

Hydrocarbon reserves.

The reserves are defined as those amounts of hydrocarbons that are anticipated will be recovered commercially of accumulations known a given date. Consequently, the concept of reserves constitutes only the recoverable and exploitable part of the oil resources in a certain time.

By as much, it is important to clarify that some of the nonrecoverable parts of the original volume of hydrocarbons can be considered like reserves, depending on the economic, technological conditions, or of another nature, that gets to turn them recoverable volumes.

The Proved Reserves or 1P Reserves, are defined as the volume of hydrocarbons or substances associated, evaluated to atmospheric conditions and under present economic conditions, that are considered will be commercially recoverable in a specific date, with a reasonable certainty, derived from the analysis of geologic information and engineering. Within the proved reserves two types exist:

- 1) Developed, those that are expected are recovered of existing wells with the present infrastructure and moderate costs of investment; and
- 2) Undeveloped, that is defined as the volume that is hoped to produce with infrastructure and in future wells.

Now well, within the proven reserves two types also exist:

- 1) Probable reserves and
- 2) Possible reserves.

The first are constituted by those volumes of hydrocarbons, whose analysis of the geologic information and engineering suggests are more feasible of being commercially recoverable. If statistical methods for their evaluation are used a probability of at least 50% will exist that the amounts to recover are equal or greater to the sum of the proven reserves plus the probable ones. The 2P reserves, therefore, are constituted by the sum of the proven reserves plus the probable ones.

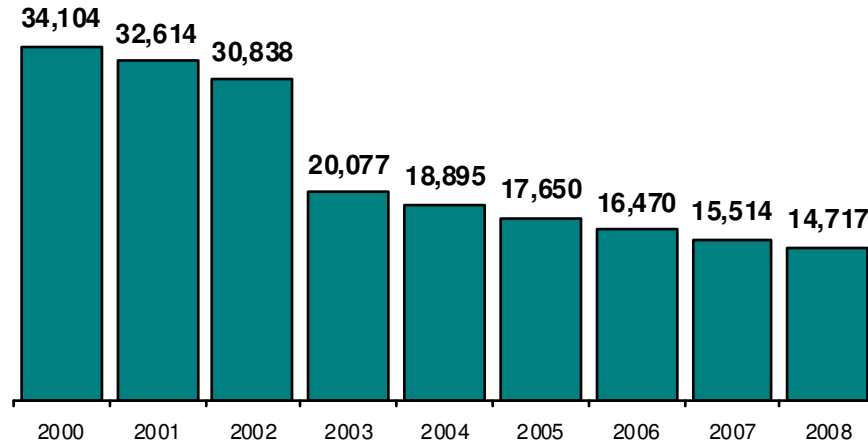
The second, however, are characterized to have a commercial recovery, considered from geologic information and engineering, minor who in the case of the probable reserves. Thus, if statistical methods are used, the sum of the proven reserves, probable plus the possible ones will have at least one probability of 10% that the amounts really recovered are equal or greater.

Consequently, the 3P reserves calculate from the sum of the proved plus probable plus possible reserves.

Hydrocarbon Reserves as of January 1, 2008

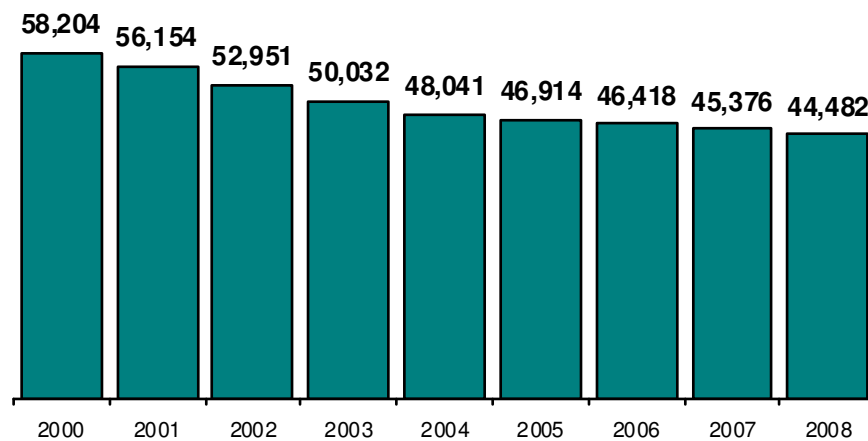
Hydrocarbons

Proven Hydrocarbon reserves, 2000-2008
million barrels of oil equivalent



- Proved reserves (1P) of hydrocarbons as of January 1, 2008 ascend to 14.717 million barrels of oil equivalent (mmboe), those that compared with the 15.514 mmboe of 2007 register a diminution of 797 mmboe.

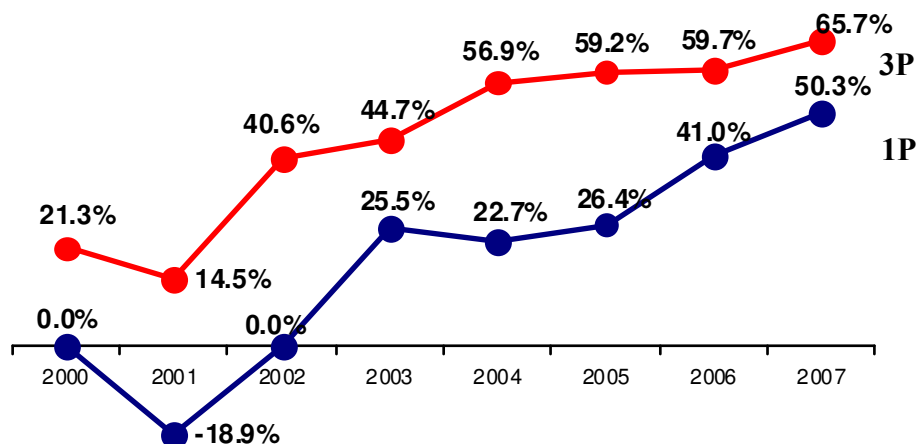
Reserves 3P of Hydrocarbons, 2000-2008
Million barrels of oil equivalent



- 3P reserves (proved + probable + possible) of hydrocarbons ascend to 44.482 mmboe, which register a diminution of 894 mmboe with respect to the 45.376 mmboe of the previous year.

Reserves Replacement Rate of Hydrocarbons, 2000-2007

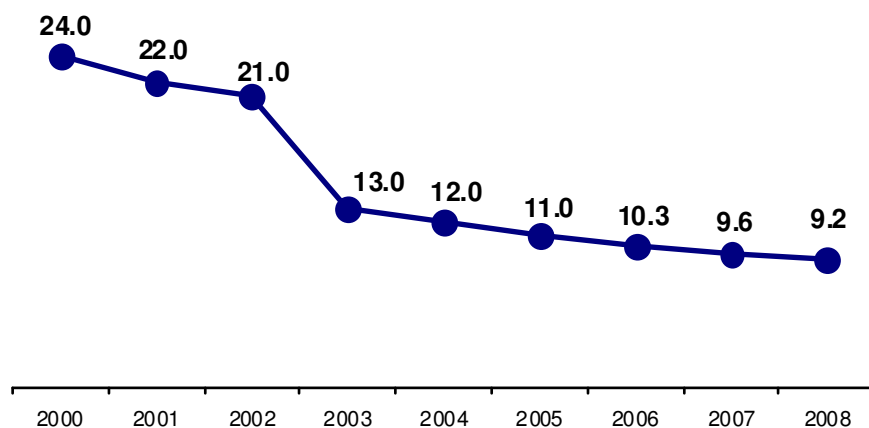
Percentage



- Compared with the date of the year previous, the 3P reserves replacement rate changed from 59,7% to 65,7% (only discoveries) in 2007, whereas corresponding to 1P reserves happened from 41,0% to 50,3%, including new discoveries, revisions and reclassifications.
- To 3P reserves 1.053 mmboe were gotten up by discoveries.
- To 2P reserves 675 mmboe were gotten up by discoveries.
- To 1P reserves 700 mmboe were gotten up; 517 mmboe by reclassifications, revisions and new discoveries.

Proved hydrocarbons reserves-production ratio, 2000-2008

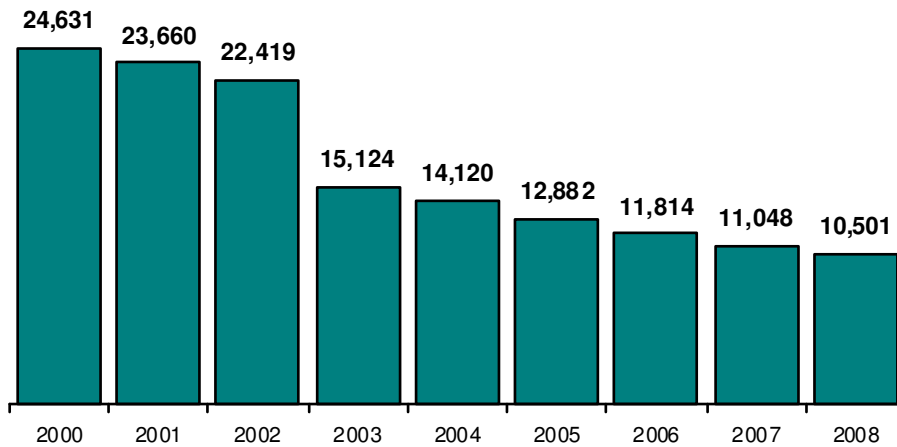
years



- With these results, the reserve-production ratio for the 1P reserves changed of 9.6 to 9.2 years; corresponding to the 2P reserves happened of 19.0 to 18.6 years and the 3P it changed of 28.0 to 27.7 years.

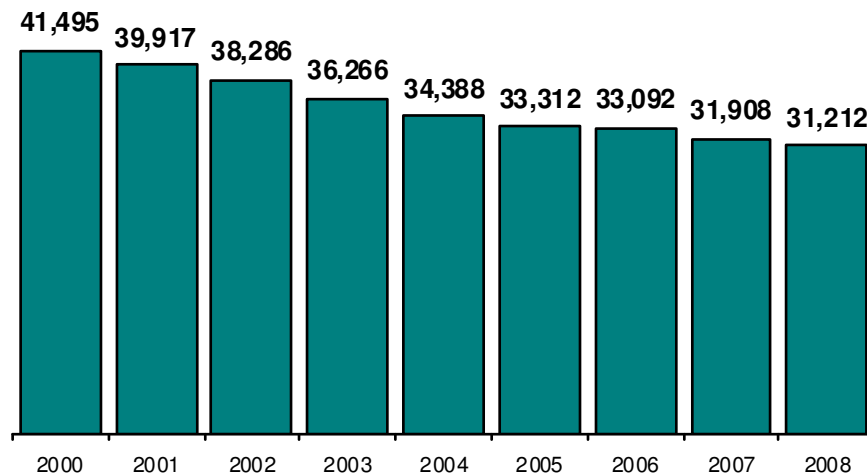
Crude oil

Proved Crude Oil Reserves, 2000-2008
Million barrels of oil



- **Proved reserves of crude oil as of January 1, 2008** ascend to 10,501 million barrels (mmb), that compared with the 11.047 mmb of 2007 register a diminution of 546 mmb.

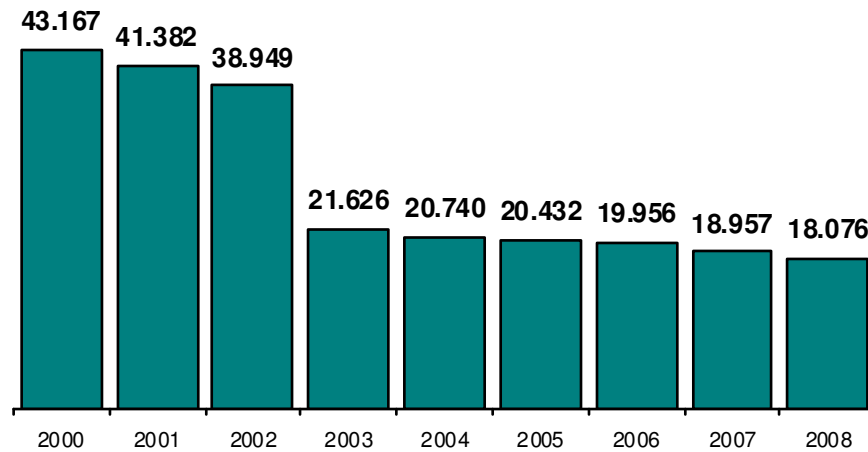
3P Reserves of crude oil, 2000-2008
million barrels



- 3P reserves (proved + probable + possible) of crude oil ascend to 31,212 mmb, which register a diminution of 696 mmb with respect to the 31,908 mmb of the previous year.
- With these results, the reserve-production ratio for the 1P reserves of crude oil stayed in 9.3 years, whereas the results of the 3P reserves happened of 26,8 to 27,7 years.

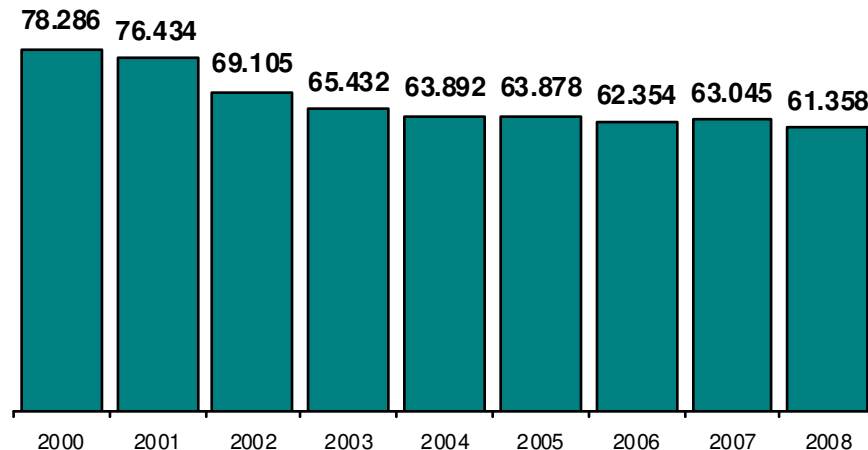
Natural Gas

Proved Natural Gas Reserves, 2000-2008
trillion cubic feet



- Proved reserves of natural gas as of January 1, 2008 ascend to 18.076 trillions of cubic feet (mmmmpc), that compared with the 18,957 mmmmpc of 2007 register a diminution of 0,881 mmmmpc

Total (3P) Natural Gas Reserves, 2000-2008
Trillions of cubic feet



- 3P reserves (proved + probable + possible) of natural gas ascend to 61,358 trillions of cubic feet (mmmmpc), which register a diminution of 1,687 mmmmpc with respect to the 63,045 mmmmpc of the previous year.
- With these results, the reserve-production ratio for the 1P reserves of natural gas happened of 9.7 to 8.2 years, whereas the 3P reserves happened of 32.3 to 27.8 years.

HISTORICAL EVOLUTION OF THE HYDROCARBON RESERVES

Million barrels of oil equivalent

Year	Reserves to Beginning of year	Discoveries	Developments and delineations	Revisions	Production	Reserves to End of year
3P						
2008	44,482.7					
2007	45,376.3	1,053.2	16.5	-360.1	-1,603.2	44,482.7
2006	46,417.5	966.1	123.1	-512.2	-1,618.2	45,376.3
2005	46,914.1	950.2	562.2	-404.7	-1,604.2	46,417.5
2004	48,041.0	916.2	234.9	-667.1	-1,610.8	46,914.1
2003	50,032.2	708.8	-185.1	-928.0	-1,587.0	48,041.0
2002	52,951.0	611.8	-602.5	-1,420.6	-1,507.5	50,032.2
2P						
2008	29,861.6					
2007	30,771.6	675.4	413.6	-395.8	-1,603.2	29,861.6
2006	32,258.1	412.1	206.5	-486.8	-1,618.2	30,771.6
2005	33,485.9	276.6	498.7	-398.8	-1,604.2	32,258.1
2004	34,900.3	462.8	334.3	-600.7	-1,610.8	33,485.9
2003	37,042.2	435.4	35.9	-1,026.2	-1,587.0	34,900.3
2002	42,700.0	342.4	-316.4	-4,176.3	-1,507.5	37,042.2
1P						
2008	14,717.2					
2007	15,514.2	182.8	517.4	106.0	-1,603.2	14,717.2
2006	16,469.6	182.9	999.2	-519.3	-1,618.2	15,514.2
2005	17,649.8	136.8	335.8	-48.6	-1,604.2	16,469.6
2004	18,895.2	240.8	335.8	-211.2	-1,610.8	17,649.8
2003	20,077.3	151.7	281.7	-28.5	-1,587.0	18,895.2
2002	30,837.5	124.8	-96.2	-9,281.4	-1,507.5	20,077.3

The sums cannot agree by I clear of the numbers.

Source: Hydrocarbon Reserves of Mexico, PEMEX Exploration and Production, several years.

ANNUAL VARIATION OF THE HYDROCARBON RESERVES
percentage

	Variation with respect to the previous year	Rate of restitution		Reserve/Production Ratio (years)
		Only discoveries	Additions, revisions and developments	
3P				
2008	-2.0			
2007	-2.2	65.7	44.2	27.7
2006	-1.1	59.7	35.7	28.0
2005	-2.3	59.2	69.0	28.9
2004	-4.0	57.0	30.0	29.1
2003	-5.5	44.7	-25.5	30.3
2002		40.6	-93.6	33.2
2P				
2008	-3.0			
2007	-4.6	42.1	43.2	18.6
2006	-3.7	25.5	8.1	19.0
2005	-4.1	17.2	23.5	20.1
2004	-5.8	28.7	12.2	20.8
2003	-13.2	27.4	-35.0	22.0
2002		22.7	-275.3	24.6
1P				
2008	-5.1			
2007	-5.8	11.4	50.3	9.2
2006	-6.7	11.3	41.0	9.6
2005	-6.6	8.5	26.4	10.3
2004	-5.9	14.9	22.7	11.0
2003	-34.9	9.6	25.5	11.9
2002		8.3	-613.8	13.3

The sums cannot agree by I clear of the numbers.

Source: Hydrocarbon Reserves of Mexico, PEMEX Exploration and Production, several years..