM	K08	pl
K10-B	Wintershall	K10a	pl
K10-C	Wintershall	K10a	pl
K10-V	Wintershall	K10b	pl
K11-B	NAM	K11	pl
K11-C	NAM	K11	pl
K11-FA	NAM	K11	pl
K12-S1	Gaz de France	K12	pl
K12-E	Gaz de France	K12	pl
K13-A		K13	open

K13-B		K13	open
K13-CF		K13	open
K13-DE		K13	open
L07-A	Total	L07	pl
L10-K	Gaz de France	L10	pl
L10-S1	Gaz de France	L10	pl
L11-A	Gaz de France	L11a	pl
L11-Lark	Gaz de France	L11a	pl
L13-FB	NAM	L13	pl
L14-S		L14b	open
P02-NE		P02a	open
P02-SE		P02a	open
P12-C	Wintershall	P12	pl
Q08-B	Wintershall	Q08	pl

* *Name of the accumulation is conform the name used in the production licence application.*

** *Licence stands for the licence effective at the time the accumulation was discovered, however, an accumulation can straddle more than one licence (these are not indicated in this table).*

*** *Oilfield, the gas production from which makes up a significant part of the total gas production in the Netherlands.*

el = exploration licence, pla = production licence application, pl = production licence.

EXPLORATION LICENCES, Netherlands Territory as at 1 January 2005

Licence holder	Licence	km ²	In force as from	Netherlands Government Gazette	
1 Nederlandse Aardolie Maatschappij B.V. - Chevron U.S.A. Inc. - Dyas B.V. - Petro-Canada Netherlands B.V. - R.D.S. Netherlands International Inc. - Total E&P Nederland B.V.	Zuid-Friesland II	727	30-06-'79	202	**
2 Nederlandse Aardolie Maatschappij B.V.	IJsselmeer	875	02-07-'86	148	*
	Markerwaard	572	20-04-'89	87	*
	Andel II	301	21-03-'02	137	
	Schagen	576	04-11-'02	219	
3 Total E&P Nederland B.V. - Dyas B.V. - Lundin Netherlands B.V. Nederlandse Aardolie Maatschappij B.V.	Lemmer-Marknesse	633	09-03-'98	62	
	Total	3 684			

* Licence awarded, not yet in force because of legal procedure.

** Licence revision awarded, not yet in force because of legal procedure.

PRODUCTION LICENCES, Netherlands Territory as at 1 January 2005

Licence holder	Licence	km²	Awarded	Netherlands Government Gazette
1 BP Nederland Energie B.V. - Dyas B.V. - Petro-Canada Netherlands B.V.	Bergen	252	01-05-'69	94
2 Nederlandse Aardolie Maatschappij B.V.	Schoonebeek	930	03-05-'48	110
	Tubbergen	177	11-03-'53	80
	Rijswijk	2 090	03-01-'55	21
	Rossum-de Lutte	46	12-05-'61	116
	Groningen	2 970	30-05-'63	126
	Drenthe	2284	04-11-'68	234
	Tietjerksteradeel	411	17-02-'69	47
	Twenthe	276	27-01-'77	26
	Hardenberg	161	19-07-'90	149
	Botlek	235	03-07-'91	141
	Beijerland	140	11-12-'96	243
3 Nederlandse Aardolie Maatschappij B.V. - Mobil Producing Netherlands Inc.	Noord-Friesland	1 593	17-02-'69	47
	De Marne	7	05-09-'94	189
4 Nederlandse Aardolie Maatschappij B.V. - Wintershall Noordzee B.V. - Dyas B.V.	Middelie	946	01-05-'69	94
5 Nederlandse Aardolie Maatschappij B.V. - Bula Oil Netherlands B.V. - Lepco Oil & Gas Netherlands B.V.	Donkerbroek	70	20-03-'95	66
6 - Vermilion Oil & Gas Netherlands B.V.	Steenwijk	99	05-09-'94	177
7 - Vermilion Oil & Gas Netherlands B.V. - Lundin Netherlands B.V.	Leeuwarden	614	17-02-'69	46
	Slootdorp	162	01-05-'69	94
	Oosterend	92	23-03-'85	84
	Gorredijk	629	10-07-'89	145
	Zuidwal	225	28-08-'84	190
8 Wintershall Noordzee B.V. - Essent Energy Gas Storage B.V.	Waalwijk	765	17-07-'89	154
		15 174		

STORAGE LICENCES, Netherlands Territory as at 1 January 2005

Licence holder	Licence	km²	In force as from
Nederlandse Aardolie Maatschappij B.V.	Grijpskerk	27	01-04-03
	Norg	81	01-04-03
BP Nederland Energie B.V.	Alkmaar	16	01-04-03
	Total	124	

EXPLORATION LICENCES, Netherlands Continental Shelf as at 1 January 2005

Licence holder	Block	km ²	In force as from/ relinquishment	Date licence expires	Netherlands Government Gazette
1 Denerco Oil A/S - Intrepid Energy Beta Ltd	F9	400	15-03-03	26-04-09	54
	G7	122	15-03-03	26-04-09	54
2 GDF Production Nederland B.V. - ConocoPhillips (U.K.) Limited - DSM Energie B.V. - Wintershall Noordzee B.V.	D18a	58	08-06-79/85	08-06-89*	117/106
3 GDF Production Nederland B.V. - Lundin Netherlands B.V. - Total E&P Nederland B.V.	E17a,E17b	114	09-03-93/99	09-03-03*	54/39
4 Nederlandse Aardolie Maatschappij B.V. - Petro-Canada Netherlands B.V.	F6b	390		03-01-06	224
5 Petro-Canada Netherlands B.V.	P10	355	18-03-99	24-02-06*	64
	P11c	209	01-07-04	12-08-09	152
6 Total E&P Nederland B.V. - Lundin Netherlands B.V.	F12	401	01-11-01	30-10-08	219
7 Unocal Netherlands B.V. - DSM Energie B.V. - Dyas B.V.	A12a	195	20-12-78/84	20-12-88*	4/46
	A12b,B10a	125	12-01-90/96	12-01-00*	25/35
	A18a	229	11-12-72/82	11-12-87*	250/244
	B13a	206	12-01-90/96	12-01-00*	25/35
	B16a	67	11-05-87/01	11-05-97*	127/233
8 Wintershall Noordzee B.V.	M1a	213	09-04-91/97	09-04-01*	93/99
	M1b	193	19-07-01	19-07-06	143
	M4	408	26-06-01	26-06-06	134
9 Wintershall Noordzee B.V. - Petro-Canada Netherlands B.V.	L6a	332	22-08-03	03-10-10	162
10 Wintershall Noordzee B.V. - EWE Aktiengesellschaft	Q2a	332	04-09-01	26-09-06	183
11 Wintershall Noordzee B.V. - Dana Petroleum (E&P) Ltd - Marathon Exploratie Nederland B.V.	A15	393	23-02-99	24-02-07	44

Licence holder	Block	km²	In force as from/ relinquishment	Date licence expires	Netherlands Government Gazette
12 Wintershall Noordzee B.V. - Dana Petroleum (E&P) Ltd - DSM Energie B.V. - Petro-Canada Netherlands B.V.	B17a	80	02-06-87/93	02-07-97*	127/101
13 Wintershall Noordzee B.V. - CLAM Petroleum B.V. - GDF Production Nederland B.V.	F13b	399	01-01-03	31-12-09	223
	Total	5 221			

* licence holder has filed an application for a production licence

PRODUCTION LICENCES, Netherlands Continental Shelf as at 1 January 2005

Licence holder	Block	km²	In force as from	Date licence expires	Netherlands Government Gazette
1 ATP Oil & Gas (Netherlands) B.V.	L6d	16	07-03-03	19-4-13	48
2 BP Nederland Energie B.V.	P18a	105	30-04-92	30-04-32	96
3 BP Nederland Energie B.V. - Wintershall Noordzee B.V. - DSM Energie B.V. - Dyas B.V. - Oranje-Nassau Energie B.V. - Van Dyke Netherlands Inc. - Petro-Canada Netherlands B.V.	P15a & P15b	220	12-07-84	12-7-24	150
4 BP Nederland Energie B.V. - Wintershall Noordzee B.V. - DSM Energie B.V. - Dyas B.V. - Oranje-Nassau Energie B.V. - Petro-Canada Netherlands B.V.	P15c	202	07-05-92	07-05-32	114
5 BP Nederland Energie B.V. - Dyas B.V. - Petro-Canada Netherlands B.V.	P18c	6	02-06-92	02-06-32	113
6 CH4 Nederland B.V. - Total E&P Nederland B.V. - Dyas Holland B.V.	J3b & J6	125	06-11-92	06-11-32	231
7 GDF Production Nederland B.V.	G16a	224	06-01-92	06-01-32	13
	G16b	5	11-10-03	06-01-32	198
	G17a	275	02-11-04	14-12-19	216
	K2b	110	24-08-98	24-08-23	165
	K3a	83	24-08-98	24-08-23	165
8 GDF Production Nederland B.V. - Nederlandse Aardolie Maatschappij B.V. - DSM Energie B.V.	G14	403	02-11-04	14-12-19	216
9 GDF Production Nederland B.V. - ConocoPhillips (U.K.) Limited - Wintershall Noordzee B.V.	D15	247	06-09-96	06-09-21	180

Licence holder	Block	km²	In force as from	Date licence expires	Netherlands Government Gazette
10 GDF Production Nederland B.V. - Wintershall Noordzee B.V.	G17c,G17d	130	10-11-00	10-11-25	14
11 GDF Production Nederland B.V. - EWE Aktiengesellschaft - HPI Netherlands Ltd - Rosewood Exploration Ltd.	K9a & K9b	211	11-08-86	11-08-26	163
	K9c	199	18-12-87	18-12-27	21
12 GDF Production Nederland B.V. - EWE Aktiengesellschaft - HPI Netherlands Ltd - Rosewood Exploration Ltd. - GDF Participation Nederland B.V.	L10 & L11a	596	13-01-71	13-01-11	20
13 GDF Production Nederland B.V. - EWE Aktiengesellschaft - HPI Netherlands Ltd - Rosewood Exploration Ltd - Production North Sea Netherlands Ltd	K12	411	18-02-83	18-02-23	53
14 GDF Production Nederland B.V. - EWE Aktiengesellschaft - Rosewood Exploration Ltd.	L14a	21	19-11-90	19-11-30	240
15 GDF Production Nederland B.V. - HPI Netherlands Ltd - Rosewood Exploration Ltd.	N7b	174	10-03-94 (23-12-03)	10-03-34	88 252
16 Nederlandse Aardolie Maatschappij B.V.	B18a	40	10-10-85	10-10-25	224
	F17c	18	04-12-96	04-12-11	240
	K2a	27	24-08-98	24-08-23	165
	K7	408	08-07-81	08-07-21	140
	K14	413	16-01-75	16-01-15	18
	K15	413	14-10-77	14-10-17	214
	K17	414	19-01-89	19-01-29	42
	L2	406	15-03-91	15-03-31	75
	L4c	12	07-01-94	07-01-34	15
	L5a	163	15-03-91	15-03-31	77
	L9a	209	09-05-95	09-05-35	113
	L9b	201	09-05-95	09-05-35	114
	L15c	4	07-09-90	07-09-30	199
	N7a	141	10-03-94 (23-12-03)	10-03-34	88/252

Licence holder	Block	km²	In force as from	Date licence expires	Netherlands Government Gazette
17 Nederlandse Aardolie Maatschappij B.V. - DSM Energie B.V.	F3	397	09-09-82	09-09-22	215
18 Nederlandse Aardolie Maatschappij B.V. - Clam Petroleum B.V.	K8 & K11 L12a	821 344	26-10-77 14-03-90	26-10-17 14-03-30	223 63
- Wintershall Noordzee B.V.	L13	413	26-10-77	26-10-17	223
- Oranje-Nassau Energie B.V.					
19 Nederlandse Aardolie Maatschappij B.V. - Clam Petroleum B.V. - Wintershall Noordzee B.V.	L12b & L15b	184	12-03-90	12-03-30	63/199
20 Nederlandse Aardolie Maatschappij B.V. - Mobil Producing Netherlands Inc.	M9a	213	10-04-90	10-04-30	81
21 Nederlandse Aardolie Maatschappij B.V. - Lundin Netherlands B.V. - Total E & P Nederland B.V.	Q16a	85	29-12-92	29-12-32	6
21 Petro-Canada Netherlands B.V.	P11b	210	03-04-04	15-05-19	67
22 Petro-Canada Netherlands B.V. - DSM Energie B.V. - Dyas B.V. - EDC (Europe) Ltd. - Oranje-Nassau Energie B.V.	F2a	307	24-08-82	24-08-22	215
23 Total E&P Nederland B.V.	K4a L1d	307 7	29-12-93 13-11-96	29-12-33 13-11-16	5 225
24 Total E&P Nederland B.V. - Lundin Netherlands B.V. - DSM Energie B.V.	F6a	8	09-09-82	09-09-22	215
25 Total E&P Nederland B.V. - Lundin Netherlands B.V. - Dyas Nederland B.V. - Oranje-Nassau Energie B.V.	F15a F15d	234 4	06-05-91 15-06-92	06-05-31 15-06-32	95 148
26 Total E&P Nederland B.V. - Nederlandse Aardolie Maatschappij B.V.	J3a K1a	72 83	12-01-96 10-02-97	12-01-36 10-02-22	22 46

Licence holder	Block	km ²	In force as from	Date licence expires	Netherlands Government Gazette			
27 Total E&P Nederland B.V. - Lundin Netherlands B.V.	K3b	7	30-01-01	30-01-21	29			
	K3d	26	01-04-99	01-04-24	76			
	K6 & L7	818	20-06-75	20-06-15	126			
	L1e	12	13-11-96	13-11-11	226			
	L4a	313	30-12-81	30-12-21	82('82)			
	L1f	17	01-01-03	16-01-33	235			
28 Total E&P Nederland B.V. - Lundin Netherlands B.V. - Dyas B.V. - Goal Petroleum (Netherlands) B.V.	K4b & K5a	305	01-06-93	01-06-33	114			
	29 Total E&P Nederland B.V. - Goal Petroleum (Netherlands) B.V. - Rosewood Exploration Ltd.	K5b	204	07-11-96	07-11-21	225		
		K2c	47	21-01-04	07-11-21	16		
		30 Total E&P Nederland B.V. - Van Dyke Netherlands Inc.	L1a	30	12-09-96	12-09-16	187	
31 Unocal Netherlands B.V. - DSM Energie B.V.	L11b		47	15-06-84	15-06-24	130		
	32 Unocal Netherlands B.V. - Wintershall Noordzee B.V. - DSM Energie B.V. - Dyas B.V. - Dyas Holland B.V. - Aceiro Netherlands B.V.	P9a & P9b	126	16-08-93	16-08-33	160		
33 Unocal Netherlands B.V. - Wintershall Noordzee B.V. - DSM Energie B.V. - Dyas B.V. - Dyas Holland B.V.		P9c	267	16-08-93	16-08-33	160		
		34 Unocal Netherlands B.V. - DSM Energie B.V. - Wintershall Noordzee B.V.	Q1	416	11-07-80	11-07-20	138	
			35 Unocal Netherlands B.V. - DSM Energie B.V. - Dyas B.V.	Q2c	32	14-07-94	14-07-34	150

Licence holder	Block	km²	In force as from	Date licence expires	Netherlands Government Gazette
36 Wintershall Noordzee B.V.	P11a	2	23-06-92	23-06-32	148
37 Wintershall Noordzee B.V. - GDF Participation Nederland B.V.	D12a	214	06-09-96	06-09-21	180
38 Wintershall Noordzee B.V. - Clam Petroleum B.V.	E15a	39	04-10-02	24-09-32	199
- Dana Petroleum (E & P) Limited	E18a	212	04-10-02	24-09-32	199
- GDF Production Nederland B.V.	F13a	4	04-10-02	24-09-32	199
- Goal Petroleum (Netherlands) B.V.					
39 Wintershall Noordzee B.V. - GDF Production Nederland B.V.	F16	405	04-10-02	24-09-32	199
40 Wintershall Noordzee B.V. - Petro-Canada Netherlands B.V.	K10a	195	26-01-83	26-01-23	28
	K10b,K10c	94	22-04-93	22-04-,33	84
	P14a	317	23-06-92	23-06-32	148
41 Wintershall Noordzee B.V. - Dyas B.V.	K18a & K18b	191	09-05-83	09-05-23	103
- Nederlandse Aardolie Maatschappij B.V.	L16a	238	12-06-84	12-06-24	130
- Petro-Canada Netherlands B.V.					
42 Wintershall Noordzee B.V. - Petro-Canada Netherlands B.V.	L5c	8	03-12-96	03-12-16	19
	L8b	181	17-05-93	17-05-33	105
	L5b	237	28-06-03	12-08-38	134
	L6b	60	01-07-03	13-08-38	134
43 Wintershall Noordzee B.V. - EWE Aktiengesellschaft	L8a	213	18-08-88	18-08-28	171
44 Wintershall Noordzee B.V. - DSM Energie B.V.	M7	410	22-03-01	22-03-21	66
- Nederlandse Aardolie Maatschappij B.V.					
- EWE Aktiengesellschaft					
45 Wintershall Noordzee B.V. - Dyas Holland B.V.	P6	417	14-04-82	14-04-22	83
- Dyas B.V.					
46 Wintershall Noordzee B.V. - Dyas B.V.	P12	421	08-03-90	08-03-30	78

Licence holder	Block	km²	In force as from	Date licence expires	Netherlands Government Gazette
- Dyas Holland B.V.					
47 Wintershall Noordzee B.V. - Clam Petroleum B.V. - Dyas B.V.	Q4	417	02-12-99	02-12-19	2
48 Wintershall Noordzee B.V. - Clam Petroleum B.V. - Dyas B.V.	Q5c, Q5d & Q5e	146	15-02-01	15-02-21	46
49 Wintershall Noordzee B.V. - Dyas B.V.	Q8	247	15-09-86	15-09-26	187
	Total	17 656			

**PRODUCTION LICENCE APPLICATIONS, Netherlands Continental Shelf as at
1 January 2005**

Licence applicant	Block/ part of block	Date of publication	Netherlands Government Gazette
Unocal Netherlands B.V.	A18a	06-01-'88	3
Unocal Netherlands B.V.	part of A18	06-01-'88	3
	part of A18 (revision)	03-02-'00	24
Unocal Netherlands B.V.	A12a	30-12-'88	254
Unocal Netherlands B.V.	part of A12	30-12-'88	254
Unocal Netherlands B.V.	B16a	08-06-'93	105
	part of B16 (revision)	30-11-'01	233
Wintershall cs	B17a	09-06-'97	106
GDF Production Ned. cs	D18a	24-07-'97	139
Unocal Netherlands B.V.	B13a	01-02-'00	22
Unocal Netherlands B.V.	A12b, B10a	01-02-'00	22
Wintershall cs	M1a	11-05-'01	91
NAM cs	part of E16	12-11-'01	219
GDF cs	part of E17	12-11-'01	219
Petro-Canada Netherlands B.V.	part of P10		
Applicant not yet published	Q13		

LIST OF BLOCKS, Netherlands Continental Shelf as at 1 January 2005

Block/ Part of block	Area not in licence (km ²)	Area in licence (km ²)	Type*	Licence holder
A 4	< 0,5			
A 5	91			
A 7	47			
A 8	382			
A 9	141			
A 10	129			
A 11	392			
A 12a		195		Unocal cs
A 12b		31		Unocal cs
A 12c	164			
A 13	211			
A 14	393			
A 15		393		Wintershall cs
A 16	294			
A 17	395			
A 18a		229		Unocal cs
A 18b	166			
B 10a		94		Unocal cs
B 10b	84			
B 13a		206		Unocal cs
B 13b	187			
B 14	199			
B 16a		67		Unocal cs
B 16b	328			
B 17a		80		Wintershall cs
B 17b	315			
B 18a			40	NAM
B 18b	159			
D 3	2			
D 6	60			
D 9	149			
D 12a			214	Wintershall cs
D 12b	40			
D 15			247	GDF Production cs
D 18a		58		GDF Production cs
D 18b	140			
E 1	374			
E 2	397			

Block/ Part of block	Area not in licence (km ²)	Area in licence (km ²)	Type*	Licence holder
E 3	397			
E 4	398			
E 5	398			
E 6	398			
E 7	400			
E 8	400			
E 9	400			
E 10a	105			
E 10b	155			
E 10c	141			
E 11	401			
E 12	401			
E 13	403			
E 14	403			
E 15a			39	Wintershall cs
E 15b	364			
E 16	405			
E 17a		87		GDF Production cs
E 17b		27		GDF Production cs
E 17c	291			
E 18a			212	Wintershall cs
E 18b	193			
F 1	397			
F 2a			307	Petro-Canada Neth. cs
F 2b	90			
F 3			397	NAM cs
F 4	398			
F 5	398			
F 6a			8	Total cs
F 6b		390		NAM
F 7	400			
F 8	400			
F 9				Denerco cs
		400		
F 10	401			
F 11	401			
F 12		401		Total cs
F 13a			4	Wintershall cs
F 13b		399		Wintershall cs
F 14	403			
F 15a			234	Total cs
F 15b	72			
F 15c	93			

Block/ Part of block	Area not in licence (km ²)	Area in licence (km ²)	Type*	Licence holder
F 15d			4	Total cs
F 16			405	Wintershall cs
F 17a	387			
F 17c			18	NAM
F 18	405			
G 7		122		Denerco cs
G 10	397			
G 11	174			
G 13	403			
G 14			403	GDF Production cs
G 15	226			
G 16a			224	GDF Production cs
G 16b			5	GDF Production cs
G 16c	176			
G 17a			275	GDF Production cs
G 17c			34	GDF Production cs
G 17d			96	GDF Production cs
G 18	405			
H 13	1			
H 16	72			
J 3a			72	Total cs
J 3b			42	CH4 Nederland cs
J 3c	31			
J 6			83	CH4 Nederland cs
J 9	18			
K 1a			83	Total cs
K 1b	323			
K 2a			27	NAM
K 2b			110	GDF Production
K 2c				Total cs
			47	
K 2d	222			
K 3a			83	GDF Production cs
K 3b			7	Total cs
K 3c	290			
K 3d			26	Total cs
K 4a			307	Total
K 4b			101	Total cs
K 5a			204	Total cs
K 5b			204	Total cs

Block/ Part of block	Area not in licence (km ²)	Area in licence (km ²)	Type*	Licence holder
K 6			408	Total cs
K 7			408	NAM
K 8			410	NAM cs
K 9a			150	GDF Production cs
K 9b			61	GDF Production cs
K 9c			199	GDF Production cs
K 10a			195	Wintershall cs
K 10b			68	Wintershall cs
K 10c			26	Wintershall cs
K 10d	86			
K 11			411	NAM cs
K 12			411	GDF Production cs
K 13	324			
K 14			413	NAM
K 15			413	NAM
K 16	267			
K 17			414	NAM
K 18a			36	Wintershall cs
K 18b			155	Wintershall cs
K 18c	223			
L 1a			30	Total cs
L 1b	340			
L 1d			7	Total
L 1e			12	Total cs
L 1f			17	Total cs
L 2			406	NAM
L 3	406			
L 4a			313	Total cs
L 4b	83			
L 4c			12	NAM
L 5a			163	NAM
L 5b			237	Wintershall cs
L 5c			8	Wintershall cs
L 6a	35			Wintershall cs
		332		
L 6b			60	Wintershall cs
L 6d			16	ATP Oil & Gas
L 7			410	Total cs
L 8a			213	Wintershall cs
L 8b			181	Wintershall cs
L 8c	16			
L 9a			209	NAM
L 9b			201	NAM

Block/ Part of block	Area not in licence (km²)	Area in licence (km²)	Type*	Licence holder
L 10			411	GDF Production cs
L 11a			185	GDF Production cs
L 11b			47	Unocal cs
L 11c	179			
L 12a			344	NAM cs
L 12b			67	NAM cs
L 13			413	NAM cs
L 14a			21	GDF Production cs
L 14b	392			
L 15a	81			
L 15b			117	NAM cs
L 15c			4	NAM
L 16a			238	Wintershall cs
L 16b	90			
L 16c	86			
L 17	394			
L 18	13			
M 1a		213		Wintershall
M 1b		193		Wintershall
M 2	406			
M 3	406			
M 4		408		Wintershall
M 5	408			
M 6	408			
M 7			410	Wintershall cs
M 8	405			
M 9a			213	NAM cs
M 9b	158			
M 10	222			
M 11	28			
N 1	217			
N 4	381			
N 5	14			
N 7 a			141	NAM
N 7b				GDF Production cs
			174	
N 8	34			
O 12	2			
O 15	143			
O 17	2			
O 18	367			

Block/ Part of block	Area not in licence (km ²)	Area in licence (km ²)	Type*	Licence holder
P 1	209			
P 2a	216			
P 2b	200			
P 3	416			
P 4	170			
P 5	417			
P 6			417	Wintershall cs
P 7	222			
P 8	419			
P 9a			59	Unocal cs
P 9b			67	Unocal cs
P 9c			267	Unocal cs
P 9d	26			
P 10		355		Petro-Canada Neth.
P 11a			2	Wintershall
P 11b			210	Petro-Canada Neth.
P 11c		209		Petro-Canada Neth.
P 12			421	Wintershall cs
P 13	422			
P 14a			317	Wintershall
P 14b	105			
P 15a			203	BP Ned. Energie cs
P 15b			17	BP Ned. Energie cs
P 15c			202	BP Ned. Energie cs
P 16	424			
P 17	424			
P 18a			105	BP Ned. Energie
P 18b	313			
P 18c			6	BP Ned. Energie cs
Q 1			416	Unocal cs
Q 2a		332		Wintershall cs
Q 2c			32	Unocal cs
Q 4			417	Wintershall cs
Q 5a	< 0,5			
Q 5b	104			
Q 5c			98	Wintershall cs
Q 5d			44	Wintershall cs
Q 5e			4	Wintershall cs
Q 5f	48			
Q 5i	< 0,5			
Q 7	419			
Q 8			247	Wintershall cs

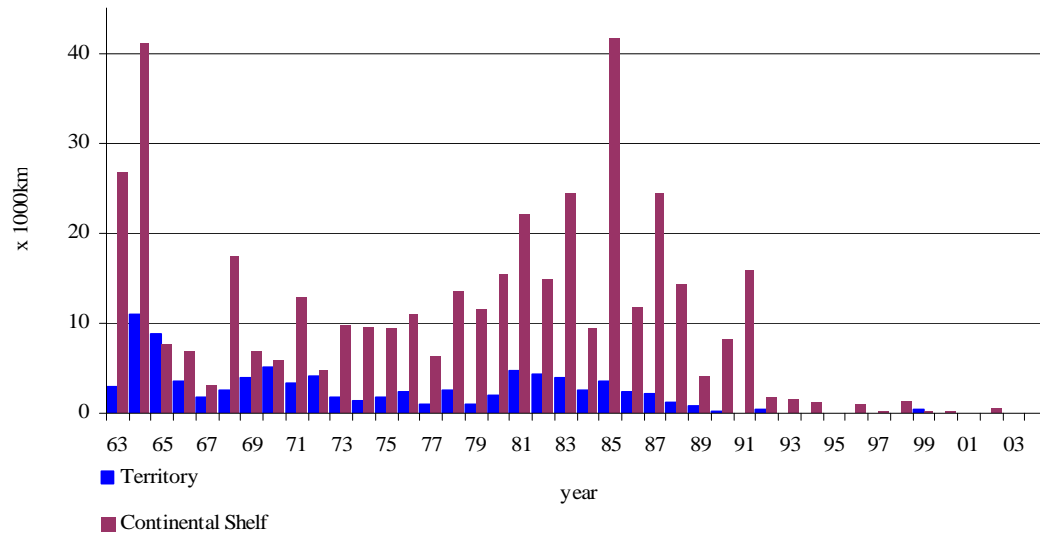
Block/ Part of block	Area not in licence (km ²)	Area in licence (km ²)	Type*	Licence holder
Q 10a	261			
Q 10b	19			
Q 10d	120			
Q 10e	21			
Q 11	162			
Q 13	399			
Q 14	25			
Q 16a			85	NAM cs
Q 16b	80			
R 2	103			
R 3	425			
R 5	7			
R 6	311			
R 9	28			
S 1	425			
S 2	425			
S 3	340			
S 4	427			
S 5	378			
S 6	45			
S 7	360			
S 8	129			
S 10	36			
S 11	< 0,5			
T 1	1			
Total*	33.973	5 221	17 656	

*) Rounding may result in a different figure for the total area in comparison to chapter 4

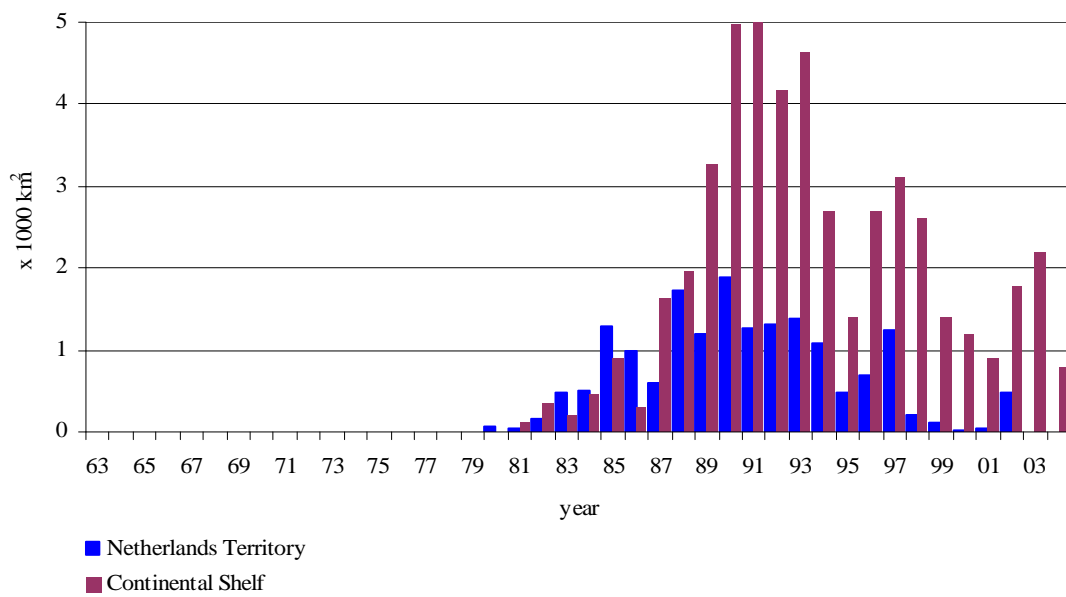
SEISMIC SURVEYS

Year	Netherlands Territory		Continental Shelf	
	2 D line km	3 D area in km ²	2 D line km	3 D area in km ²
63	2 860	-	26 778	-
64	10 992	-	41 136	-
1965	8 885	-	7 707	-
66	3 510	-	6 939	-
67	1 673	-	3 034	-
68	2 541	-	17 349	-
69	3 857	-	6 846	-
1970	5 113	-	5 780	-
71	3 252	-	12 849	-
72	4 034	-	4 716	-
73	1 783	-	9 708	-
74	1 422	-	9 536	-
1975	1 706	-	9 413	-
76	2 318	-	10 963	-
77	948	-	6 184	-
78	2 466	-	13 568	-
79	986	-	11 575	-
1980	2 017	76	15 497	-
81	4 627	37	22 192	110
82	4 363	170	14 791	337
83	3 980	478	24 498	208
84	2 523	512	9 314	455
1985	3 480	1 282	41 593	892
86	2 386	993	11 795	296
87	2 243	601	24 592	1 637
88	1 103	1 726	14 356	1 958
89	828	1 206	4 033	3 264
1990	160	1 889	8 288	4 972
91	-	1 268	15 853	5 002
92	388	1 307	1 799	4 173
93	-	1 382	1 591	4 637
94	-	1 074	1 089	2 694
1995	-	491	-	1 408
96	-	689	892	2 686
97	-	1 236	260	3 101
98	-	214	1 383	2 603
99	43	124	181	1 409
2000	-	33	160	1 189
01	5	47	-	898
02	-	-	495	1 778
03	-	-	-	2 185
04	-	-	34	790

2D Seismic surveys 1963 - 2004



3D Seismic surveys 1963 - 2004



OIL AND GAS WELLS, number of wells Netherlands Territory

Year	Exploration					Appraisal					Production
	O	G	G&O	D	Σ	O	G	G&O	D	Σ	Σ
Up to 1967	2	26	-	61	89	-	8	-	4	12	278
1968	-	3	-	4	7	-	2	-	2	4	23
1969	-	2	-	11	13	-	2	-	1	3	27
1970	-	3	-	11	14	-	1	-	-	1	25
1971	-	3	-	9	12	-	3	-	1	4	55
1972	-	3	-	7	10	-	-	-	2	2	64
1973	-	2	-	2	4	-	1	-	-	1	46
1974	-	-	-	2	2	-	4	-	1	5	50
1975	-	3	-	5	8	-	-	-	2	2	48
1976	-	2	-	5	7	-	12	-	-	12	37
1977	-	3	-	4	7	2	10	-	1	13	14
1978	-	2	-	4	6	-	20	-	-	20	36
1979	-	4	-	2	6	2	11	-	2	15	42
1980	1	2	-	2	5	2	16	-	4	22	33
1981	2	2	-	11	15	5	7	-	2	14	23
1982	-	5	-	9	14	-	8	-	2	10	14
1983	-	4	-	4	8	1	13	-	1	15	8
1984	1	6	-	7	14	4	8	-	4	16	32
1985	1	5	-	9	15	2	10	-	-	12	34
1986	-	2	-	10	12	-	3	-	-	3	35
1987	-	1	2	6	9	-	1	-	-	1	22
1988	-	5	1	2	8	1	4	-	-	5	17
1989	-	2	1	6	9	2	5	-	-	7	11
1990	-	3	1	4	8	-	3	1	1	5	17
1991	-	7	1	3	11	-	3	-	1	4	11
1992	-	5	2	4	11	-	1	-	-	1	12
1993	-	8	-	2	10	-	-	-	-	-	11
1994	-	4	-	1	5	2	2	-	1	5	4
1995	-	3	-	10	13	-	3	-	-	3	14
1996	-	2	-	3	5	2	3	-	2	7	30
1997	-	8	-	3	11	-	6	-	-	6	12
1998	-	7	-	4	11	-	7	-	-	7	8
1999	-	2	-	3	5	-	3	-	-	3	7
2000	-	2	-	-	2	-	2	-	-	2	5
2001	-	2	-	1	3	-	-	-	-	-	6
2002	-	1	-	3	4	-	1	-	-	1	5
2003	-	1	-	2	3	-	-	-	-	-	7
2004	-	-	-	-	-	-	1	-	-	1	1
Total:	7	145	8	236	396	25	185	1	34	244	1 124

D = dry
 G = gas
 G&O = gas and oil
 O = oil
 Σ = total

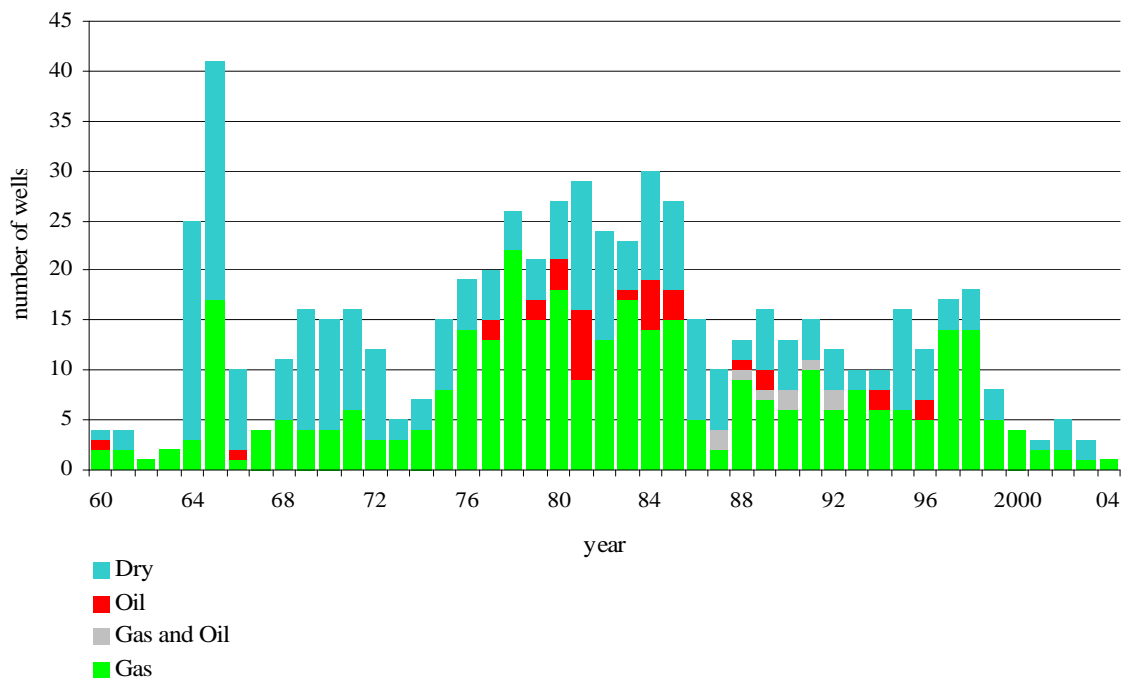
OIL AND GAS WELLS, number of wells Netherlands Continental Shelf

Year	Exploration					Appraisal					Production
	O	G	G&O	D	Σ	O	G	G&O	D	Σ	Σ
Up to 1967	-	-	-	3	3	-	-	-	-	-	-
1968	-	2	-	5	7	-	-	-	-	-	-
1969	-	2	-	13	15	-	-	-	1	1	-
1970	-	6	-	7	14	-	-	-	-	-	-
1971	1	3	-	15	18	1	-	-	-	1	-
1972	-	10	-	6	16	-	-	-	1	1	-
1973	-	4	-	13	17	-	1	-	1	2	2
1974	-	7	-	8	16	-	1	-	-	1	9
1975	1	6	-	9	15	-	1	-	2	3	2
1976	-	5	-	11	16	1	2	-	-	3	4
1977	-	3	-	20	23	1	3	-	1	5	18
1978	-	4	-	14	18	1	2	-	2	5	14
1979	-	7	-	9	17	-	3	-	1	4	9
1980	1	6	-	16	26	2	2	-	1	5	7
1981	4	3	-	11	15	6	5	-	6	17	5
1982	1	6	-	22	35	1	6	-	3	10	20
1983	7	3	-	27	31	1	2	-	9	12	15
1984	1	6	-	19	26	3	1	-	3	7	24
1985	1	9	-	24	36	2	4	-	1	7	35
1986	3	9	-	14	25	2	2	-	1	5	15
1987	2	9	1	12	22	1	2	1	1	5	13
1988	-	12	1	8	21	-	4	-	1	5	21
1989	-	10	-	13	23	-	4	-	1	5	17
1990	-	8	-	21	29	-	6	-	-	6	14
1991	-	15	-	26	43	-	2	-	-	2	18
1992	2	8	-	11	19	-	-	-	1	1	15
1993	-	3	-	10	13	-	1	-	-	1	17
1994	-	4	-	5	10	1	1	-	-	2	10
1995	1	2	-	3	5	-	1	1	1	3	16
1996	-	10	1	12	24	-	5	-	-	5	6
1997	1	7	-	13	21	1	8	-	1	10	13
1998	1	9	-	8	17	1	1	-	1	3	13
1999	-	7	-	5	12	-	1	-	1	2	6
2000	-	4	-	2	6	-	6	-	-	6	9
2001	-	9	-	6	15	-	2	-	2	4	12
2002	-	6	-	10	16	-	1	-	2	3	13
2003	-	6	-	1	7	-	3	-	1	4	13
2004	-	7	-	4	11	-	2	-	-	2	6
-	-	-	-	-	-	-	-	-	-	-	-
Total:	27	236	3	436	702	25	84	2	46	157	433

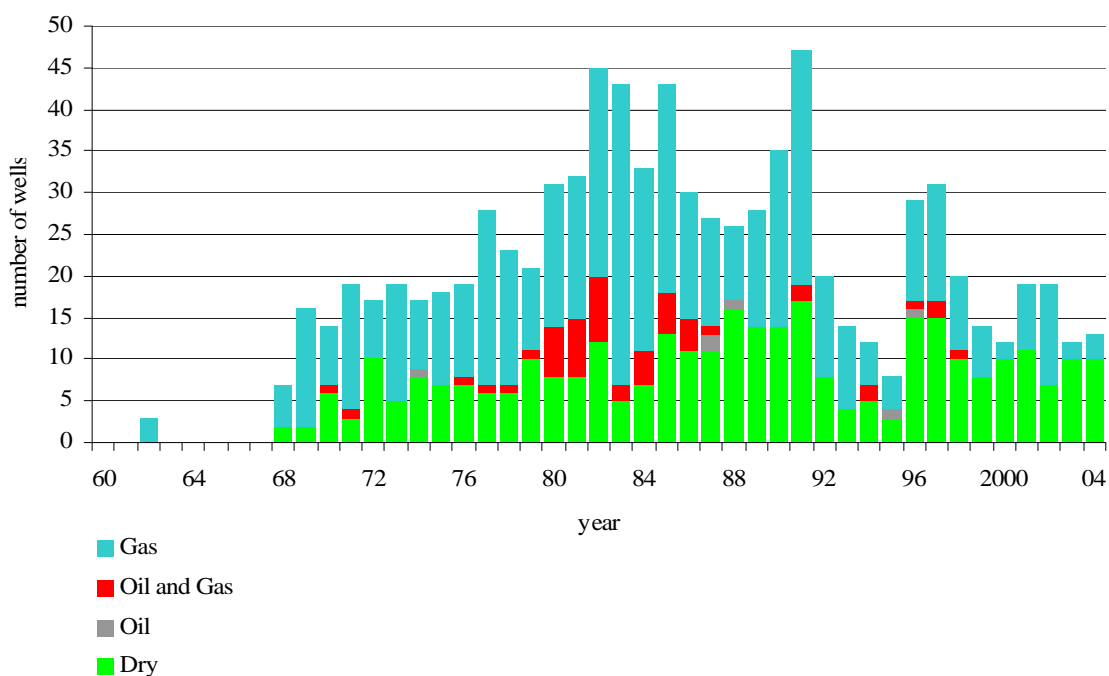
D = dry
 G = gas
 G&O = gas and oil
 O = oil
 Σ = total

NUMBER OF WELLS (GRAPHS), Netherlands Territory and Continental Shelf

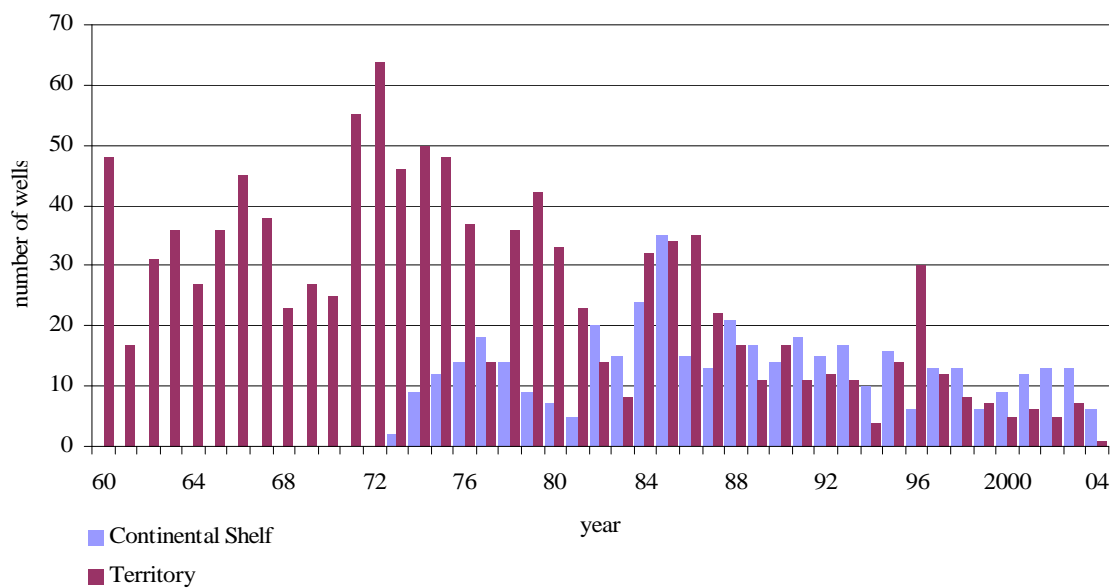
Exploration and appraisal wells, Netherlands Territory 1960 – 2004



Exploration and appraisal wells, Continental Shelf 1960 – 2004



Production wells 1960 - 2004



PLATFORMS, Netherlands Continental Shelf as at 1 January 2005

Platform	Operator	Year of installation	Number of legs	G* / O*	Function
K13-A	Wintershall	1974	8	G	production/compression
K13-A	Wintershall	1974	4	G	wellhead
L10-A	Gaz de France	1974	8	G	production
L10-A	Gaz de France	1974	10	G	wellhead/compression
L10-A	Gaz de France	1974	4	G	riser
L10-B	Gaz de France	1974	4	G	satellite
L10-C	Gaz de France	1974	4	G	satellite
K14-FA-1	NAM	1975	10	G	integrated
L7-B	Total	1975	4	G	integrated
K15-FA-1	NAM	1977	10	G	integrated
K8-FA-1	NAM	1977	10	G	integrated
K8-FA-2	NAM	1977	4	G	satellite
L10-D	Gaz de France	1977	4	G	satellite
L10-E	Gaz de France	1977	4	G	satellite
L7-C(C)	Total	1977	4	G	wellhead
L7-C(P)	Total	1977	8	G	production
L7-C(Q)	Total	1977	4	--	accommodation
K15-FB-1	NAM	1978	10	G	integrated
L7-BB	Total	1978	4	G	wellhead
K7-FA-1	NAM	1980	4	G	wellhead
L10-BB	Gaz de France	1980	3	G	wellhead
L10-F	Gaz de France	1980	4	G	satellite
K10-B	Wintershall	1981	6	G	production
K10-B	Wintershall	1981	6	G	wellhead
L4-A(PA)	Total	1981	8	G	integrated
Q1-HELM	Unocal	1981	6	O	production
Q1-HELM	Unocal	1981	4	O	wellhead
K7-FA-1	NAM	1982	6	G	production
P6-A	Wintershall	1982	8	G	integrated
Q1-HELDER-A	Unocal	1982	6	O	production
Q1-HELDER-A	Unocal	1982	4	O	wellhead
K12-A	Gaz de France	1983	4	G	satellite
L7-C(PK)	Total	1983	4	G	compression
Q1-HOORN	Unocal	1983	6	O	production
Q1-HOORN	Unocal	1983	4	O	wellhead
K12-C	Gaz de France	1984	4	G	satellite
K18-KOTTER	Wintershall	1984	8	O	production
K18-KOTTER	Wintershall	1984	6	O	wellhead
K8-FA-3	NAM	1984	6	G	satellite
L10-EE	Gaz de France	1984	3	G	wellhead
L10-G	Gaz de France	1984	4	G	satellite
L4-B	Total	1984	4	G	wellhead
L7-A	Total	1984	4	G	satellite

Platform	Operator	Year of installation	Number of legs	G* / O*	Function
AWG-1	NAM	1985	3	G	riser
AWG-1P	NAM	1985	6	G	production
AWG-1W	NAM	1985	4	G	wellhead
K12-D	Gaz de France	1985	4	G	satellite
K14-FA-1C	NAM	1985	8	G	compression
L16-LOGGER	Wintershall	1985	4	O	production
L16-LOGGER	Wintershall	1985	4	O	wellhead
P15-RIJN-A	BP	1985	4	O	wellhead
P15-RIJN-C	BP	1985	6	O	production
P6-B	Wintershall	1985	4	G	satellite
K12-E	Gaz de France	1986	4	G	satellite
L11b-A	Unocal	1986	4	G	integrated
L13-FC-1	NAM	1986	4	G	wellhead
L13-FC-1	NAM	1986	6	G	production
Q8-A	Wintershall	1986	3	G	wellhead
K12-BD	Gaz de France	1987	4	G	wellhead
K12-BP	Gaz de France	1987	8	G	production
K9ab-A	Gaz de France	1987	4	G	integrated
K9c-A	Gaz de France	1987	4	G	integrated
L10-AC	Gaz de France	1987	4	G	compression
Zuidwal	Total	1987	8	G	wellhead
K12-CC	Gaz de France	1988	4	G	compression
L10-L	Gaz de France	1988	4	G	satellite
L10-S-1	Gaz de France	1988	-	G	subsea completion
L13-FD-1	NAM	1988	4	G	satellite
L7-N	Total	1988	4	G	satellite
L8-A	Wintershall	1988	4	G	satellite
L8-G	Wintershall	1988	6	G	integrated
L8-H	Wintershall	1988	4	G	satellite
K15-FC-1	NAM	1989	4	G	satellite
L13-FE-1	NAM	1989	4	G	satellite
L7-H	Total	1989	4	G	satellite
Q1-HAVEN-A	Unocal	1989	1	O	satellite
K15-FG-1	NAM	1990	4	G	satellite
L11a-A	Gaz de France	1990	4	--	jacket
P12-SW	Wintershall	1990	4	G	satellite
AME-2	NAM	1991	4	G	wellhead
AME-2	NAM	1991	4	G	production
K12-S1	Gaz de France	1991	-	G	subsea completion
K6-D	Total	1991	4	G	wellhead
K6-P	Total	1991	4	G	production
L2-FA-1	NAM	1991	6	G	integrated
F15-A	Total	1992	6	G	integrated
F3-FB-1P	NAM	1992	3+GBS	G+O	integrated
J6-A	ENI	1992	6	G	integrated
K6-C	Total	1992	4	G	wellhead/riser

Platform	Operator	Year of installation	Number of legs	G* / O*	Function
K6-DN	Total	1992	4	G	satellite
L5-FA-1	NAM	1992	6	G	integrated
P15-10S	BP	1992	-	G	subsea completion
P15-12S	BP	1992	-	G	subsea completion
P15-14S	BP	1992	-	G	subsea completion
F3-FB-AP	NAM	1993	3	G+O	accommodation
F3-OLT	NAM	1993	1	O	offshore loading tower
K10-V	Wintershall	1993	4	G	satellite
K6-N	Total	1993	4	G	satellite
L15-FA-1	NAM	1993	6	G	integrated
P14-A	Wintershall	1993	4	G	satellite
P15-D	BP	1993	6	G	production
P15-E	BP	1993	4	G	satellite
P15-F	BP	1993	4	G	satellite
P15-G	BP	1993	4	G	satellite
P18-A	BP	1993	4	G	satellite
P9-Horizon	Unocal	1993	4	O	integrated
P9-Seafox-1	Unocal	1993	4	O	accommodation
K5-A	Total	1994	4	G	wellhead
K5-D	Total	1994	4	G	satellite
K5-P	Total	1994	4	G	production
L8-P	Wintershall	1994	4	G	satellite
Q8-B	Wintershall	1994	4	G	satellite
K11-B	Gaz de France	1995	4	G	satellite
K5-B	Total	1995	4	G	satellite
L13-FH-1	NAM	1995	-	G	subsea completion
Q1-Halfweg	Unocal	1995	4+GBS	G	satellite
K14-FB-1	NAM	1997	4	G	satellite
K4a-D	Total	1997	-	G	subsea completion
K5-EN/C	Total	1997	4	G	satellite
L10-S-2	Gaz de France	1997	-	G	subsea completion
L10-S-3	Gaz de France	1997	-	G	subsea completion
L10-S-4	Gaz de France	1997	-	G	subsea completion
N7-FA-SP	NAM	1997	1	G	satellite
P2-NE	Wintershall	1997	4	G	satellite
P6-S	Wintershall	1997	4	G	satellite
K4-A	Total	1998	4	G	satellite
K6-GT	Total	1998	4	G	satellite
K7-FD-1	NAM	1998	4	G	satellite
L9-FF-1P	NAM	1998	6	G	production
L9-FF-1W	NAM	1998	4	G	wellhead
Q16-FA-1	NAM	1998	-	G	subsea completion
D15-FA-1	NAM	1999	6	G	integrated
K9ab-B	Gaz de France	1999	4	G	satellite
L4-PN	Total	1999	4	G	satellite
F2-A-Hanze	Petro-Canada	2000	GBS	G+O	integrated

Platform	Operator	Year of installation	Number of legs	G* / O*	Function
K4-BE	Total	2000	4	G	satellite
L10-M	Gaz de France	2000	4	G	satellite
L8-A-west	Wintershall	2000	-	G	subsea completion
L8-P4	Wintershall	2000	4	G	satellite
Q4-A	Wintershall	2000	4	G	satellite
P6-D	Wintershall	2001	4	G	satellite
K12-G	Gaz de France	2001	4	G	satellite
G17d-A	Gaz de France	2001	4	G	jacket
K8-FA-1P	NAM	2001	4	--	accommodation
K1-A	Total	2001	4	G	satellite
G17d-A	Gaz de France	2002	4	G	satellite
K12-S2	Gaz de France	2002	-	G	subsea completion
K15-FK-1	NAM	2002	4	G	satellite
K5-PK	Total	2002	4	G	satellite
Q4-B	Wintershall	2002	4	G	satellite
K 7-FB-1	NAM	2003	4	G	satellite
K12-S3	Gaz de France	2003	0	G	subsea completion
L 5-B	Wintershall	2003	4	G	satellite
Q 4-C	Wintershall	2003	4	G	satellite
D12-A	Wintershall	2004	4	G	satellite
Q 5-A1	Wintershall	2004	0	G	subsea completion

G* = Gas

O* = Oil

GBS = Gravity Based Structure

PIPELINES, Netherlands Continental Shelf as at 1 January 2005

Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
Gaz de France	L10-C	L10-AP	10.75 * 2.375	1974	1.1	g + m
Gaz de France	L10-B	L10-AP	10.75 * 2.375	1974	7.4	g + m
NGT	L10-AR	Uithuizen	36	1975	179.0	g
Wintershall	K13-AP	Callantssoog	36	1975	120.5	g
Gaz de France	L10-D	L10-AP	10.75 * 2.375	1977	1.1	g + m
Gaz de France	L10-E	L10-AP	10.75 * 2.375	1977	4.0	g + m
NAM	K8-FA-1	K14-FA-1P	24	1977	30.9	g
NAM	K14-FA-1P	WGT-pipe (s)	24	1977	0.1	g + co
TotalFinaElf	L7-B	L7-P	12.75+4.5+3.5	1977	7.9	g + w + g
TotalFinaElf	L7-P	L10-AR	16	1977	15.8	g
Wintershall	K13-B	K13-AP	10 * 2	1977	9.2	def.verl.
NAM	K11-FA-1	K8-FA-1	6.625	1978	6.0	def.verl.
NAM	K8-FA-1	K8-FA-2	3	1978	4.0	c
NAM	K8-FA-2	K8-FA-1	10.75	1978	3.8	g + co
NAM	K15-FA-1	WGT-pipe (s)	24	1978	0.1	co
Wintershall	K13-D	K13-C	10 * 2	1978	3.5	def.verl.
Wintershall	K13-C (Bypass)	K13-AP	20	1978	10.2	g
Gaz de France	L10-F	L10-AP	10.75 * 2.375	1980	4.3	g + m
TotalFinaElf	L4-A	L7-P	12.75 + 3.5	1981	22.8	g + gl
NAM	K7-FA-1P	K8-FA-1	18	1982	9.4	g + co
Unocal	Q1-Helder-AW	Q1-Helm-AP	20	1982	6.2	o
Unocal	Q1-Helm-AP	IJmuiden	20	1982	56.7	o
Wintershall	K10-C (Bypass)	K10-B	10 * 2	1982	5.2	g + m
Wintershall	K10-B	K13-C (Bypass)	20	1982	7.4	g
Gaz de France	K12-A	L10-AP	14 * 2.375	1983	29.2	g + m
NAM	K15-FB-1	Callantssoog	24	1983	74.3	g + co
Unocal	Q1-Hoorn-AP	Q1-Helder-AW	10.75	1983	3.5	o
Wintershall	P6-A	L10-AR	20	1983	78.7	g
Gaz de France	L10-G	L10-B / L10-A (s)	10.75 * 2.375	1984	4.7	g + m
Gaz de France	L10-K	L10-B / L10-A (s)	10.75 * 2.375	1984	5.5	def.verl.
Gaz de France	L10-B	L10-AD	14	1984	6.8	g
Gaz de France	L10-EE	L10-B / L10-A (s)	10	1984	0.2	g
Gaz de France	K12-C	K12-A / L10-A (s)	10 * 2	1984	0.4	g + m
Wintershall	K18-Kotter-P	Q1-Helder-A	12	1984	20.2	o
BP	P15-C	Hoek v. Holland	10	1985	42.6	o
BP	P15-B	P15-C	10	1985	3.4	def.verl.
BP	P15-B	P15-C	6	1985	3.4	def.verl.
BP	P15-C	P15-B	6	1985	3.4	def.verl.
BP	P15-B	P15-C	4	1985	3.4	def.verl.
Gaz de France	K12-D	K12-C	10.75 * 2.375	1985	4.3	g + m
NAM	AWG-1R	NGT-pipe (s)	20	1985	7.1	g + co + ci
NAM	AME-1	AWG-1R	20	1985	4.2	g + co
TotalFinaElf	L4-B	L7-A	10.75 + 3.5	1985	10.1	g + gl

Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
TotalFinaElf	L7-A	L7-P	10.75+ 3.5	1985	10.4	g + gl
Wintershall	L16-Logger-P	K18-Kotter-P	8	1985	18.9	o
Wintershall	K18-Kotter-P	L16-Logger-P	6	1985	18.9	w
Wintershall	P6-B	P6-A	12 * 3	1985	3.9	g + gl
Wintershall	P6-C (future .plf)	P6-B	12 * 3	1985	2.9	g + gl
Gaz de France	K12-A/ L10-A (s)	K12-E	2.375	1986	3.9	m
Gaz de France	K12-E	K12-C	10.75	1986	6.3	g
NAM	L13-FC-1P	K15-FA-1	18	1986	15.4	g + co
NAM	K8-FA-3	K7-FA-1P	12.75	1986	8.9	g
NGT	L11b-A	NGT-pipe (s)	14	1986	6.8	g
Unocal	Q1-Helder-B	Q1-Helder-AW	8.625	1986	1.8	def.verl.
Wintershall	Q8-A	Wijk aan Zee	10	1986	13.7	g
NAM	K15-FA-1	K14-FA-1C	18	1987	24.2	g + co
NGT	K12-BP	L10-AR	18	1987	21.4	g
NGT	K9c-A	L10-AR	16	1987	36.6	g
NGT	K9c-A/L10-AR(s)	K9ab-A	16	1987	0.1	g
TotalFinaElf	Zuidwal	Harlingen TC	20 + 3 + 3	1987	20.3	g + gl + c
Gaz de France	K12-A	K12-CC	10.75	1988	8.3	g
Gaz de France	L10-L	L10-AP	10.75 * 2.375	1988	2.2	g + m
Gaz de France	L10-S1	L10-AP	6.625 * 2.375	1988	11.5	def.verl.
Gaz de France	K12-E	L10-S1	90 mm	1988	4.6	def.verl.
NGT	L8-G	L11b-A	14	1988	14.4	g
TotalFinaElf	L7-P	L7-N	10.75 * 3.5	1988	4.2	g + gl
Wintershall	L8-H	L8-A / L8-G(s)	8	1988	0.2	g
Wintershall	K13-C (Bypass)	K10-B / K13-A (s)	20	1988	2.5	g
Wintershall	L8-A	L8-G	8	1988	10.0	g
NAM	L13-FD-1	L13-FC-1P	10	1989	3.7	g + co
NAM	L13-FC-1P	L13-FD-1	3.6	1989	3.6	c
NAM	K8-FA-2	K8-FA-1	10.75	1989	4.0	g + co + ci
TotalFinaElf	L7-H	L7-N	10.75 * 3.5	1989	10.4	g + gl
Unocal	Q1-Haven-A	Q1-Helder-AW	8.625	1989	5.8	def.verl.
Gaz de France	L14-S1	L11a-A	6.625 * 2.375	1990	6.0	def.verl.
Gaz de France	K12-B	K12-S1	3.5	1990	4.9	c
NAM	K15-FC-1	K15-FB-1	10.75	1990	7.9	g + co
NAM	K15-FB-1	K15-FC-1	4.03	1990	7.9	c
NAM	K15-FG-1	K15-FA-1	14.3	1990	7.0	g + co
NAM	K15-FA-1	K15-FG-1	4.03	1990	7.0	c
NAM	L13-FE-1	L13-FC-1P	12.98	1990	4.3	g + co
NAM	L13-FC-1P	L13-FE-1	3.76	1990	4.3	c
NGT	L11a-A	NGT-pipe (s)	10.75	1990	11.8	g
Wintershall	P12-C	P12-SW	8 * 3	1990	6.9	def.verl.
Wintershall	P12-SW	P6-A	12 * 3	1990	42.0	g + gl
Gaz de France	K12-S1	K12-BP	6.625 * 2.375	1991	4.9	g + m
NAM	AME-2	AWG-1R	13.6	1991	5.2	g + co
NAM	AWG-1R	AME-2	4.02	1991	5.2	c
NAM	F3-FB-1P	L2-FA-1	24	1991	108.1	g + co

Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
NAM	L2-FA-1	Callantssoog	36	1991	144.2	g + co
NAM	L5-FA-1	NOGAT-pipe (s)	16	1991	0.4	g + co
NAM	L15-FA-1	NOGAT-pipe (s)	16	1991	0.4	g + co
NAM	F15-A	NOGAT-pipe (s)	16	1991	0.3	g + co
NGT	K6-C	K9c-A	16	1991	5.2	g
TotalFinaElf	K6-D	K6-C	10.75 * 3.5	1991	3.8	g + gl
TotalFinaElf	K6-DN	K6-C	12.75 * 3.5	1992	5.4	g + gl
Wintershall	J6-A	K13-AW	24	1992	85.8	g
BP	P15-D	Maasvlakte	26	1993	40.1	g
BP	P15-E	P15-D	10 * 2	1993	13.9	g + m
BP	P15-F	P15-D	12 * 3	1993	9.1	g + m
BP	P15-G	P15-D	12 * 3	1993	9.1	g + m
BP	P15-10S	P15-D	4 * 2	1993	3.9	g + m
BP	P15-D	P15-10S	90 mm	1993	3.9	c
BP	P15-12S	P15-D	4 * 2	1993	6.1	g + m
BP	P15-D	P15-12S	90 mm	1993	6.1	c
BP	P15-14S	P15-G	4 * 2	1993	3.7	g + m
BP	P15-D	P15-14S	90 mm	1993	8.0	c
BP	P18-A	P15-D	16 * 3	1993	20.8	g + m
NAM	F3-FB-1P	F3-OLT	16	1993	2.0	o
NAM	F3-FB-1P	F3-OLT	3.21	1993	2.0	c
TotalFinaElf	K6-N	K6-C	12.75 * 3.5	1993	8.5	g + gl
Unocal	P9-Horizon-A	Q1-Helder-AW	10.75	1993	4.8	o + w
Wintershall	K10-V	K10-C (Bypass)	10 * 2	1993	10.3	g + m
Wintershall	P14-A	P15-D	10 * 2	1993	12.6	g + m
Lasmo	ST-I	J6-A	12 * 2	1994	5.5	g + m
TotalFinaElf	K5-D	K5-A	12.75 * 3.6	1994	10.6	g + gl
Wintershall	Q8-B	Q8-A	8 * 2	1994	8.3	g + m
Wintershall	K5-A	J6-A / K13-AW (s)	18	1994	0.3	g
Wintershall	L8-P	L8-G	8 * 2	1994	7.5	g + m
Gaz de France	K11-B	K12-C	14 * 2.375	1995	16.1	g + m
NAM	L13-FH-1	K15-FA-1	6.625	1995	9.4	g + co + m + ci
NAM	K15-FA-1	L13-FH-1	2.98	1995	9.4	c
TotalFinaElf	K5-B	K5-A	346 mm	1995	6.4	g
TotalFinaElf	K5-A	K5-B	3.5	1995	6.4	m + c
Unocal	Q1-Halfweg	Q1-Hoorn-AP	12.75 * 2.375	1995	12.4	g + co + m
Unocal	Q1-Hoorn-AP	Q1-Halfweg	70.9 mm	1995	12.4	c
Unocal	Q1-Hoorn-AP	WGT-pipe (s)	12.75	1995	17.2	g + co
Unocal	Q1-Haven-A	Q1-Helder-AW	8.625	1995	5.8	o + w
Wintershall	P2-NE	P6-A	10	1996	38.2	g
Wintershall	P6-S	P6-B	203 mm	1996	6.5	g
Gaz de France	L10-S2	L10-AP	6.625 * 2.375	1997	6.3	g + m
Gaz de France	L10-AP	L10-S2	84 mm	1997	7.0	c
Gaz de France	L10-S3	L10-AP	6.625 * 2.375	1997	1.9	g + gl
Gaz de France	K12-E	L10-S3	3.5	1997	4.5	c

Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
Gaz de France	L10-S4	L10-AP	6.625 * 2.375	1997	8.3	g + m
Gaz de France	L10-AP	L10-S4	84 mm	1997	8.4	c
NAM	K14-FA-1P	K15-FB-1	16	1997	16.6	g
NAM	K14-FB-1	K14-FA-1P	10.75	1997	9.2	g + co
NAM	K14-FA-1P	K14-FB-1	3.65	1997	9.2	c
NAM	L9-FF-1P	NOGAT-pipe (s)	24	1997	19.3	g + co
TotalFinaElf	K4a-D	J6-A	183 mm	1997	7.3	g
TotalFinaElf	J6-A	K4a-D	2.5	1997	7.4	m + c
TotalFinaElf	K5-EN/C	K5-D	303 mm	1997	2.7	def.verl.
TotalFinaElf	K5-D	K5-EN/C	2.5	1997	2.7	gl
TotalFinaElf	K5-B	K5-EN/C	70 mm	1997	6.2	c
NAM	K7-FD-1	K8-FA-1	12	1998	9.4	g + co
NAM	K7-FD-1	K8-FA-1	3.4	1998	9.4	c
NAM	K8-FA-1	K14-FA-1C	24	1998	30.9	g
NAM	Q16-FA-1	P18-A	8.625	1998	10.3	g + co
NAM	P18-A	Q16-FA-1	2.375	1998	10.3	m
NAM	Q16-FA-1	P18-A	3.4	1998	10.3	c
TotalFinaElf	K4-A	K5-A	12 * 3	1998	6.9	g + gl
TotalFinaElf	K6-GT	L4-B	10 * 3	1998	10.7	g + gl
TotalFinaElf	K4-A	K5-A	2.5	1998	6.7	c
Gaz de France	K9ab-B	D15-FA-1 / L10-A (s)	10	1999	0.1	g
NGT	D15-FA-1	L10-AC	36	1999	140.7	g
TotalFinaElf	L4-PN	L4-A	10	1999	11.4	g
TotalFinaElf	L4-A	L4-PN	4	1999	11.4	gl
Gaz de France	L10-M	L10-AP	10.75 * 2.375	2000	11.9	g + m
Petro-Canada	F2-A-Hanze	TMLS	16	2000	1.5	o
TotalFinaElf	K4-BE	K4-A	9.5	2000	8.0	def.verl.
TotalFinaElf	K4-A	K4-BE	2.5	2000	8.0	gl
Wintershall	Q4-A	P6-A	14	2000	35.2	g + co
Wintershall	Germany (A6)	F3-FB-1P	20 + 4	2000	119.0	g + co
Wintershall	L8-A-West	L8-P4	6	2000	10.2	g + co
Wintershall	L8-P4	L8-A-West	82 mm	2000	10.2	c
Wintershall	L8-P	L8-P4	12	2000	2.8	g
Wintershall	L8-P4	NGT-pipe (s)	16	2000	28.0	g + co
Gaz de France	K12-G	L10-AP	14 + 2	2001	15.6	g + m
NGT	G17d-A	NGT-pipe (s)	18	2001	64.5	g
Petro-Canada	F2-A-Hanze	A6 / B4 (s)	4	2001	0.1	g
Petro-Canada	F2-A-Hanze	A6 / B4 (s)	62.1 mm	2001	0.1	c
Petro-Canada	F2-A-Hanze	TMLS	62.1 mm	2001	1.5	c
TotalFinaElf	K5-EN/C	K5-D	10.75	2001	2.8	g
TotalFinaElf	K1-A	J6-A	14.75 * 3.5	2001	9.2	g + m
Wintershall	P6-D	P6-B	12	2001	6.8	g
Gaz de France	K12-S2	K12-C	6.625	2002	6.9	g
Gaz de France	K12-S2	K12-C	95.5 mm	2002	6.9	c
Wintershall	Q4-B	Q4-A	10.75	2002	7.3	g
Wintershall	Q4-C	Q1-Hoorn	16 * 2	2002	14.3	g + gl

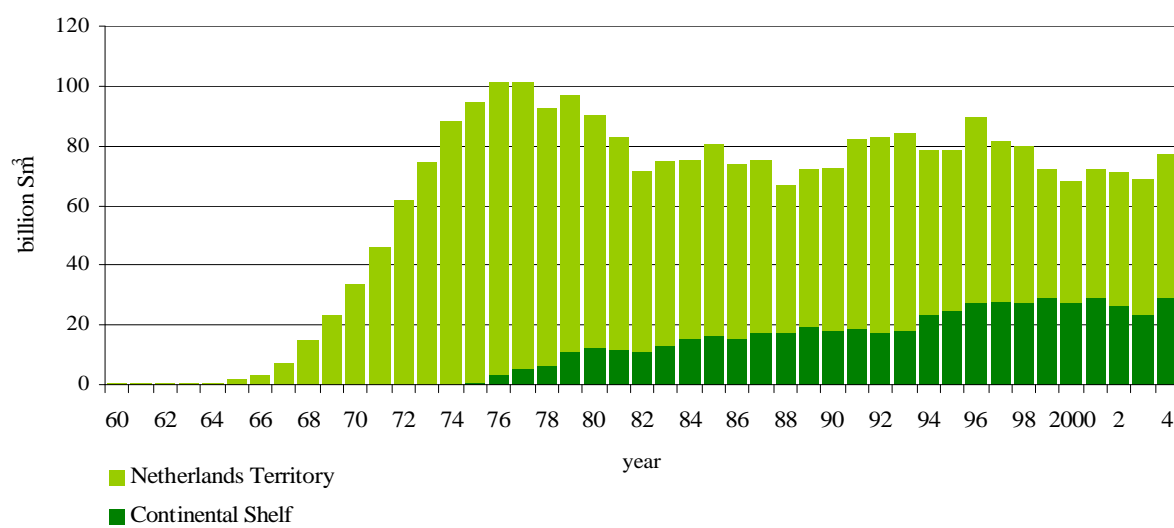
Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
Gaz de France	K12-S3	K12-BP	6	2003	3.4	g
Gaz de France	K12-BP	K12-S3	95.5 mm	2003	3.4	c
Maersk	Denmark Tyra WE	F3-FB-1P	26	2003	38	g
Maersk	F3-FB-1P	Sub sea valve station	4	2003	0.3	c
NAM	K7-FB-1	K7-FD-1	12	2003	17	g
NAM	K8-FA-1	K7-FB-1	4	2003	26	c
NAM	K15-FK-1	K15-FB-1	10	2003	8	g
NAM	K15-FK-1	K15-FB-1	4	2003	8	c
Wintershall	L5-B	L8-P4	10 + 4	2003	6.4	g + c

*	= multiple pipeline	gl	= glycol
+	= laid separately	m	= methanol
c	= control cable	ci	= corrosion inhibitor
o	= oil	l	= instrument air
g	= gas	(s)	= side-tap
co	= condensate	def.verl.	= abandoned

GAS PRODUCTION in million Sm³

Year	Territory	Continental Shelf	Total
1960	384.0	0	384.0
61	476.0	0	476.0
62	538.0	0	538.0
63	603.0	0	603.0
64	876.0	0	876.0
1965	1 818.0	0	1 818.0
66	3 564.0	0	3 564.0
67	7 423.0	0	7 423.0
68	14 889.0	0	14 889.0
69	23 097.0	0	23 097.0
1970	33 417.8	7.9	33 425.7
71	46 248.3	2.4	46 250.7
72	61 661.1	1.4	61 662.5
73	74 765.9	7.8	74 773.7
74	88 358.7	14.6	88 373.3
1975	93 924.0	963.3	94 887.3
76	98 307.4	3 092.7	101 400.1
77	95 603.2	5 479.6	101 082.8
78	86 475.0	6 298.5	92 773.5
79	85 861.9	10 925.5	96 787.4
1980	78 208.9	12 102.0	90 310.9
81	70 928.3	11 798.3	82 726.6
82	60 004.3	11 073.3	71 077.6
83	61 533.0	13 172.2	74 705.2
84	59 351.6	15 787.3	75 138.9
1985	64 573.4	16 070.9	80 644.3
86	58 479.5	15 549.0	74 028.5
87	58 088.8	17 271.4	75 360.2
88	49 092.4	17 591.2	66 683.6
89	52 569.6	19 300.0	71 869.6
1990	54 585.4	17 856.0	72 441.4
91	63 724.1	18 686.3	82 410.4
92	65 701.6	17 279.0	82 980.6
93	66 154.0	17 851.4	84 005.4
94	54 863.3	23 536.9	78 400.2
1995	53 643.0	24 706.9	78 349.9
96	62 295.2	27 350.6	89 645.8
97	54 261.2	27 581.1	81 842.3
98	52 764.2	27 141.2	79 905.4
99	42 823.3	29 206.9	72 030.2
2000	40 320.2	27 473.9	67 794.1
01	43 220.8	29 043.1	72 263.9
02	44 472.4	26 770.1	70 714.8
03	45 257.1	23 508.0	68 765.1
04	48 422.3	29 121.7	77 544.0
Total	2 223 629.0	543 622.4	2 767 252.0

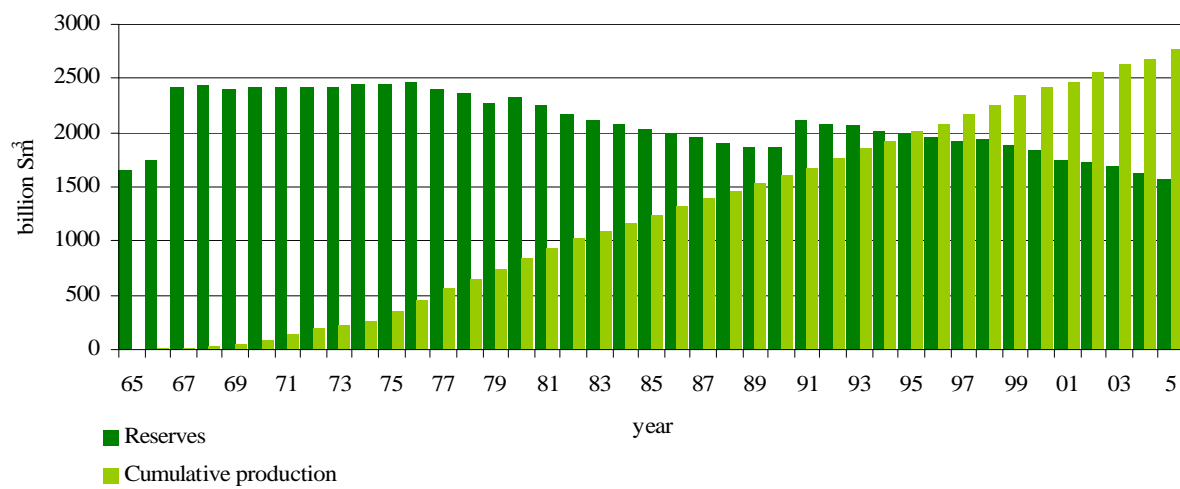
Gas production 1960-2004



GAS RESERVES AND GROSS CUMULATIVE PRODUCTION in billion Sm³

Year	Territory		Continental Shelf		Total	
	as at 1 January	expected reserves	cumulative production	expected reserves	cumulative production	expected reserves
74	2 243	271.2	211	0.0	2 454	271.2
1975	-	359.6	-	0.0	-	359.6
76	2 137	453.5	340	1.0	2 477	454.5
77	2 030	551.8	367	4.1	2 397	555.9
78	1 996	646.9	363	9.6	2 359	656.5
79	1 928	732.9	343	15.9	2 271	748.8
1980	2 023	818.3	304	26.8	2 327	845.1
81	1 953	896.5	298	38.9	2 251	935.4
82	1 899	967.4	275	50.7	2 174	1 018.1
83	1 845	1 027.4	272	61.8	2 117	1 089.2
84	1 809	1 088.9	271	74.9	2 080	1 163.8
1985	1 754	1 148.3	281	90.7	2 035	1 239.0
86	1 704	1 121.9	290	106.8	1 994	1 319.7
87	1 655	1 271.3	300	122.3	1 955	1 393.6
88	1 607	1 330.8	303	139.6	1 910	1 470.4
89	1 557	1 380.0	320	157.2	1 877	1 537.2
1990	1 524	1 432.6	341	176.5	1 865	1 609.1
91	1 780	1 487.1	333	194.4	2 113	1 681.5
92	1 739	1 550.9	347	213.0	2 086	1 763.9
93	1 705	1 616.6	356	230.3	2 061	1 846.9
94	1 658	1 682.7	352	248.2	2 010	1 930.9
1995	1 663	1 737.6	334	271.7	1 997	2 009.3
96	1 631	1 791.2	321	296.4	1 952	2 087.7
97	1 587	1 853.5	343	323.8	1 930	2 177.3
98	1 574	1 907.7	373	351.4	1 947	2 259.1
99	1 533	1 960.6	360	378.5	1 893	2 339.0
2000	1 499	2 001.3	337	407.7	1 836	2 409.0
01	1 447	2 043.7	330	435.1	1 777	2 478.8
02	1 406	2 086.9	333	464.2	1 738	2 551.0
03	1 362	2 131.4	327	491.0	1 689	2 622.3
04	1 357	2 176.7	258	514.1	1 615	2 690.7
05	1 305	2 223.6	267	543.6	1 572	2 767.3

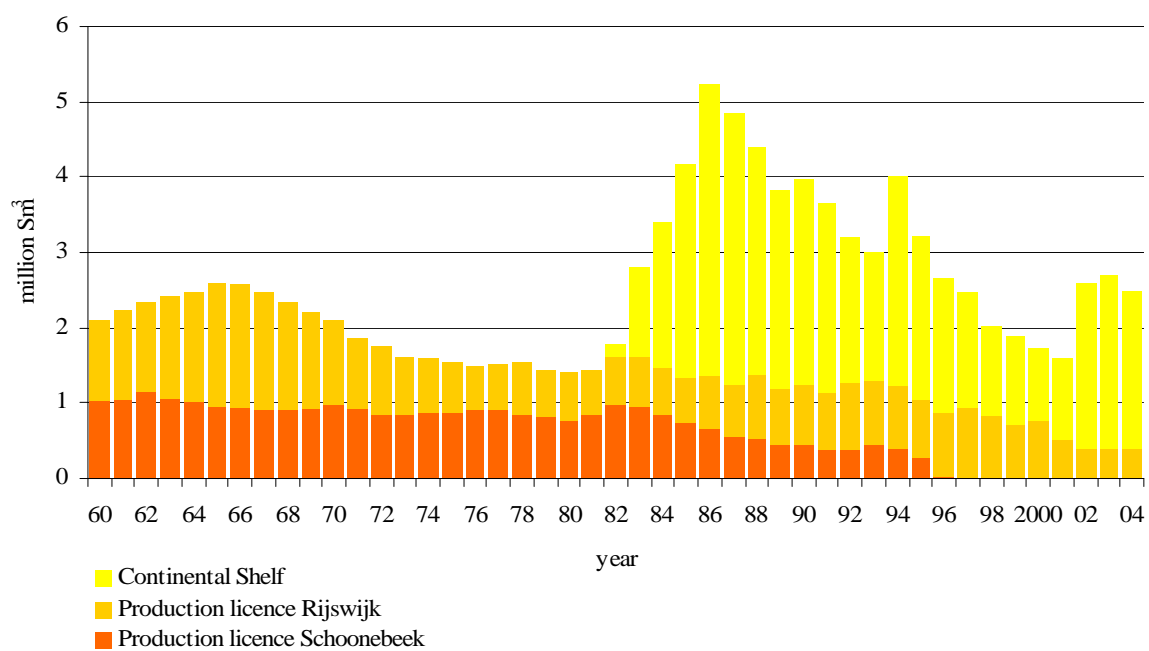
Gas reserves and cumulative production (end of year), 1965 - 2005



OIL PRODUCTION in 1 000 Sm³

Year	Production licence Schoonebeek	Production licence Rijswijk	Continental Shelf	Total
Up to 1969	21 662.8	15 587.2	--	37 250.0
1970	976.0	1 112.2	--	2 088.2
71	940.7	926.8	--	1 867.5
72	856.3	883.1	--	1 739.4
73	838.2	787.4	--	1 625.6
74	878.0	715.5	--	1 593.5
1975	877.0	671.5	--	1 548.5
76	891.9	605.2	--	1 497.1
77	890.8	617.8	--	1 508.6
78	862.3	667.8	--	1 530.1
79	820.4	615.6	--	1 436.0
1980	778.9	617.7	--	1 396.6
81	839.2	596.5	--	1 435.7
82	987.9	625.3	159.7	1 772.9
83	960.0	655.6	1 209.1	2 824.7
84	846.9	615.6	1 921.7	3 384.2
1985	734.5	602.8	2 825.4	4 162.7
86	658.9	688.8	3 889.7	5 237.4
87	556.4	692.5	3 607.8	4 856.7
88	536.0	844.9	3 032.9	4 413.8
89	464.3	731.6	2 634.5	3 830.4
1990	463.0	784.9	2 744.5	3 992.4
91	366.0	777.3	2 527.9	3 671.2
92	379.3	907.3	1 920.7	3 207.3
93	454.0	849.0	1 709.8	3 012.8
94	406.4	811.4	2 804.8	4 022.6
1995	268.3	760.9	2 182.1	3 209.3
96	23.2	856.5	1 767.2	2 647.0
97	-	917.6	1 556.8	2 474.4
98	-	810.4	1 218.9	2 029.3
99	-	714.6	1 173.2	1 887.8
2000	-	776.1	936.4	1 712.5
01	-	542.2	1 085.4	1 627.6
02	-	439.0	2 236.4	2 675.4
03	-	416.2	2 324.6	2 740.0
04	-	381.3	2 081.7	2 463.0
Total	40 217.6	40 606.1	47 551.2	128 372.2

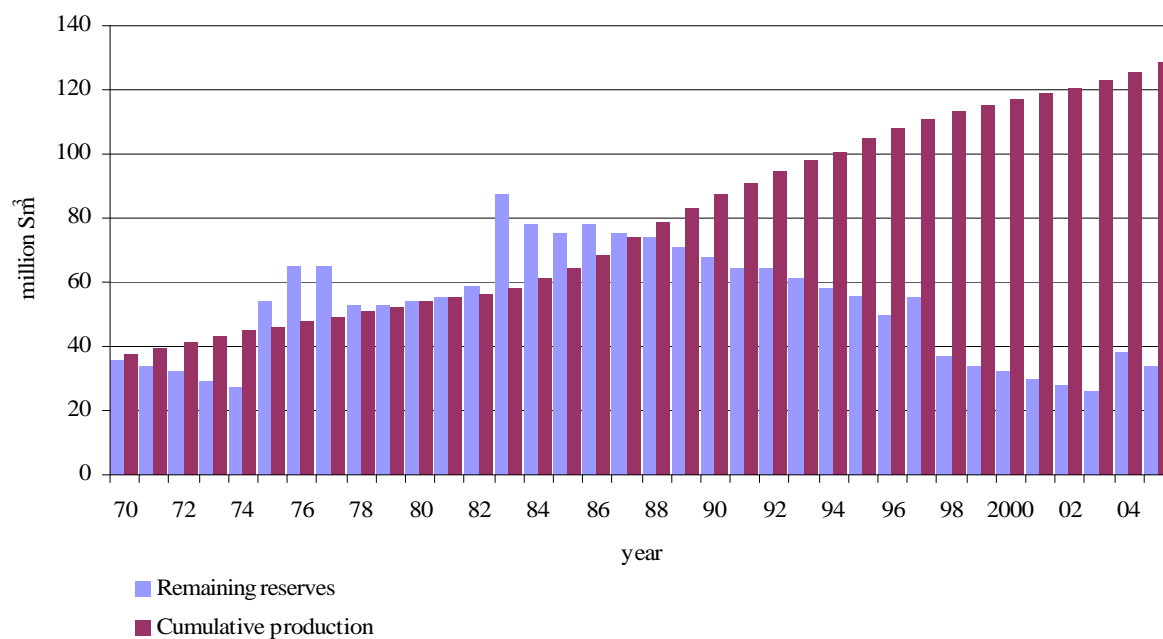
Oil production, 1960 – 2004



OIL RESERVES AND CUMULATIVE PRODUCTION in million Sm³

Year	Territory	Continental Shelf		Total		
		expected reserves	cumulative production	expected reserves	cumulative production	
as at 1 January	expected reserves	cumulative production	expected reserves	cumulative production	expected reserves	cumulative production
1970	36	37.3	-	-	36	37.3
71	34	39.3	-	-	34	39.3
72	32	41.2	-	-	32	41.2
73	29	42.9	-	-	29	42.9
74	27	44.6	-	-	27	44.6
1975	40	46.2	14	-	54	46.2
76	51	47.7	14	-	65	47.7
77	49	49.2	16	-	65	49.2
78	46	50.7	7	-	53	50.7
79	44	52.2	9	-	53	52.2
1980	43	53.7	11	-	54	53.7
81	41	55.1	14	-	55	55.1
82	39	56.5	20	-	59	56.5
83	38	58.1	49	0.2	87	58.3
84	37	59.7	41	1.4	78	61.1
1985	41	61.2	34	3.3	75	64.5
86	42	62.5	36	6.1	78	68.6
87	40	63.9	35	10.0	75	73.9
88	41	65.1	33	13.6	74	78.7
89	39	66.5	32	16.6	71	83.1
1990	41	67.7	27	19.3	68	87.0
91	40	69.0	24	22.0	64	91.0
92	38	70.1	26	24.6	64	94.7
93	37	71.4	24	26.5	61	97.9
94	35	72.7	23	28.2	58	100.9
1995	34	73.9	22	31.0	56	104.9
96	33	75.0	17	33.2	50	108.1
97	33	75.8	22	34.9	55	110.8
98	12	76.7	25	36.5	37	113.2
99	8	77.5	26	37.7	34	115.2
2000	7	78.2	25	38.9	32	117.1
01	6	79.0	24	39.8	30	118.8
02	5	79.5	23	40.9	28	120.4
03	5	79.9	23	43.1	28	123.0
04	21	80.3	17	45.4	38	125.7
2005	19	80.7	15	47.1	34	128.2

Oil reserves and cumulative production in million Sm³ 1970 - 2005



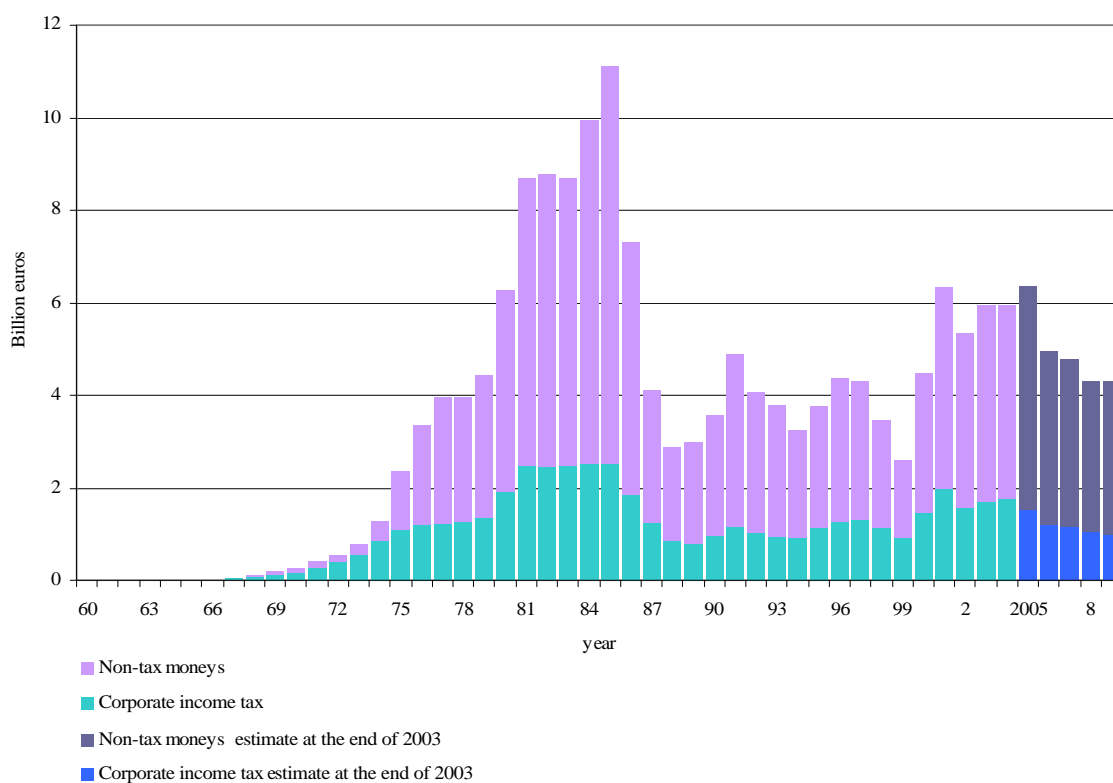
NATURAL GAS REVENUES 1960 – 2009

Year	Non-tax moneys* (10⁹ €)	Corporate income tax (10⁹ €)	Total (10⁹ €)
1960	0	0	0
61	0	0	0
62	0	0	0
63	0	0	0
64	0	0	0
1965	0	0	0
66	0	0.01	0.01
67	0.01	0.04	0.05
68	0.02	0.07	0.09
69	0.05	0.14	0.19
1970	0.09	0.18	0.27
71	0.14	0.27	0.41
72	0.14	0.41	0.55
73	0.23	0.54	0.77
74	0.41	0.86	1.27
1975	1.27	1.09	2.36
76	2.18	1.18	3.36
77	2.72	1.23	3.95
78	2.68	1.27	3.95
79	3.09	1.36	4.45
1980	4.36	1.91	6.27
81	6.22	2.45	8.67
82	6.35	2.45	8.8
83	6.22	2.45	8.67
84	7.40	2.54	9.94
1985	8.58	2.54	11.12
86	5.45	1.86	7.31
87	2.86	1.23	4.09
88	2.00	0.86	2.86
89	2.18	0.78	2.96
1990	2.61	0.96	3.57
91	3.72	1.17	4.89
92	3.04	1.02	4.06
93	2.83	0.95	3.78
94	2.34	0.91	3.25
1995	2.64	1.13	3.77
96	3.10	1.26	4.36
97	3.01	1.30	4.31
98	2.33	1.12	3.45
99	1.69	0.92	2.61
2000	3.02	1.47	4.49
01	4.36	1.97	6.33
02	3.72	1.55	5.27
03	4.24	1.70	5.94

04	4.61	1.79	6.39
2005	4.80	1.55	6.35
06	3.75	1.20	4.95
07	3.65	1.15	4.80
08	3.25	1.05	4.30
09	3.30	1.00	4.30

* Non-tax moneys consist of: bonus, surface rentals, royalties, the State profit share, the special payments to the State on production from the Groningen field and the profit distributed by Energie Beheer Nederland B.V., the participant in the production on behalf of the State.

Natural gas revenues, 1960 – 2009



AUTHORITIES CONCERNED WITH MINING OPERATIONS

Ministry of Economic Affairs, Energy Production Directorate

Aims at ...

- Reliable, efficient, cleaner production and conversion of energy in the Netherlands
- Optimal development of the natural resources available in the Netherlands
- Sustainable use of the deep subsurface

Trough ...

- Mutual co-ordination of energy-production and environmental and town-and-country-planning policies
- Ensuring a good business climate, in both national and international terms
- Ensuring a stable mining climate
- Production and optimal use of available natural resources
- Effective and efficient implementation of mining legislation
- Ensuring payments from production of minerals are received
- Research and development in the fields of nuclear energy and radioactive waste
- Balanced conditions for production and conversion of energy
- Stimulating the application of renewable energy sources, e.g. by supporting research, development and exhibitions
- Removal of administrative impediments to the application of renewable energy

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Netherlands Institute of Applied Geoscience - *National Geological Survey* (TNO-NITG)

The task of TNO-NITG is to advise the Minister on geological matters, in particular those relating to exploration for and production of natural resources. TNO-NITG also maintains, interprets and processes the data that become available during the exploration for and production of natural resources or otherwise.

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State Supervision of Mines (Staatstoezicht op de Mijnen) (a department of the Ministry of Economic Affairs)

The State Supervision of Mines supervises reconnaissance surveys, exploration and production activities concerning natural resources and geothermal energy and underground storage. In addition, the State Supervision of Mines advises on mining operations and licences and is entrusted with enforcing part of the mining legislation

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DEFINITIONS OF SELECTED TERMS

Territory or Netherlands territory:

in this review, territory and Netherlands territory denotes: the Netherlands mainland and that part of the Netherlands territorial waters located on the landward side of the line referred to in article 1, sub c, of the Mining Act.

Continental Shelf:

in this review, Continental Shelf denotes: that part of the Continental Shelf over which the Kingdom of the Netherlands has sovereign rights and which is located on the seaward side of the line referred to in article 1, sub c, of the Mining Act.

Reconnaissance licence:

a licence to carry out a reconnaissance survey on the Continental Shelf; as from the 1 January 2003 a reconnaissance survey is only required for certain areas.

Exploration licence:

a licence to carry out exploration for the mineral resources specified in the licence.

Production licence:

a licence to produce the mineral resources specified in the licence, and also to carry out exploration for these mineral resources.

Seismic surveying:

this review differentiates between 2D and 3D seismic techniques. Two-dimensional seismic surveying has a long tradition in the oil industry. This seismic technique is based on vibrations that are generated along a line on the earth's surface. These vibrations penetrate the earth's crust and are reflected by the layers within the crust. Geophones or hydrophones record the reflections. Because the vibrations do not always propagate solely in the vertical plane underneath the recording line, the representations of geological structures in 2D seismic sections only approximate the real situation. This approximation is far better for a 3D seismic survey, in which a large number of recording lines are positioned close together in a relatively small surface area. Modern electronic data processing makes it possible to correct for deviations of the wave fronts that are not in the vertical plane underneath an individual recording line, and thus permits generating an accurate model of the geological structures at any desired location.

Wells:

- exploration well (or wildcat): a well to explore a prospective underground accumulation of oil and/or gas
- appraisal well: a well drilled in order to establish the volume and extent of a reservoir after an exploration well has found hydrocarbons;
- development well: a well drilled in order to produce the reservoir;

Gas field/oil field:

A natural, isolated accumulation of gas and/or oil in a subsurface reservoir consisting of a porous rock that is capped or enclosed by an impermeable rock. In this review, the terms reservoir, field and accumulation are used as synonyms.

Reserves (categories and definitions):

In the following definitions, natural gas and oil are referred to collectively as hydrocarbons.

1 Gas/Oil Initially in Place

The total volume of hydrocarbons in a reservoir that is initially (originally) present in a reservoir. This volume is calculated on the basis of the mean values of the parameters used in the calculations.

2 Expected Initial Reserves

The total volume of hydrocarbons in a reservoir that is estimated to be ultimately recoverable. This volume is calculated on the basis of the mean values of the parameters used in the calculations.

3 Proven Initial Reserves

The volume of hydrocarbons in a reservoir that is estimated to be ultimately recoverable, with an expectation-curve probability of 90%.

4 Remaining Expected Reserves

That part of the expected initial reserves remaining after subtraction of the cumulative production, i.e. the total volume of hydrocarbons produced from the reservoir concerned by the end of the year under review.

5 Remaining Proven Reserves

The volume - based on the 90% expectation-curve value - of hydrocarbons that can still be extracted from a reservoir. This volume is calculated by subtracting the cumulative production from the Proven Initial Reserves.

The term 'expected' in the definitions above should be interpreted in the statistical sense of the word. The stated figure represents the expected value. The following explanation may be useful. All data that are used for the purpose of calculating volumes have an intrinsic uncertainty. By processing these uncertainties statistically, an expectation curve can be determined for each accumulation. This is a cumulative probability distribution curve, i.e. a graph in which reserve values are plotted against the associated probabilities that these values will be achieved or exceeded. As production from a hydrocarbon reservoir progresses, several uncertainties decrease and the expected value will deviate less and less from the 50% value on the cumulative probability distribution curve. In practice, the stated reserves of a given field are the expected values. This is the most realistic estimate available of the volume of hydrocarbons actually present in a reservoir.

The recoverability of hydrocarbons from an accumulation is determined by the geological and reservoir characteristics of that accumulation, the recovery techniques available at the reporting date, and the economic conditions prevailing at that time.

Probabilistic summation of the proven reserves:

In this method, the probability distributions of the reserves of the individual fields are combined. This way, the uncertainties inherent to all reserve estimates are accounted for. The result of applying the

probabilistic summation method is that the total figure obtained for the proven reserves according to the definition, now indeed represents the proven proportion of total Dutch reserves in a statistically more reliable manner. In other words, there is a 90% probability that reserves will actually exceed the value stated.

Units:

Standard m³: Natural gas and oil reserves are expressed in m³ at a pressure of 101.325 kPa (or 1.01325 bar) and 15°C. This m³ is defined as Standard m³ in Standard no. 5024-1976(E) of the International Organization for Standardization (ISO), and is normally abbreviated to Sm³.

Groningen gas equivalent: For the purpose of performing calculations with volumes of natural gas of varying qualities, these are converted to a Groningen gas equivalent. This is achieved by converting a volume of gas from an accumulation that produces a different quality of gas, to a (fictitious) volume of gas of the quality of the Groningen accumulation (35.17 Megajoules upper value per m³ of 0°C and 101.325 kPa, or 1.01325 bar).

One Nm³ gas that has a calorific value of 36.5 MJ equals 36.5/35.17 m³ Groningen gas equivalent (Geg)

The term Groningen gas equivalent is also commonly used by the N.V. Nederlandse Gasunie.

Figures stated in Groningen gas equivalent can be converted simply into equivalents for other fuels, such as Tons Oil Equivalent (TOE) and Coal Equivalent (CE).

Fuel name	Expressed in	Giga Joules	Giga calories	Oil equiv. tonnes	Oil equiv. barrels	Coal equivalent tonnes	Natural Gas equivalent 1,000 m³
Firewood (dry)	tonnes	13.51	3.23	0.32	2.36	0.46	0.43
Coal	tonnes	29.30	7.00	0.70	5.11	1.00	0.93
Lignite	tonnes	17.00	4.06	0.41	2.96	0.58	0.54
Cokes	tonnes	28.50	6.81	0.68	4.97	0.97	0.90
Cokes oven gas	1,000 m ³	17.60	4.20	0.42	3.07	0.60	0.56
Blast furnace gas	1,000 m ³	3.80	0.91	0.09	0.66	0.13	0.12
Crude oil	tonnes	42.70	10.20	1.02	7.45	1.46	1.35
Oil equivalent	tonnes	41.87	10.00	1.00	7.30	1.43	1.32
Refinery gas	1,000 m ³	46.10	11.01	1.10	8.04	1.57	1.46
LPG	1,000 m ³	45.20	10.79	1.08	7.88	1.54	1.43
Naphtha	tonnes	44.00	10.51	1.05	7.67	1.50	1.39
Jet fuel	tonnes	43.49	10.39	1.04	7.58	1.48	1.37
Gasoline	tonnes	44.00	10.51	1.05	7.67	1.50	1.39
Kerosene	tonnes	43.11	10.29	1.03	7.52	1.47	1.36
Light fuel oil	tonnes	42.70	10.20	1.02	7.45	1.46	1.35
Heavy fuel oil	tonnes	41.00	9.79	0.98	7.15	1.40	1.30
Petroleum cokes	tonnes	35.20	8.41	0.84	6.14	1.20	1.11
Natural gas	1,000 m ³	31.65	7.56	0.76	5.52	1.08	1.00
Electricity *	MWh	3.60	0.86	0.09	0.63	0.12	0.11

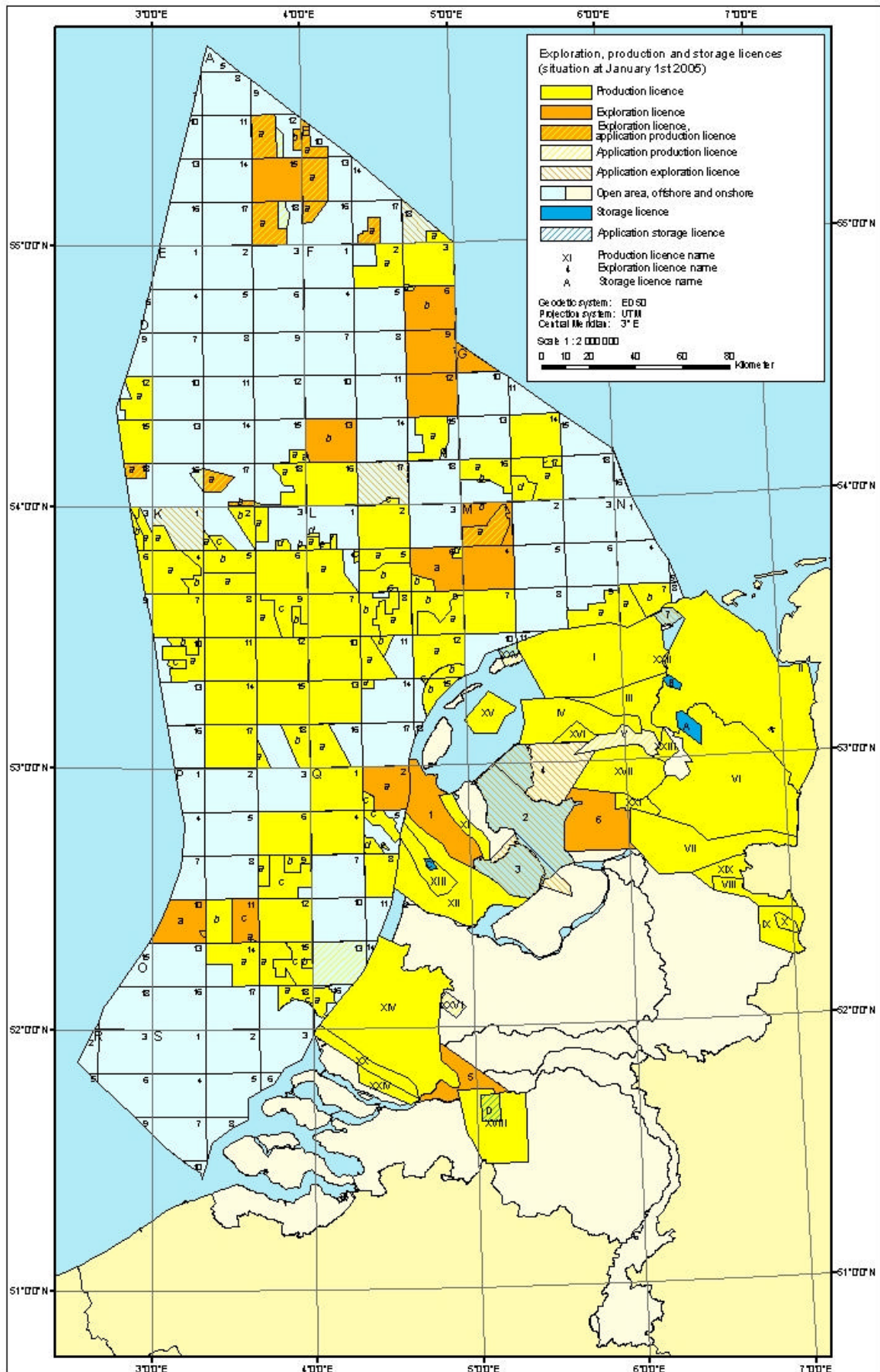
*In this energy conversion table, the energy value of an MWh electricity is to be understood as the energy content of a generated unit of electricity. In order to produce this unit of energy, more energy is necessary. The amount of energy required depends on the efficiency of the conversion.

APPENDICES

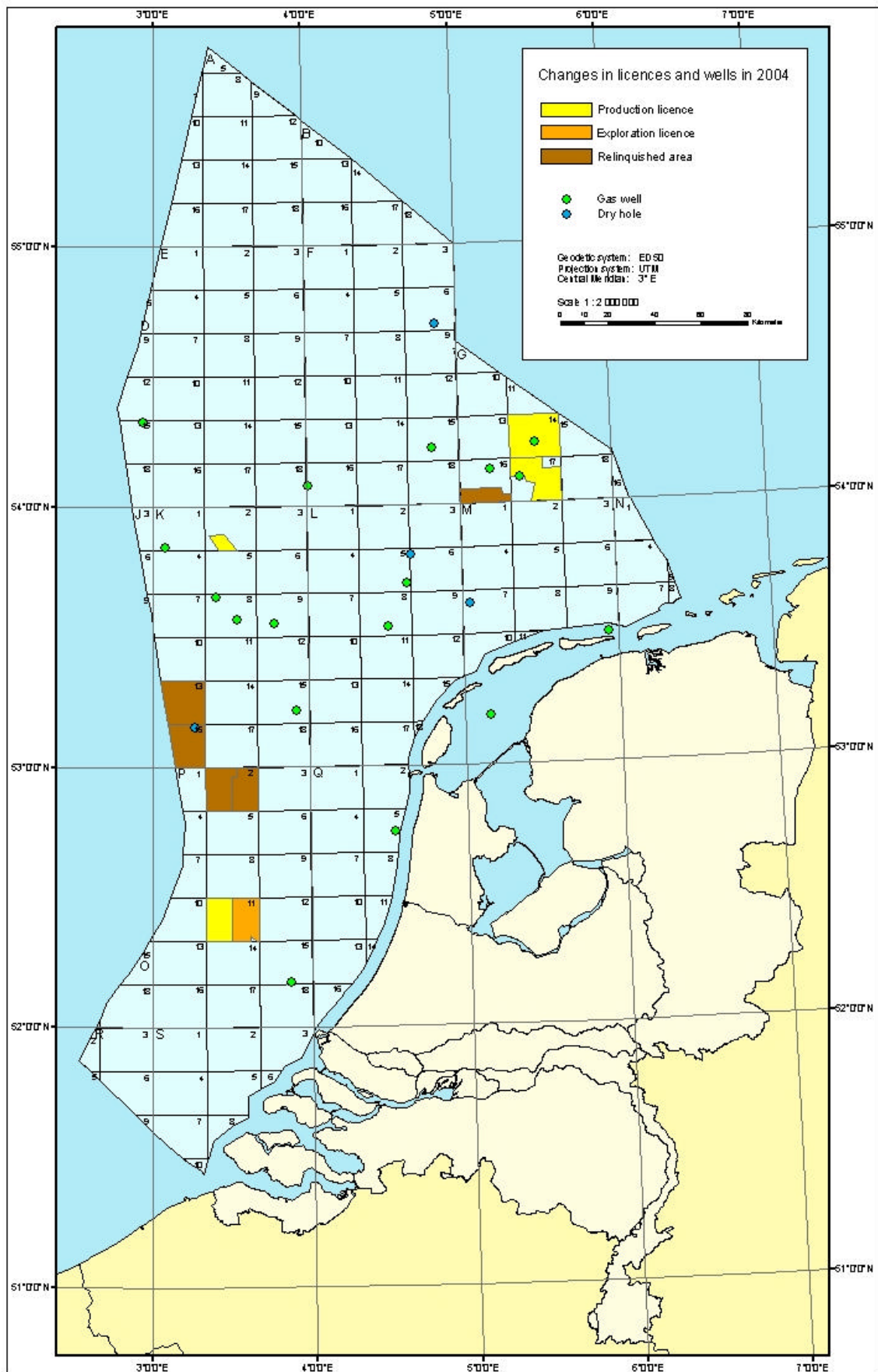
Exploration and production licences as at 1 January 2005

Names of the exploration, production and storage licences, Netherlands Territory, as indicated on the map on opposite page.

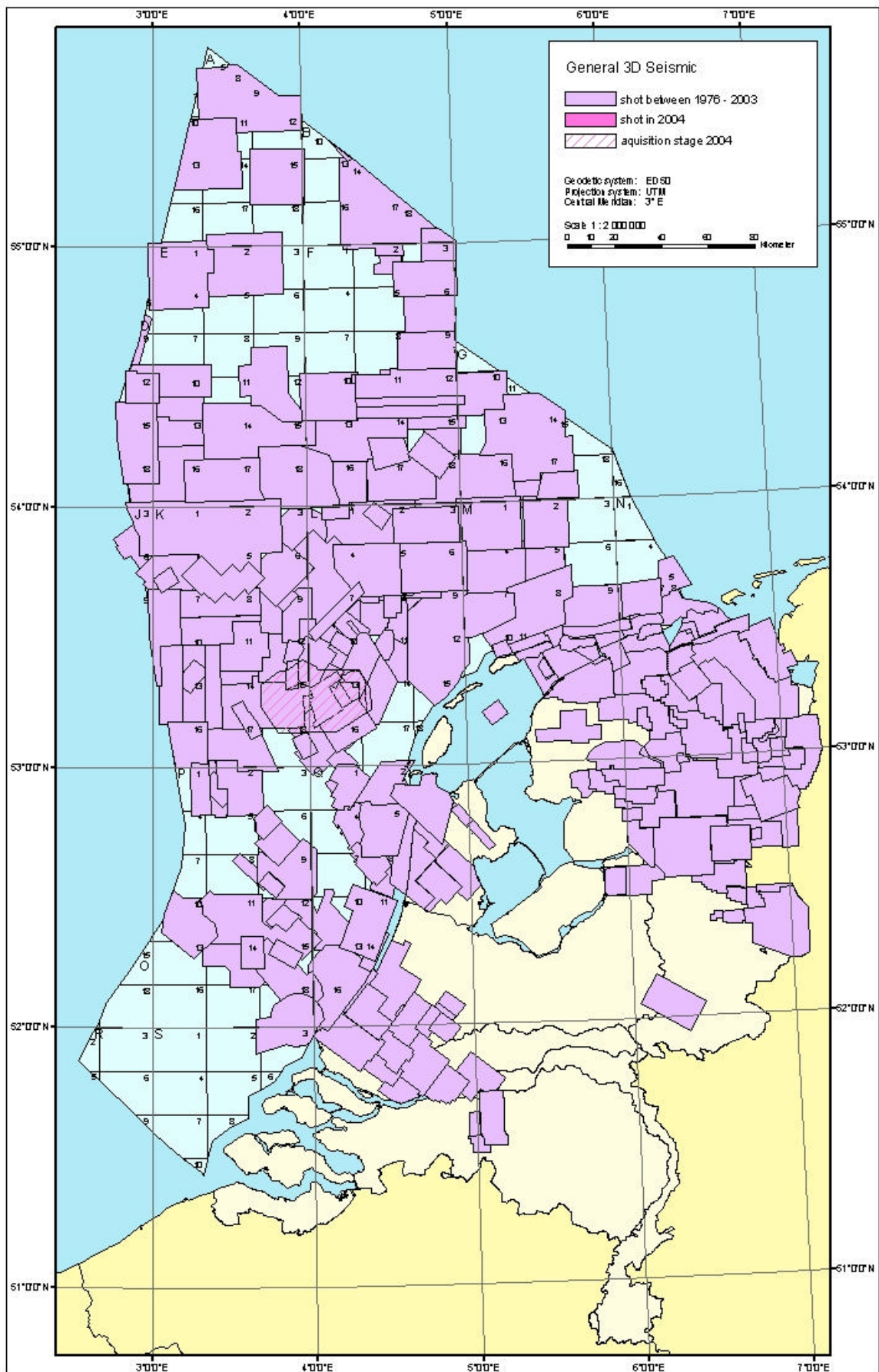
Exploration licence		Production licence	
1	Schagen	I	Noord-Friesland
2	IJsselmeer	II	Groningen
3	Markerwaard	III	Tietjerksteradeel
4	Zuid-Friesland II	IV	Leeuwarden
5	Andel II	VI	Drenthe
6	Lemmer-Marknesse	VII	Schoonebeek
		VIII	Tubbergen
		IX	Twenthe
		X	Rossum-de Lutte
		XI	Slootdorp
		XII	Middelie
		XIII	Bergen
		XIV	Rijswijk
		XV	Zuidwal
		XVI	Oosterend
		XVII	Gorredijk
		XVIII	Waalwijk
		XIX	Hardenberg
		XX	Botlek
		XXI	Steenwijk
		XXII	De Marne
		XXIII	Donkerbroek
		XXIV	Beijerland
Application for exploration licence		Application for production licence	
7	Schiermonnikoog-Noord	V	Akkrum
		XXV	Terschelling
		XXVI	Papekop
Storage licence			
A	Norg		
B	Grijpskerk		
C	Alkmaar		



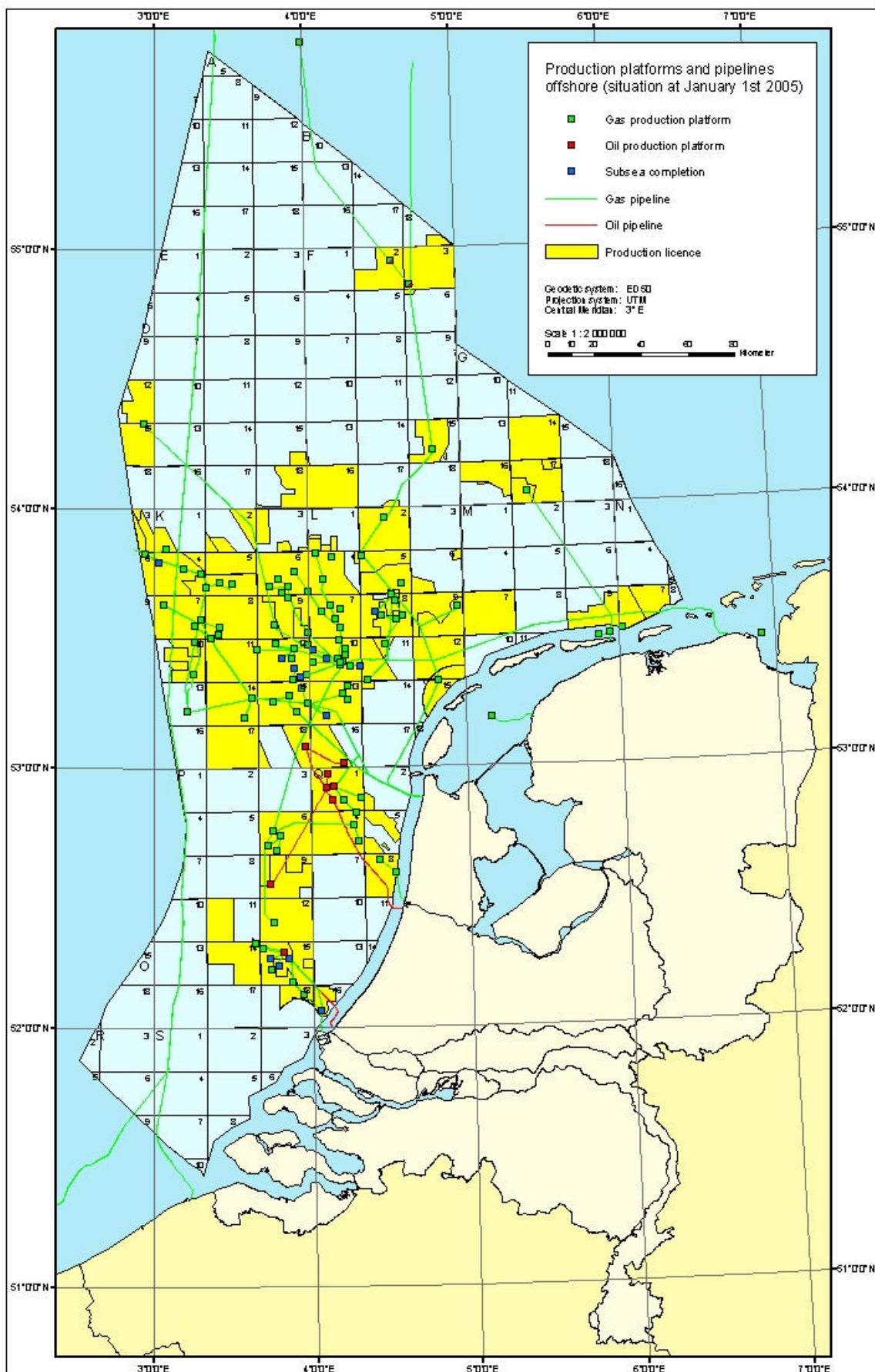
Changes in licences and wells during 2004



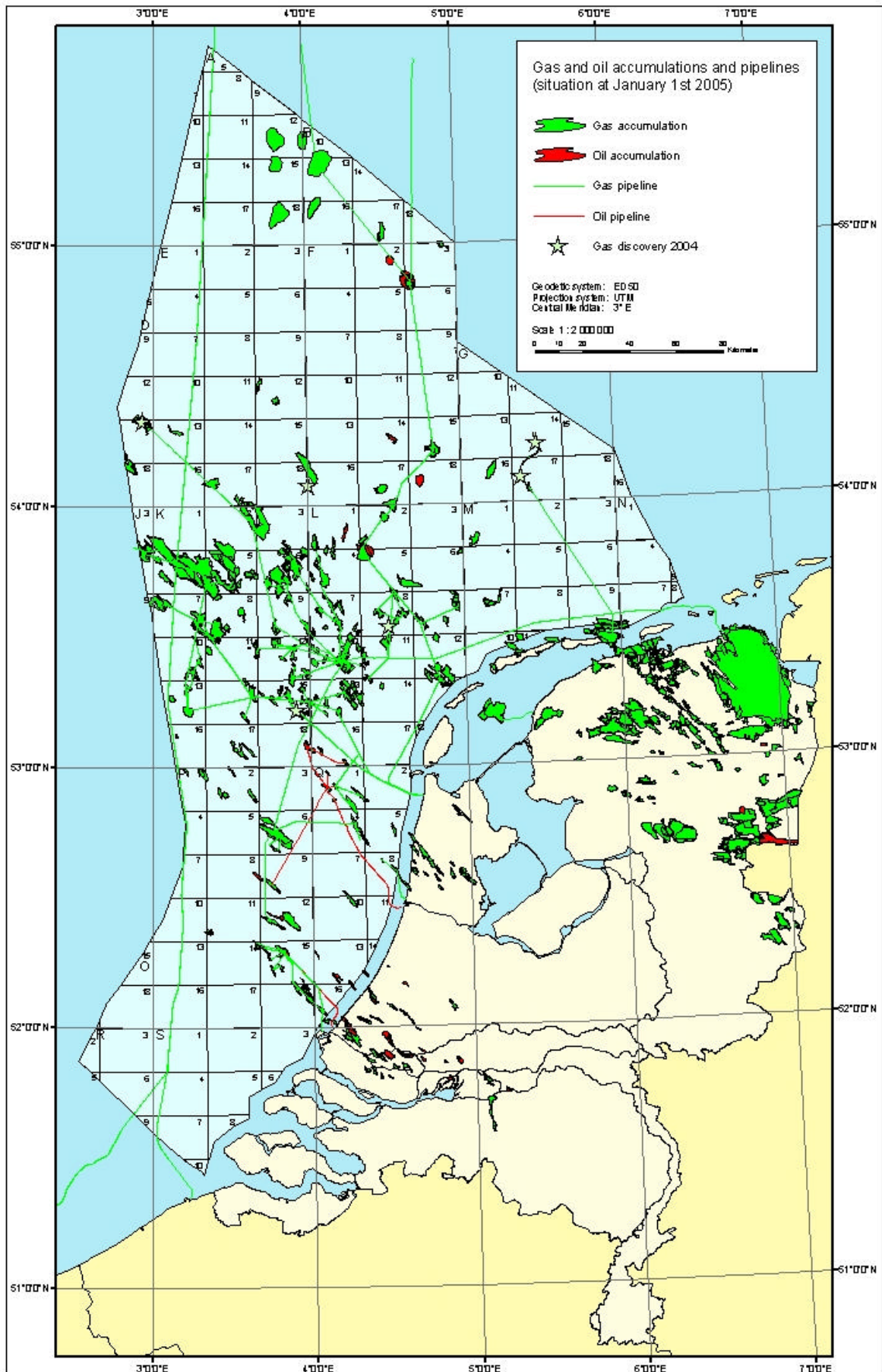
Summary of 3D seismic surveys



Production platforms and pipelines



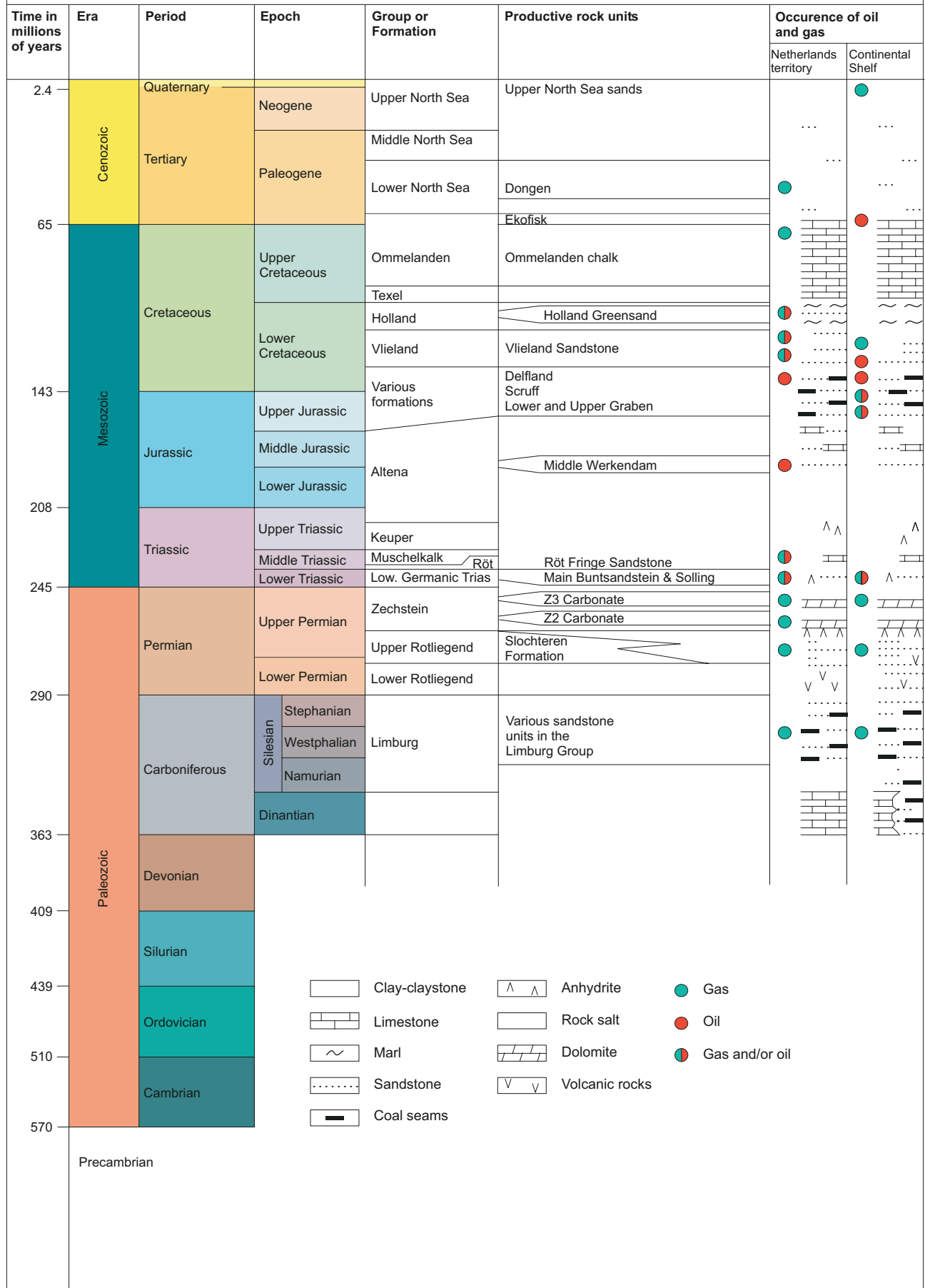
Gas and oil accumulations and pipelines as at 1 January 2005



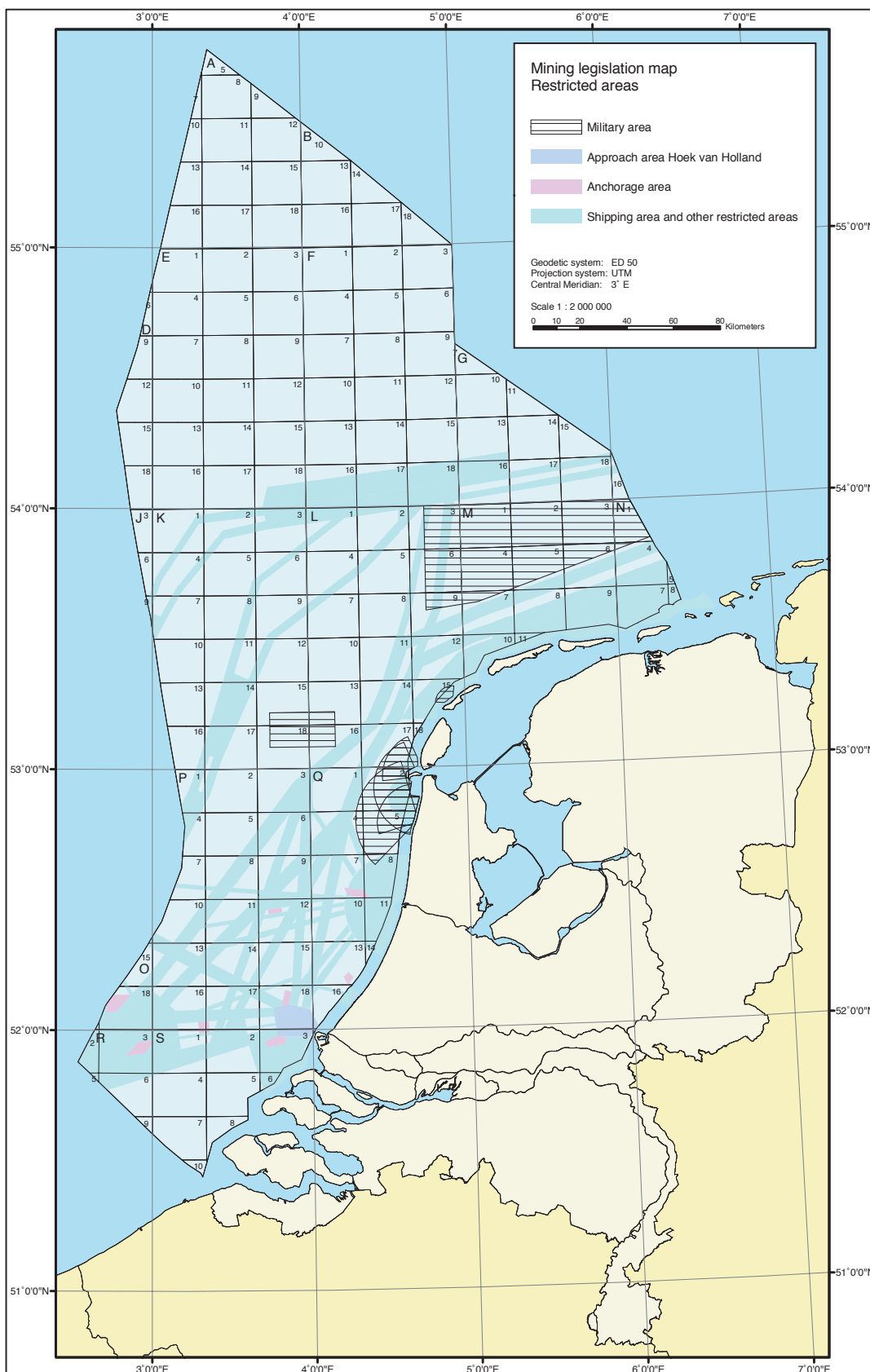
Geological time scale

Geological time scale

with composite stratigraphic column
of the Netherlands and the Continental Shelf

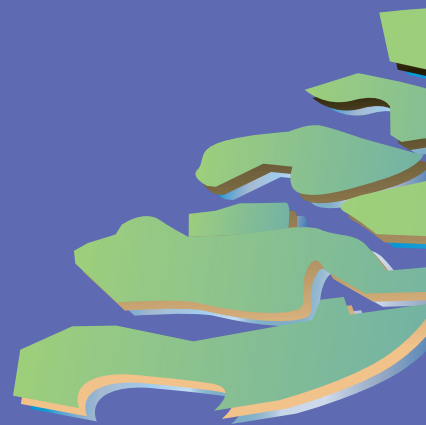


Mining Legislation Map





Ministry of Economic Affairs
Directorate-General for Competition and Energy
June 2005



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