



Catalogue no. 26-213-XIE

# Oil and Gas Extraction

2005



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April 2007

Catalogue no. 26-213-XIE

ISSN 1703-4930

Frequency: Annual

Ottawa

La version française de cette publication est disponible sur demande (n° 26-213-XIF au catalogue).

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# User information

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## Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0<sup>s</sup> value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- E use with caution
- F too unreliable to be published

## Note to users

Due to resource limitations, capital and operating expenditures estimates shown in text table 1, table 1, and table 3 are compiled from the largest operators. These businesses are believed to account for 98% of the total economic activity of the industry.

## Acknowledgements

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## Highlights

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- The value of marketable production from crude oil, natural gas and natural gas liquids surpassed, for the first time ever, the \$100 billion mark, reaching \$108.4 billion for 2005, up roughly 26% over 2004.
- After rising 6.5% in 2004, total well completions in 2005 rose moderately 8.4% to reach a new record level of 26,951.
- Capital expenditures in the conventional sector rose by 30% in 2005 to a new high of \$34.8 billion.
- In Canada's oil sands region, the continuing development of non-conventional resources, through in-situ, mining and upgrader, led to an overall explosion in capital expenditures of 68.8% to \$10.4 billion from the \$6.2 billion in 2004. This marks the first year that capital expenditures in the non-conventional oil sector have gone over \$10 billion.

# Analysis

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## Volumes — Tables 7 and 8

During 2005, the marketable production of crude oil and equivalent in Canada decreased 2.0%, to 146.2 million cubic metres from 149.2 million cubic metres in 2004. The production of both conventional (-3.5%) and non-conventional crude oil (-0.4%) declined in 2005. Production of crude bitumen rose to 35.3 million cubic metres in 2005, an increase of 14.5% over the 30.9 million cubic metres produced in 2004. Meanwhile, due to major temporary shut downs, synthetic crude oil production was down 17.7% in 2005. The production of marketable natural gas rose slightly by 2% to 170.7 billion cubic metres in 2005 from 167.5 billion cubic metres in 2004.

Exports of Canadian natural gas to the U.S. increased 1% to 106.3 billion cubic metres in 2005, continuing a second consecutive year of increase from 105.3 billion cubic metres in 2004.

Exports of crude oil and equivalent to the U.S. decreased by 2.4%, to 90.9 million cubic metres from 93.1 million cubic metres in 2004.

Demand by refineries for domestically produced crude oil and equivalent decreased 4.6% in 2005, to 53.6 million cubic metres from 56.1 million cubic metres in 2004. Crude oil imports decreased slightly in 2005 by 1% to 53.8 million cubic metres from 54.3 million cubic metres in 2004.

Domestic sales of natural gas (including direct sales) fell by 2.8% in 2005, declining to 70.1 billion cubic metres from 72 billion cubic metres in 2004. Natural gas imports declined by 12.3% in 2005, to 9.5 billion cubic meters from a high of 10.9 billion cubic meters in 2004.

## Values — Tables 4 and 5

In 2005, the total value of marketable production of hydrocarbons (including synthetic crude oil, natural gas, natural gas liquids, and elemental sulphur) rose by 25.8% to \$108.4 billion from \$85.2 billion in 2004. World prices for all crude oil and natural gas commodities were on the upswing during the year.

The value of crude oil and condensate (including pentanes plus) increased by 21.2% to \$49.2 billion compared to \$40.6 billion in 2004, and natural gas rose 34.1% to \$51.1 billion from \$38.1 billion last year. The value of natural gas processing plant products (propane, butane and ethane) increased by 26.9% to \$7.9 billion from \$6.3 billion, and elemental sulphur (from natural gas) increased to \$228 million from last year's level of \$207.5 million (an increase of 9.9%)

The Province of Alberta continued to dominate the overall value of marketable production in 2005, accounting for 74.4%, or \$80.6 billion of the total 108.4 billion.

## Expenditures — Conventional sector — Table 3

Operating expenditures (classified here as expenditures relating to field and well operations, natural gas processing and re-processing plant operations, taxes (excluding income taxes), other operating expenditures and royalties) increased by 24.7% in 2005, to \$27.8 billion from \$22.3 billion in 2004. This year, royalty payments accounted for 57%, field and well operations 34.5%, natural gas processing plants 6.8%, and taxes 1.7%.

The capital expenditures (classified as expenditures relating to geological and geophysical operations, exploration drilling, land acquisition and rentals, development drilling, production facilities, enhanced recovery and pressure maintenance, natural gas plant and other) increased markedly in 2005 to \$34.8 billion from \$26.8 billion in 2004. Exploration expenditures increased by 35.7% and development spending rose by 27.8%, for an overall increase



of 29.8% in capital spending this year compared to 2004. Higher commodities prices were the main drivers behind this jump in activity.

The above expenditures exclude the non-conventional regions of Alberta and Saskatchewan containing the heavy oils and oilsands. These locations require very high inputs of capital necessary extract the oil. See Text Table 1 for expenditure details relating to this sector.

### **Drilling — Table 2**

There was a substantial increase in the total number of well completions (oil, gas, dry and others) during 2005, rising by 8.4% to 26,951 wells from 24,874 completions in 2004. Exploratory drilling rose by 7.3% during the year to 5,915 completions from 5,515 wells, and development drilling increased by 8% to 17,799 wells from 16,475 completions. During 2005, the number of successful oil wells completed rose significantly to 5,482 compared to 4,526 completions last year, a 21% increase. Successful gas well completions rose slightly by 5.3% to 15,931 wells compared to 15,126 gas wells completed last year.

### **Reserves — Table 6 and text table 2**

Remaining established reserves of conventional crude oil and equivalent (excluding oilsands and bitumen) increased by year-end 2005 to 898,646,000 cubic metres from 762,495,000 cubic metres in 2004. The reserves replacement, or gross additions, amounted to roughly 253% of the volume of crude and equivalent produced during 2005. At this current rate of production, Canada's reserves of conventional crude oil and equivalent have an estimated economic life (reserves life index) of 10.1 years, up significantly over 2004 due to additional reserves found in the White Rose and Hibernia fields on the East coast.

Synthetic Crude oil and developed bitumen reserves are currently estimated to be 1,366,568,000 cubic metres, an increase of 16.6% over 2004. The reserves replacement (gross additions versus production) amounted to 441%, and its reserve life index stands at 23.9 years, up from 2004.

Marketable natural gas established reserves increased slightly to 1,633 billion cubic metres from 1,593 billion cubic metres in the previous year. The volume of gross additions, by development drilling, replacing the production amounted to 122.5%. Based upon the amount of remaining established reserves and at the current level of production, the economic life of these reserves stands at 9.3 years, a marginal increase over 2004. Non-conventional natural gas prospects, such as coal bed methane and tight sands gas, continue to be extensive as field research heightens.

**Text table 1**  
**Non-conventional oil sector expenditures**

	In-situ	Mining	Upgraders	Total non-conventional expenditures 2004	Cumulative 1947 to 2005
millions of dollars					
<b>Capital expenditures</b> Including land acquisition and retention costs, exploratory and delineation drilling, research and development, fixed installations, machinery and equipment, housing and pollution control equipment	4,191.4	6,018.5	227.3	10,437.2	58,152.9
<b>Operating costs</b> Including taxes, royalties, administration expense, other operating expenses	1,212.3	4,595.6	316.0	6,123.9	60,298.8
<b>Total expenditures</b>	<b>5,403.7</b>	<b>10,614.1</b>	<b>543.3</b>	<b>16,561.1</b>	<b>118,451.7</b>

**Text table 2**  
**Developed non-conventional oil reserves, 2005**

	Mining – Integrated synthetic crude oil	In-situ bitumen
thousands of cubic metres		
<b>Remaining reserves at 31<sup>st</sup> of December 2004</b>	<b>841,235</b>	<b>330,868</b>
Gross additions in 2005	163,633	87,940
Reserves at 31 <sup>st</sup> of December 2004 plus 2005 gross additions	1,004,868	418,808
Less 2005 net production <sup>1</sup>	31,553	25,555
<b>Remaining reserves at 31<sup>st</sup> of December 2005</b>	<b>973,315</b>	<b>393,253</b>
Net change in reserves during 2005	132,080	62,385

1. Preliminary estimate.

Source(s): Canadian Association of Petroleum Producers.

**Text table 3**  
**Value added, non-conventional oil sector<sup>1</sup>, 2005**

	Value of marketable production	Cost of fuel, electricity, materials and supplies	Value added – Producing activity
millions of dollars			
Canada	17,619.8	..	..

1. Represents synthetic crude and crude bitumen producers.

**Text table 4**  
**Royalty allocation**

	2005	2004	2003	2002	2001	2000
	millions of dollars					
<b>Total royalties, Canada <sup>1</sup></b>	<b>15,822.3</b>	<b>11,824.9</b>	<b>10,503.0</b>	<b>7,968.0</b>	<b>12,106.3</b>	<b>11,129.3</b>
Federal crown royalties	19.9	24.1	30.0	21.8	42.9	18.9
Provincial crown royalties	13,590.1	10,152.7	9,008.2	6,642.9	9,628.3	8,854.8
Non-crown royalties and other	2,212.3	1,648.1	1,464.8	1,303.3	2,435.1	2,255.6

1. Net applicable incentive credits; excludes synthetic crude oil royalties.

## Related products

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### Selected publications from Statistics Canada

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45-004-X	The Supply and Disposition of Refined Petroleum Products in Canada
55-201-X	Pipeline Transportation of Crude Oil and Refined Petroleum Products
57-003-X	Report on Energy Supply-demand in Canada
57-205-X	Natural Gas Transportation and Distribution
57-601-X	Energy Statistics Handbook

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### Selected CANSIM tables from Statistics Canada

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153-0001	Value of established natural gas reserves, annual
153-0002	Value of established crude oil reserves, annual
153-0013	Established crude oil reserves, annual
153-0014	Established natural gas reserves, annual

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### Selected surveys from Statistics Canada

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2178	Oil and Gas Extraction
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# Statistical tables

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**Table 1**  
**Principal statistics<sup>1</sup>, oil and gas extraction, conventional sector**

	Establishments	Producing activity			Value Added
		Cost of electricity	Cost of materials and supplies and fuel	Value of marketable production	
	number	thousands of dollars			
1994	671	513,980	1,547,755	21,871,403	19,809,668
1995	728	545,102	1,596,515	20,817,680	18,676,063
1996	703	584,824	1,672,073	26,707,674	24,450,777
1997	711	..	..	27,183,922	..
1998	761	..	..	22,628,989	..
1999	756	..	..	30,632,888	..
2000	738	..	..	55,967,429	..
2001	709	..	..	56,272,820	..
2002	697	..	..	48,513,608	..
2003	670	..	..	65,336,356	..
<b>2004</b>					
Newfoundland and Labrador	3	..	..	0	..
Prince Edward Island	2	..	..	0	..
Nova Scotia	3	..	..	0	..
New Brunswick	5	..	..	0	..
Quebec	5	..	..	0	..
Ontario	14	..	..	133,692	..
Manitoba	18	..	..	195,637	..
Saskatchewan	153	..	..	7,277,577	..
Alberta	322	..	..	48,446,703	..
British Columbia	96	..	..	6,788,032	..
Nunavut	0	..	..	0	..
Northwest Territories	22	..	..	517,823	..
Yukon	4	..	..	33,945	..
Arctic Islands	0	..	..	0	..
<b>Offshore</b>					
Newfoundland	11	..	..	5,651,960	..
Nova Scotia	16	..	..	1,305,184	..
West	0	..	..	0	..
<b>Total</b>	<b>674</b>	..	..	<b>70,350,553</b>	..
<b>2005</b>					
Newfoundland and Labrador	3	..	..	0	..
Prince Edward Island	2	..	..	0	..
Nova Scotia	3	..	..	0	..
New Brunswick	4	..	..	0	..
Quebec	6	..	..	0	..
Ontario	14	..	..	158,165	..
Manitoba	17	..	..	327,057	..
Saskatchewan	157	..	..	8,809,851	..
Alberta	324	..	..	62,994,012	..
British Columbia	104	..	..	9,123,893	..
Nunavut	0	..	..	0	..
Northwest Territories	23	..	..	580,531	..
Yukon	5	..	..	45,953	..
Arctic Islands	0	..	..	0	..
<b>Offshore</b>					
Newfoundland	12	..	..	7,021,189	..
Nova Scotia	13	..	..	1,737,093	..
West	0	..	..	0	..
<b>Total</b>	<b>687</b>	..	..	<b>90,797,744</b>	..
Percentage change					
2005/2004	1.9	..	..	29.1	..
2004/2003	-4.9	..	..	25.0	..

1. Excludes establishments engaged in the non-conventional sector. See text table 2

**Table 2**  
**Drilling completions**

	Oil				Gas			
	2004		2005		2004		2005	
	number	metres	number	metres	number	metres	number	metres
<b>Canada</b>								
Exploratory wells <sup>1</sup>	633	795,730	698	1,069,296	3,249	3,972,339	3,437	4,687,153
Development wells	3,177	4,124,165	3,512	4,952,407	11,877	10,883,369	12,494	12,860,143
Other <sup>2</sup>	716	831,726	1,272	1,582,005	0	0	0	0
<b>Total</b>	<b>4,526</b>	<b>5,751,621</b>	<b>5,482</b>	<b>7,603,708</b>	<b>15,126</b>	<b>14,855,708</b>	<b>15,931</b>	<b>17,547,296</b>
<b>Eastern Canada</b>								
Exploratory wells <sup>1</sup>	2	763	0	0	27	16,545	7	7,340
Development wells	13	49,801	8	24,142	58	40,011	29	26,006
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>15</b>	<b>50,564</b>	<b>8</b>	<b>24,142</b>	<b>85</b>	<b>56,556</b>	<b>36</b>	<b>33,346</b>
<b>Offshore Newfoundland</b>								
Exploratory wells <sup>1</sup>	0	0	0	0	0	0	0	0
Development wells	9	43,809	4	18,698	0	0	0	0
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>9</b>	<b>43,809</b>	<b>4</b>	<b>18,698</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Offshore Nova Scotia</b>								
Exploratory wells <sup>1</sup>	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	1	5,315	3	16,425
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>5,315</b>	<b>3</b>	<b>16,425</b>
<b>Newfoundland and Labrador</b>								
Exploratory wells <sup>1</sup>	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Prince Edward Island</b>								
Exploratory wells <sup>1</sup>	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Nova Scotia</b>								
Exploratory wells <sup>1</sup>	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>New Brunswick</b>								
Exploratory wells <sup>1</sup>	0	0	0	0	0	0	2	5,054
Development wells	0	0	0	0	0	0	0	0
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>5,054</b>
<b>Quebec</b>								
Exploratory wells <sup>1</sup>	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Ontario</b>								
Exploratory wells <sup>1</sup>	2	763	0	0	27	16,545	5	2,286
Development wells	4	5,992	4	5,444	57	34,696	26	9,581
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>6</b>	<b>6,755</b>	<b>4</b>	<b>5,444</b>	<b>84</b>	<b>51,241</b>	<b>31</b>	<b>11,867</b>
<b>Western Canada</b>								
Exploratory wells <sup>1</sup>	631	794,967	698	1,069,296	3,222	3,955,794	3,430	4,679,813
Development wells	3,164	4,074,364	3,504	4,928,265	11,819	10,843,358	12,465	12,834,137
Other <sup>2</sup>	716	831,726	1,272	1,582,005	0	0	0	0
<b>Total</b>	<b>4,511</b>	<b>5,701,057</b>	<b>5,474</b>	<b>7,579,566</b>	<b>15,041</b>	<b>14,799,152</b>	<b>15,895</b>	<b>17,513,950</b>

See footnotes at the end of the table.

Table 2 – continued

## Drilling completions

	Oil				Gas			
	2004	2004	2005	2005	2004	2004	2005	2005
	number	metres	number	metres	number	metres	number	metres
<b>Manitoba</b>								
Exploratory wells <sup>1</sup>	13	13,050	40	39,813	0	0	0	0
Development wells	101	102,013	209	221,121	0	0	0	0
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>114</b>	<b>115,063</b>	<b>249</b>	<b>260,934</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Saskatchewan</b>								
Exploratory wells <sup>1</sup>	313	301,134	269	332,597	592	409,207	456	322,999
Development wells	1,440	1,679,165	1,705	2,301,662	1,395	822,495	1,122	667,264
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1,753</b>	<b>1,980,299</b>	<b>1,974</b>	<b>2,634,259</b>	<b>1,987</b>	<b>1,231,702</b>	<b>1,578</b>	<b>990,263</b>
<b>Alberta</b>								
Exploratory wells <sup>1</sup>	296	469,974	386	692,581	2,380	3,153,395	2,781	4,029,679
Development wells	1,551	2,197,585	1,563	2,367,273	9,896	9,069,622	10,487	10,511,817
Other <sup>2</sup>	716	831,726	1,272	1,582,005	0	0	0	0
<b>Total</b>	<b>2,563</b>	<b>3,499,285</b>	<b>3,221</b>	<b>4,641,859</b>	<b>12,276</b>	<b>12,223,017</b>	<b>13,268</b>	<b>14,541,496</b>
<b>British Columbia</b>								
Exploratory wells <sup>1</sup>	8	7,745	3	4,305	245	380,621	193	327,135
Development wells	72	95,601	27	38,209	527	949,589	856	1,655,056
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>80</b>	<b>103,346</b>	<b>30</b>	<b>42,514</b>	<b>772</b>	<b>1,330,210</b>	<b>1,049</b>	<b>1,982,191</b>
<b>Northwest Territories</b>								
Exploratory wells <sup>1</sup>	1	3,064	0	0	5	12,571	0	0
Development wells	0	0	0	0	1	1,652	0	0
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1</b>	<b>3,064</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>14,223</b>	<b>0</b>	<b>0</b>

See footnotes at the end of the table.



**Table 2 – continued**  
**Drilling completions**

	Abandoned and suspended				Total			
	2004		2005		2004		2005	
	number	metres	number	metres	number	metres	number	metres
<b>Canada</b>								
Exploratory wells <sup>1</sup>	1,633	2,216,223	1,780	2,476,003	5,515	6,984,292	5,915	8,232,452
Development wells	1,421	1,749,690	1,793	2,203,110	16,475	16,757,224	17,799	20,015,660
Other <sup>2</sup>	128	173,151	164	116,174	2,884	1,658,154	3,237	2,453,355
<b>Total</b>	<b>3,182</b>	<b>4,139,064</b>	<b>3,737</b>	<b>4,795,287</b>	<b>24,874</b>	<b>25,399,670</b>	<b>26,951</b>	<b>30,701,467</b>
<b>Eastern Canada</b>								
Exploratory wells <sup>1</sup>	10	26,040	13	17,595	39	43,348	20	24,935
Development wells	5	7,086	25	10,769	76	96,898	62	60,917
Other <sup>2</sup>	0	0	0	0	22	48,085	17	32,556
<b>Total</b>	<b>15</b>	<b>33,126</b>	<b>38</b>	<b>28,364</b>	<b>137</b>	<b>188,331</b>	<b>99</b>	<b>118,408</b>
<b>Offshore Newfoundland</b>								
Exploratory wells <sup>1</sup>	0	0	1	3,201	0	0	1	3,201
Development wells	0	0	0	0	9	43,809	4	18,698
Other <sup>2</sup>	0	0	0	0	11	41,581	6	29,508
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>3,201</b>	<b>20</b>	<b>85,390</b>	<b>11</b>	<b>51,407</b>
<b>Offshore Nova Scotia</b>								
Exploratory wells <sup>1</sup>	4	19,974	1	3,700	4	19,974	1	3,700
Development wells	0	0	0	0	1	5,315	3	16,425
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>4</b>	<b>19,974</b>	<b>1</b>	<b>3,700</b>	<b>5</b>	<b>25,289</b>	<b>4</b>	<b>20,125</b>
<b>Newfoundland and Labrador</b>								
Exploratory wells <sup>1</sup>	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Prince Edward Island</b>								
Exploratory wells <sup>1</sup>	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Nova Scotia</b>								
Exploratory wells <sup>1</sup>	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>New Brunswick</b>								
Exploratory wells <sup>1</sup>	1	2,560	5	7,832	1	2,560	7	12,886
Development wells	0	0	1	3,450	0	0	1	3,450
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1</b>	<b>2,560</b>	<b>6</b>	<b>11,282</b>	<b>1</b>	<b>2,560</b>	<b>8</b>	<b>16,336</b>
<b>Quebec</b>								
Exploratory wells <sup>1</sup>	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Ontario</b>								
Exploratory wells <sup>1</sup>	5	3,506	6	2,862	34	20,814	11	5,148
Development wells	5	7,086	24	7,319	66	47,774	54	22,344
Other <sup>2</sup>	0	0	0	0	11	6,504	11	3,048
<b>Total</b>	<b>10</b>	<b>10,592</b>	<b>30</b>	<b>10,181</b>	<b>111</b>	<b>75,092</b>	<b>76</b>	<b>30,540</b>
<b>Western Canada</b>								
Exploratory wells <sup>1</sup>	1,623	2,190,183	1,767	2,458,408	5,476	6,940,944	5,895	8,207,517
Development wells	1,416	1,742,604	1,768	2,192,341	16,399	16,660,326	17,737	19,954,743
Other <sup>2</sup>	128	173,151	164	116,174	2,862	1,610,069	3,220	2,420,799
<b>Total</b>	<b>3,167</b>	<b>4,105,938</b>	<b>3,699</b>	<b>4,766,923</b>	<b>24,737</b>	<b>25,211,339</b>	<b>26,852</b>	<b>30,583,059</b>

See footnotes at the end of the table.

**Table 2 – continued**  
**Drilling completions**

	Abandoned and suspended				Total			
	2004	2004	2005	2005	2004	2004	2005	2005
	number	metres	number	metres	number	metres	number	metres
<b>Manitoba</b>								
Exploratory wells <sup>1</sup>	12	11,027	8	7,465	25	24,077	48	47,278
Development wells	7	7,130	3	2,845	108	109,143	212	223,966
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>19</b>	<b>18,157</b>	<b>11</b>	<b>10,310</b>	<b>133</b>	<b>133,220</b>	<b>260</b>	<b>271,244</b>
<b>Saskatchewan</b>								
Exploratory wells <sup>1</sup>	127	130,226	97	103,799	1,032	840,567	822	759,395
Development wells	196	185,562	44	38,892	3,031	2,687,222	2,871	3,007,818
Other <sup>2</sup>	0	0	0	0	41	48,842	88	105,866
<b>Total</b>	<b>323</b>	<b>315,788</b>	<b>141</b>	<b>142,691</b>	<b>4,104</b>	<b>3,576,631</b>	<b>3,781</b>	<b>3,873,079</b>
<b>Alberta</b>								
Exploratory wells <sup>1</sup>	1,349	1,804,462	1,605	2,261,171	4,025	5,427,831	4,772	6,983,431
Development wells	1,072	1,281,788	1,650	2,040,418	12,519	12,548,995	13,700	14,919,508
Other <sup>2</sup>	128	173,151	164	116,174	2,821	1,561,227	3,127	2,308,766
<b>Total</b>	<b>2,549</b>	<b>3,259,401</b>	<b>3,419</b>	<b>4,417,763</b>	<b>19,365</b>	<b>19,538,053</b>	<b>21,599</b>	<b>24,211,705</b>
<b>British Columbia</b>								
Exploratory wells <sup>1</sup>	126	224,258	49	73,938	379	612,624	245	405,378
Development wells	139	265,189	69	107,143	738	1,310,379	952	1,800,408
Other <sup>2</sup>	0	0	0	0	0	0	5	6,167
<b>Total</b>	<b>265</b>	<b>489,447</b>	<b>118</b>	<b>181,081</b>	<b>1,117</b>	<b>1,923,003</b>	<b>1,202</b>	<b>2,211,953</b>
<b>Northwest Territories</b>								
Exploratory wells <sup>1</sup>	9	20,210	8	12,035	15	35,845	8	12,035
Development wells	2	2,935	2	3,043	3	4,587	2	3,043
Other <sup>2</sup>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>11</b>	<b>23,145</b>	<b>10</b>	<b>15,078</b>	<b>18</b>	<b>40,432</b>	<b>10</b>	<b>15,078</b>

1. Includes new field wildcats, new pool wildcats, deeper pool tests, shallower pool tests and outposts.

2. Includes stratigraphic tests, project wells, bitumen wells, miscellaneous and service wells.

Source(s): Canadian Association of Petroleum Producers.

Table 3-1

## Net cash expenditures of the conventional petroleum industry — Net cash expenditures of the conventional petroleum industry, 2004

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta
thousands of dollars									
<b>Exploration</b>									
Geological and geophysical operations	40	2,480	152	564	834	1,943	1,670	46,847	632,179
Drilling	400	0	974	6,307	1,694	18,240	14,084	300,257	2,784,855
Land acquisitions and rentals <sup>1</sup>	450	44	22	2	237	3,016	2,077	90,929	1,211,500
<b>Total</b>	<b>890</b>	<b>2,524</b>	<b>1,148</b>	<b>6,873</b>	<b>2,765</b>	<b>23,199</b>	<b>17,831</b>	<b>438,033</b>	<b>4,628,534</b>
<b>Development</b>									
Drilling	0	0	0	0	0	28,556	49,195	1,009,804	8,376,416
Production facilities <sup>2</sup>	0	0	0	180	0	9,590	15,217	464,242	4,667,708
Enhanced recovery and pressure maintenance	0	0	0	0	0	74	0	35,531	141,474
Natural gas plants	0	0	0	0	0	0	0	27,884	542,995
Non-production facilities	0	74	0	0	0	28	36	6,360	178,037
<b>Total</b>	<b>0</b>	<b>74</b>	<b>0</b>	<b>180</b>	<b>0</b>	<b>38,248</b>	<b>64,448</b>	<b>1,543,821</b>	<b>13,906,630</b>
<b>Operating</b>									
Field and well operations	0	0	0	424	59	14,757	24,430	1,324,724	5,629,410
Natural gas processing plants	0	0	0	100	0	27,188	0	57,289	1,273,554
Taxes (excluding income tax)	0	0	0	0	3	328	2,484	54,829	340,553
Other operating expenses	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>524</b>	<b>62</b>	<b>42,273</b>	<b>26,914</b>	<b>1,436,842</b>	<b>7,243,517</b>
<b>Royalties <sup>3</sup></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>382</b>	<b>0</b>	<b>19,119</b>	<b>26,546</b>	<b>1,221,661</b>	<b>8,789,900</b>
<b>Total expenditures</b>	<b>890</b>	<b>2,598</b>	<b>1,148</b>	<b>7,959</b>	<b>2,827</b>	<b>122,839</b>	<b>135,739</b>	<b>4,640,357</b>	<b>34,568,581</b>
	British Columbia	Nunavut	Northwest Territories	Yukon	Arctic Islands	Offshore			Canada
						New- foundland	Hudson Bay	Nova Scotia	
thousands of dollars									
<b>Exploration</b>									
Geological and geophysical operations	239,083	0	39,835	499	0	41,661	0	33,676	1,041,463
Drilling	640,282	0	139,169	93	0	3,315	0	173,994	4,083,664
Land acquisitions and rentals <sup>1</sup>	290,100	0	17,304	11	0	10,630	0	42,054	1,668,376
<b>Total</b>	<b>1,169,465</b>	<b>0</b>	<b>196,308</b>	<b>603</b>	<b>0</b>	<b>55,606</b>	<b>0</b>	<b>249,724</b>	<b>6,793,503</b>
<b>Development</b>									
Drilling	1,701,635	0	19,991	14,022	0	598,600	0	93,878	11,892,097
Production facilities <sup>2</sup>	828,722	0	78,893	291	0	531,238	0	302,686	6,898,767
Enhanced recovery and pressure maintenance	238	0	0	0	0	51,923	0	0	229,240
Natural gas plants	177,172	0	28,083	0	0	0	0	32,116	808,250
Non-production facilities	20,197	0	1,476	0	0	129	0	0	206,337
<b>Total</b>	<b>2,727,964</b>	<b>0</b>	<b>128,443</b>	<b>14,313</b>	<b>0</b>	<b>1,181,890</b>	<b>0</b>	<b>428,680</b>	<b>20,034,691</b>
<b>Operating</b>									
Field and well operations	842,586	0	53,196	3,453	0	350,799	0	108,072	8,351,910
Natural gas processing plants	238,902	0	4,177	1,836	0	0	0	40,553	1,643,599
Taxes (excluding income tax)	36,471	0	1,802	94	0	214	0	5,012	441,790
Other operating expenses	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1,117,959</b>	<b>0</b>	<b>59,175</b>	<b>5,383</b>	<b>0</b>	<b>351,013</b>	<b>0</b>	<b>153,637</b>	<b>10,437,299</b>
<b>Royalties <sup>3</sup></b>	<b>1,507,621</b>	<b>0</b>	<b>20,629</b>	<b>3,521</b>	<b>0</b>	<b>208,079</b>	<b>0</b>	<b>27,364</b>	<b>11,824,822</b>
<b>Total expenditures</b>	<b>6,523,009</b>	<b>0</b>	<b>404,555</b>	<b>23,820</b>	<b>0</b>	<b>1,796,588</b>	<b>0</b>	<b>859,405</b>	<b>49,090,315</b>

1. Includes bonuses, legal fees, filing fees, producing and non-producing acreage retention costs, bonuses paid for acquisition of freeholders' mineral rights, relevant land department salaries and overhead.

2. Includes tangible well and lease equipment and pipelines and related facilities.

3. Net of applicable incentive credits; excludes synthetic crude oil royalties.

Table 3-2

## Net cash expenditures of the conventional petroleum industry — Net cash expenditures of the conventional petroleum industry, 2005

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta
thousands of dollars									
<b>Exploration</b>									
Geological and geophysical operations	400	1,635	1,750	615	2,541	1,776	7,714	47,943	782,098
Drilling	2,482	4	350	12,600	7,050	9,182	26,650	314,863	3,999,896
Land acquisitions and rentals <sup>1</sup>	6	0	0	0	276	1,066	6,269	148,927	1,964,200
<b>Total</b>	<b>2,888</b>	<b>1,639</b>	<b>2,100</b>	<b>13,215</b>	<b>9,867</b>	<b>12,024</b>	<b>40,633</b>	<b>511,733</b>	<b>6,746,194</b>
<b>Development</b>									
Drilling	0	0	0	3,539	0	13,209	105,586	1,234,470	11,512,749
Production facilities <sup>2</sup>	0	0	0	17,090	0	10,061	20,412	537,150	5,545,242
Enhanced recovery and pressure maintenance	0	0	0	0	0	86	0	38,831	156,474
Natural gas plants	0	0	0	0	0	0	0	28,925	691,872
Non-production facilities	0	0	0	0	0	1,464	874	4,901	263,909
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,629</b>	<b>0</b>	<b>24,820</b>	<b>126,872</b>	<b>1,844,277</b>	<b>18,170,246</b>
<b>Operating</b>									
Field and well operations	0	0	0	446	100	14,300	30,097	1,534,378	6,444,410
Natural gas processing plants	0	0	0	200	0	27,603	0	65,114	1,474,422
Taxes (excluding income tax)	0	0	0	0	0	542	2,911	60,623	349,946
Other operating expenses	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>646</b>	<b>100</b>	<b>42,445</b>	<b>33,008</b>	<b>1,660,115</b>	<b>8,268,778</b>
<b>Royalties <sup>3</sup></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>760</b>	<b>0</b>	<b>19,327</b>	<b>41,901</b>	<b>1,473,473</b>	<b>11,796,348</b>
<b>Total expenditures</b>	<b>2,888</b>	<b>1,639</b>	<b>2,100</b>	<b>35,250</b>	<b>9,967</b>	<b>98,616</b>	<b>242,414</b>	<b>5,489,598</b>	<b>44,981,566</b>
	British Columbia	Nunavut	Northwest Territories	Yukon	Arctic Islands	Offshore			Canada
						Newfoundland	Hudson Bay	Nova Scotia	
thousands of dollars									
<b>Exploration</b>									
Geological and geophysical operations	236,889	0	33,029	997	0	90,269	0	822	1,208,478
Drilling	542,103	0	184,718	7,781	0	59,112	0	36,663	5,203,454
Land acquisitions and rentals <sup>1</sup>	599,300	0	26,280	0	0	15,491	0	44,379	2,806,194
<b>Total</b>	<b>1,378,292</b>	<b>0</b>	<b>244,027</b>	<b>8,778</b>	<b>0</b>	<b>164,872</b>	<b>0</b>	<b>81,864</b>	<b>9,218,126</b>
<b>Development</b>									
Drilling	2,443,555	0	38,781	16,627	0	613,455	0	165,506	16,147,477
Production facilities <sup>2</sup>	961,326	0	163,997	6,573	0	561,085	0	205,148	8,028,084
Enhanced recovery and pressure maintenance	3,204	0	0	0	0	35,000	0	0	233,595
Natural gas plants	136,571	0	563	0	0	0	0	25,037	882,968
Non-production facilities	10,467	0	23,100	0	0	0	0	0	304,715
<b>Total</b>	<b>3,555,123</b>	<b>0</b>	<b>226,441</b>	<b>23,200</b>	<b>0</b>	<b>1,209,540</b>	<b>0</b>	<b>395,691</b>	<b>25,596,839</b>
<b>Operating</b>									
Field and well operations	956,338	0	57,183	3,912	0	424,941	0	117,733	9,583,838
Natural gas processing plants	264,527	0	5,585	2,049	0	0	0	37,997	1,877,497
Taxes (excluding income tax)	45,835	0	2,028	100	0	220	0	5,354	467,559
Other operating expenses	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1,266,700</b>	<b>0</b>	<b>64,796</b>	<b>6,061</b>	<b>0</b>	<b>425,161</b>	<b>0</b>	<b>161,084</b>	<b>11,928,894</b>
<b>Royalties <sup>3</sup></b>	<b>1,966,677</b>	<b>0</b>	<b>16,053</b>	<b>4,100</b>	<b>0</b>	<b>409,460</b>	<b>0</b>	<b>94,200</b>	<b>15,822,299</b>
<b>Total expenditures</b>	<b>8,166,792</b>	<b>0</b>	<b>551,317</b>	<b>42,139</b>	<b>0</b>	<b>2,209,033</b>	<b>0</b>	<b>732,839</b>	<b>62,566,158</b>

1. Includes bonuses, legal fees, filing fees, producing and non-producing acreage retention costs, bonuses paid for acquisition of freeholders' mineral rights, relevant land department salaries and overhead.

2. Includes tangible well and lease equipment and pipelines and related facilities.

3. Net of applicable incentive credits; excludes synthetic crude oil royalties.

**Table 4**  
**Marketable production and values**

	2002	2003	2004	2005
	thousands of cubic metres			
Crude oil	83,900.4	84,690.0	81,768.7	78,918.5
Synthetic crude oil	25,494.6	25,028.8	26,661.9	21,932.5
Crude bitumen	17,481.6	25,029.0	30,854.7	35,325.9
Condensate	1,196.9	1,180.8	1,134.9	1,494.0
Pentanes plus	8,896.3	8,884.6	8,739.4	8,537.0
Propane	8,811.5	9,123.8	9,019.6	9,093.3
Butanes	5,119.3	5,477.0	5,380.5	5,455.2
Ethane	14,932.8	14,838.9	15,661.6	15,705.9
	millions of cubic metres			
Natural gas	172,197.2	166,457.2	167,502.5	170,740.3
	thousands of metric tonnes			
Elemental sulphur	7,384.9	6,764.9	7,486.2	7,412.7
	thousands of dollars			
Crude oil	18,157,229	19,561,409	22,144,960	26,915,670
Synthetic crude oil	6,455,743	6,777,342	8,570,468	9,213,624
Crude bitumen	2,763,700	4,396,607	6,291,273	8,406,151
Condensate	298,315	322,927	380,381	656,730
Pentanes plus	2,281,093	2,552,213	3,252,858	3,967,626
Propane	1,151,165	1,860,994	1,996,729	2,472,403
Butanes	892,098	1,277,861	1,483,143	1,776,135
Ethane	1,951,418	2,563,782	2,781,028	3,693,432
Natural gas	23,719,717	37,044,588	38,103,949	51,101,881
Elemental sulphur	62,573	152,582	207,505	227,951
<b>Total value</b>	<b>57,733,051</b>	<b>76,510,306</b>	<b>85,212,294</b>	<b>108,431,603</b>

**Table 5-1**  
**Commodity data, oil and gas extraction — Net production withdrawals**

	Canada	Offshore Newfoundland	Offshore Nova Scotia	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon	Northwest Territories
thousands of cubic metres											
<b>Crude oil</b>											
2005	78,918.5	17,677.6	0.0	0.0	139.2	811.9	24,292.8 <sup>2</sup>	33,141.7	1,765.7	0.0	1,089.6
2004	81,768.7	18,249.2	0.0	0.0	155.1	637.4	24,584.1 <sup>2</sup>	34,888.5	2,019.0	0.0	1,235.4
<b>Synthetic crude oil</b>											
2005	21,932.5	0.0	0.0	0.0	0.0	0.0	0.0	21,932.5	0.0	0.0	0.0
2004	26,661.9	0.0	0.0	0.0	0.0	0.0	0.0	26,661.9	0.0	0.0	0.0
<b>Crude bitumen</b>											
2005	35,325.9	0.0	0.0	0.0	0.0	0.0	0.0	35,325.9	0.0	0.0	0.0
2004	30,854.7	0.0	0.0	0.0	0.0	0.0	0.0	30,854.7	0.0	0.0	0.0
<b>Condensate</b>											
2005	1,494.0	0.0	741.9	0.0	0.0	0.0	0.0	564.2	187.9	0.0	0.0
2004	1,134.9	0.0	463.2	0.0	0.0	0.0	0.0	502.0	169.7	0.0	0.0
<b>Pentanes plus</b>											
2005	8,537.0	0.0	0.0	0.0	0.0	0.0	30.8	7,914.4	507.6	0.0	84.2
2004	8,739.4	0.0	0.0	0.0	0.0	0.0	28.2	8,099.9	520.0	0.0	91.3
<b>Propane</b>											
2005	9,093.3	0.0	215.7	0.0	0.0	0.0	49.5	8,452.7	375.4	0.0	0.0
2004	9,019.6	0.0	185.1	0.0	0.0	0.0	44.7	8,397.4	392.4	0.0	0.0
<b>Butanes</b>											
2005	5,455.2	0.0	190.9	0.0	0.0	0.0	25.2	4,895.0	344.1	0.0	0.0
2004	5,380.5	0.0	133.5	0.0	0.0	0.0	23.6	4,904.5	318.9	0.0	0.0
<b>Ethane<sup>1</sup></b>											
2005	15,707.9	0.0	0.0	0.0	0.0	0.0	40.6	14,620.5	1,046.8	0.0	0.0
2004	15,661.6	0.0	0.0	0.0	0.0	0.0	39.2	14,669.0	953.4	0.0	0.0
millions of cubic metres											
<b>Natural gas</b>											
2005	203,460.1	292.6	4,218.3	0.0	254.5	0.0	8,978.4	157,130.0	31,892.8	197.9	495.6
2004	201,532.4	262.1	4,324.3	0.0	273.0	0.0	8,891.1	155,664.1	31,201.3	185.5	731.0
thousands of metric tonnes											
<b>Elemental sulphur</b>											
2005	7,412.7	0.0	0.0	0.0	0.0	0.0	0.0	6,559.7	853.0	0.0	0.0
2004	7,486.2	0.0	0.0	0.0	0.0	0.0	0.0	6,704.5	781.7	0.0	0.0

1. Estimated before solvent flood.

2. Excludes volume of upgraded crude oil.

**Table 5-2**  
**Commodity data, oil and gas extraction — Marketable production**

	Canada	Offshore Newfoundland	Offshore Nova Scotia	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon	Northwest Territories
thousands of cubic metres											
Crude oil	78,918.5	17,677.6	0.0	0.0	139.2	811.9	24,292.8 <sup>2</sup>	33,141.7	1,765.7	0.0	1,089.6
Synthetic crude oil	21,932.5	0.0	0.0	0.0	0.0	0.0	0.0	21,932.5	0.0	0.0	0.0
Crude bitumen	35,325.9	0.0	0.0	0.0	0.0	0.0	0.0	35,325.9	0.0	0.0	0.0
Condensate	1,494.0	0.0	741.9	0.0	0.0	0.0	0.0	564.2	187.9	0.0	0.0
Pentanes plus	8,537.0	0.0	0.0	0.0	0.0	0.0	30.8	7,914.4	507.6	0.0	84.2
Propane	9,093.3	0.0	215.7	0.0	0.0	0.0	49.5	8,452.7	375.4	0.0	0.0
Butanes	5,455.2	0.0	190.9	0.0	0.0	0.0	25.2	4,895.0	344.1	0.0	0.0
Ethane <sup>1</sup>	15,707.9	0.0	0.0	0.0	0.0	0.0	40.6	14,620.5	1,046.8	0.0	0.0
millions of cubic metres											
Natural gas	170,740.3	0.0	3,945.8	0.0	254.5	0.0	7,242.8	131,797.6	26,938.4	150.7	410.5
thousands cubic tonnes											
Elemental sulphur	7,412.7	0.0	0.0	0.0	0.0	0.0	0.0	6,559.7	853.0	0.0	0.0
thousands of dollars											
Crude oil	26,915,670	7,021,189	0	0	59,187	327,057	6,696,192 <sup>3</sup>	11,684,713	702,519	0	424,813
Synthetic crude oil	9,213,624	0	0	0	0	0	0	9,213,624	0	0	0
Crude bitumen	8,406,151	0	0	0	0	0	0	8,406,151	0	0	0
Condensate	656,730	0	318,416	0	0	0	0	264,988	73,326	0	0
Pentanes plus	3,967,626	0	0	0	0	0	13,590	3,713,278	205,050	0	35,708
Propane	2,472,403	0	61,274	0	0	0	12,170	2,304,291	94,668	0	0
Butanes	1,776,135	0	70,875	0	0	0	8,203	1,604,532	92,525	0	0
Ethane <sup>1</sup>	3,693,432	0	0	0	0	0	9,469	3,439,619	244,344	0	0
Natural gas	51,101,881	0	1,286,528	0	98,978	0	2,070,717	39,769,926	7,709,769	45,953	120,010
Elemental sulphur	227,951	0	0	0	0	0	0	212,665	15,286	0	0
<b>Total value in dollars</b>	<b>108,431,603</b>	<b>7,021,189</b>	<b>1,737,093</b>	<b>0</b>	<b>158,165</b>	<b>327,057</b>	<b>8,810,341</b>	<b>80,613,787</b>	<b>9,137,487</b>	<b>45,953</b>	<b>580,531</b>

1. Estimated before solvent flood.

2. Excludes volume of upgraded crude oil.

3. Excludes value of upgraded crude oil. See reconciliation table 10.

**Table 5-3**  
**Commodity data, oil and gas extraction — Shipments**

	Canada	Offshore Newfoundland	Offshore Nova Scotia	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon	Northwest Territories
thousands of cubic metres											
Crude oil	78,918.5	17,677.6	0.0	0.0	139.2	811.9	24,292.8 <sup>2</sup>	33,141.7	1,765.7	0.0	1,089.6
Synthetic crude oil	21,932.5	0.0	0.0	0.0	0.0	0.0	0.0	21,932.5	0.0	0.0	0.0
Crude bitumen	35,325.9	0.0	0.0	0.0	0.0	0.0	0.0	35,325.9	0.0	0.0	0.0
Condensate	1,494.0	0.0	741.9	0.0	0.0	0.0	0.0	564.2	187.9	0.0	0.0
Pentanes plus	8,537.0	0.0	0.0	0.0	0.0	0.0	30.8	7,914.4	507.6	0.0	84.2
Propane	8,811.5	0.0	215.7	0.0	0.0	0.0	49.5	8,452.7	375.4	0.0	0.0
Butanes	5,119.3	0.0	190.9	0.0	0.0	0.0	25.2	4,895.0	344.1	0.0	0.0
Ethane <sup>1</sup>	15,707.9	0.0	0.0	0.0	0.0	0.0	40.6	14,620.5	1,046.8	0.0	0.0
millions of cubic metres											
Natural gas	172,197.2	0.0	3,945.8	0.0	254.5	0.0	7,242.8	131,797.6	26,938.4	150.7	410.5
thousands of metric tonnes											
Elemental sulphur	6,191.7	0.0	0.0	0.0	0.0	0.0	0.0	5,338.7	853.0	0.0	0.0
thousands of dollars											
Crude oil	26,915,670	7,021,189	0	0	59,187	327,057	6,696,192 <sup>3</sup>	11,684,713	702,519	0	424,813
Synthetic crude oil	9,213,624	0	0	0	0	0	0	9,213,624	0	0	0
Crude bitumen	8,406,151	0	0	0	0	0	0	8,406,151	0	0	0
Condensate	656,730	0	318,416	0	0	0	0	264,988	73,326	0	0
Pentanes plus	3,967,626	0	0	0	0	0	13,590	3,713,278	205,050	0	35,708
Propane	2,472,403	0	61,274	0	0	0	12,170	2,304,291	94,668	0	0
Butanes	1,776,135	0	70,875	0	0	0	8,203	1,604,532	92,525	0	0
Ethane <sup>1</sup>	3,693,432	0	0	0	0	0	9,469	3,439,619	244,344	0	0
Natural gas	51,101,881	0	1,286,528	0	98,978	0	2,070,717	39,769,926	7,709,769	45,953	120,010
Elemental sulphur	188,366	0	0	0	0	0	0	173,080	15,286	0	0
<b>Total value in dollars</b>	<b>108,392,018</b>	<b>7,021,189</b>	<b>1,737,093</b>	<b>0</b>	<b>158,165</b>	<b>327,057</b>	<b>8,810,341</b>	<b>80,574,202</b>	<b>9,137,487</b>	<b>45,953</b>	<b>580,531</b>

1. Estimated before solvent flood.

2. Excludes volume of upgraded crude oil.

3. Excludes value of upgraded crude oil. See reconciliation table 10.



**Table 6**  
**Conventional crude oil and equivalent and marketable natural gas remaining established reserves in Canada, 2005**

	Canada	Eastcoast <sup>1</sup> offshore	Arctic <sup>2</sup> Islands	Mackenzie <sup>2</sup> Delta-Beaufort Sea	Mainland <sup>2</sup> territories	Eastern Canada
thousands of cubic metres						
<b>Conventional crude oil</b>						
Remaining reserves at the 31 <sup>st</sup> of December, 2004	691,941	138,699	0	53,950	6,788	0
Positive revisions	0	0	0	0	0	0
Negative revisions	0	0	0	0	0	0
Extensions	0	0	0	0	0	0
Gross additions	215,224	151,851	0	0	0	0
<b>Total crude oil</b>	<b>907,165</b>	<b>290,550</b>	<b>0</b>	<b>53,950</b>	<b>6,788</b>	<b>0</b>
2005 net production <sup>3</sup>	79,227	17,685	0	0	1,089	0
Remaining reserves at the 31 <sup>st</sup> of December, 2005	827,938	272,865	0	53,950	5,699	0
Net change in reserves during 2005	135,997	134,166	0	0	-1,089	0
<b>Pentanes plus</b>						
Remaining reserves at 31 <sup>st</sup> of December, 2004	70,554	7,548	0	0	2,731	0
Positive revisions	0	0	0	0	0	0
Negative revisions	0	0	0	0	0	0
Extensions	0	0	0	0	0	0
Gross additions	9,766	0	0	0	0	0
<b>Total pentanes plus</b>	<b>80,320</b>	<b>7,548</b>	<b>0</b>	<b>0</b>	<b>2,731</b>	<b>0</b>
2005 net production <sup>3</sup>	9,612	185	0	0	55	0
Remaining reserves at 31 <sup>st</sup> of December, 2005	70,708	7,363	0	0	2,676	0
Net change in reserves during 2005	154	-185	0	0	-55	0
<b>Total remaining conventional crude oil and equivalent reserves</b>	<b>898,646</b>	<b>280,228</b>	<b>0</b>	<b>53,950</b>	<b>8,375</b>	<b>0</b>
millions of cubic metres						
<b>Marketable natural gas</b>						
Remaining reserves at 31 <sup>st</sup> of December, 2004	1,593,042	19,278	0	0	11,872	105
Positive revisions	0	0	0	0	0	0
Negative revisions	0	0	0	0	0	0
Extensions	0	0	0	0	0	0
Gross additions	214,954	0	0	0	-125	0
<b>Total marketable natural gas</b>	<b>1,807,996</b>	<b>19,278</b>	<b>0</b>	<b>0</b>	<b>11,747</b>	<b>105</b>
Net change in underground storage	0	0	0	0	0	0
2005 net production <sup>3,4</sup>	175,436	4,031	0	0	487	0
Remaining reserves at 31 <sup>st</sup> of December, 2005	1,632,560	15,247	0	0	11,260	105
Non-associated	1,412,305	15,247	0	0	10,143	105
Associated	220,255	0	0	0	1,117	0
Dissolved	0	0	0	0	0	0
Underground storage	0	0	0	0	0	0
Net change in reserves during 2005	39,518	-4,031	0	0	-612	0

See footnotes at the end of the table.

Table 6 – continued

**Conventional crude oil and equivalent and marketable natural gas remaining established reserves in Canada, 2005**

	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia
thousands of cubic metres					
<b>Conventional crude oil</b>					
Remaining reserves at the 31 <sup>st</sup> of December, 2004	1,947	3,861	187,902	276,632	22,162
Positive revisions	0	0	0	0	0
Negative revisions	0	0	0	0	0
Extensions	0	0	0	0	0
Gross additions	-214	893	34,264	27,193	1,237
<b>Total crude oil</b>	<b>1,733</b>	<b>4,754</b>	<b>222,166</b>	<b>303,825</b>	<b>23,399</b>
2005 net production <sup>3</sup>	138	812	24,515	33,060	1,928
Remaining reserves at the 31 <sup>st</sup> of December, 2005	1,595	3,942	197,651	270,765	21,471
Net change in reserves during 2005	-352	81	9,749	-5,867	-691
<b>Pentanes plus</b>					
Remaining reserves at 31 <sup>st</sup> of December, 2004	0	0	262	53,536	6,477
Positive revisions	0	0	0	0	0
Negative revisions	0	0	0	0	0
Extensions	0	0	0	0	0
Gross additions	0	0	61	9,076	629
<b>Total pentanes plus</b>	<b>0</b>	<b>0</b>	<b>323</b>	<b>62,612</b>	<b>7,106</b>
2005 net production <sup>3</sup>	0	0	76	8,830	466
Remaining reserves at 31 <sup>st</sup> of December, 2005	0	0	247	53,782	6,640
Net change in reserves during 2005	0	0	-15	246	163
<b>Total remaining conventional crude oil and equivalent reserves</b>	<b>1,595</b>	<b>3,942</b>	<b>197,898</b>	<b>324,547</b>	<b>28,111</b>
millions of cubic metres					
<b>Marketable natural gas</b>					
Remaining reserves at 31 <sup>st</sup> of December, 2004	11,456	0	85,007	1,175,892	289,432
Positive revisions	0	0	0	0	0
Negative revisions	0	0	0	0	0
Extensions	0	0	0	0	0
Gross additions	1,912	0	13,512	113,301	86,354
<b>Total marketable natural gas</b>	<b>13,368</b>	<b>0</b>	<b>98,519</b>	<b>1,289,193</b>	<b>375,786</b>
Net change in underground storage	0	0	0	0	0
2005 net production <sup>3, 4</sup>	347	0	6,905	135,713	27,953
Remaining reserves at 31 <sup>st</sup> of December, 2005	13,021	0	91,614	1,153,480	347,833
Non-associated	13,021	0	89,545	949,007	335,237
Associated	0	0	2,069	204,473	12,596
Dissolved	0	0	0	0	0
Underground storage	0	0	0	0	0
Net change in reserves during 2005	1,565	0	6,607	-22,412	58,401

1. Crude oil reserves were booked for the eastcoast offshore for the first time in year-end 1981 reserves.

2. As with all other areas, reserves for frontier areas are carried in accordance with the definition of established reserves. However, reserves for frontier areas are only shown when a threshold volume has been determined to exist.

3. Preliminary estimate.

4. Before re-processing plant operations.

**Source(s):** Canadian Association of Petroleum Producers. (Excludes oil sands reserves, see text table 6).

**Table 7-1**  
**Supply and disposition of crude oil and equivalent by source, Canada — 2004**

	Offshore Newfoundland	Offshore Nova Scotia	Ontario	Manitoba	Saskat- <sup>1</sup> chewan	Alberta
thousands of cubic metres						
<b>Supply</b>						
<b>Domestic production:</b>						
Crude oil						
Light and medium	18,249.2	0.0	155.1	637.4	5,067.1	22,606.0
Heavy	0.0	0.0	0.0	0.0	19,517.0	12,282.5
Synthetic crude oil	0.0	0.0	0.0	0.0	0.0	26,661.9
Crude bitumen	0.0	0.0	0.0	0.0	0.0	30,854.7
Less returned to formation	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>18,249.2</b>	<b>0.0</b>	<b>155.1</b>	<b>637.4</b>	<b>24,584.1</b>	<b>92,405.1</b>
Condensate	0.0	463.2	0.0	0.0	0.0	502.0
Pentanes plus	0.0	0.0	0.0	0.0	28.2	8,099.9
Net withdrawals	18,249.2	463.2	155.1	637.4	24,612.3	101,007.0
Imports	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total supply</b>	<b>18,249.2</b>	<b>463.2</b>	<b>155.1</b>	<b>637.4</b>	<b>24,612.3</b>	<b>101,007.0</b>
<b>Disposition</b>						
<b>Deliveries to refineries:</b>						
Atlantic provinces	2,277.7	0.0	0.0	0.0	0.0	0.0
Quebec	2,763.3	0.0	0.0	0.0	0.0	0.0
Ontario	3,544.0	0.0	155.1	252.7	1,549.4	10,232.9
Manitoba	0.0	0.0	0.0	0.0	0.0	0.0
Saskatchewan	0.0	0.0	0.0	0.0	3,160.0	2,171.3
Alberta	0.0	0.0	0.0	0.0	839.3	23,569.4
British Columbia	0.0	0.0	0.0	0.0	0.0	1,878.0
Northwest Territories	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>8,585.0</b>	<b>0.0</b>	<b>155.1</b>	<b>252.7</b>	<b>5,548.7</b>	<b>37,851.6</b>
<b>Export to United States</b>						
Petroleum administration						
East Coast	7,085.9	103.4	0.0	0.0	1,979.8	1,528.4
Midwest	0.0	0.0	0.0	430.2	17,134.5	37,603.8
Gulf Coast	1,566.0	0.0	0.0	0.0	0.0	0.0
Rocky Mountains	0.0	0.0	0.0	0.0	533.7	19,268.3
West Coast	0.0	0.0	0.0	0.0	0.0	5,730.7
<b>Total United States</b>	<b>8,651.9</b>	<b>103.4</b>	<b>0.0</b>	<b>430.2</b>	<b>19,648.0</b>	<b>64,131.2</b>
Other countries	1,021.6	44.4	0.0	0.0	0.0	0.0
<b>Total exports</b>	<b>9,673.5</b>	<b>147.8</b>	<b>0.0</b>	<b>430.2</b>	<b>19,648.0</b>	<b>64,131.2</b>
Net inventory changes	-9.3	315.4	0.0	68.2	-197.0	-641.4
Deliveries to other purchasers	0.0	0.0	0.0	0.0	0.0	0.0
Losses and adjustments	0.0	0.0	0.0	-113.7	-387.4	334.4
<b>Total disposition</b>	<b>18,249.2</b>	<b>463.2</b>	<b>155.1</b>	<b>637.4</b>	<b>24,612.3</b>	<b>101,007.0</b>

See footnotes at the end of the table.

Table 7-1 – continued

## Supply and disposition of crude oil and equivalent by source, Canada — 2004

	British Columbia	Northwest Territories	Total Canadian sources	Total foreign sources	Total all sources
thousands of cubic metres					
<b>Supply</b>					
<b>Domestic production:</b>					
Crude oil					
Light and medium	2,019.0	1,235.4	49,969.2	0.0	49,969.2
Heavy	0.0	0.0	31,799.5	0.0	31,799.5
Synthetic crude oil	0.0	0.0	26,661.9	0.0	26,661.9
Crude bitumen	0.0	0.0	30,854.7	0.0	30,854.7
Less returned to formation	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>2,019.0</b>	<b>1,235.4</b>	<b>139,285.3</b>	<b>0.0</b>	<b>139,285.3</b>
Condensate	169.7	0.0	1,134.9	0.0	1,134.9
Pentanes plus	520.0	91.3	8,739.4	0.0	8,739.4
Net withdrawals	2,708.7	1,326.7	149,159.6	0.0	149,159.6
Imports	0.0	0.0	0.0	54,274.4	54,274.4
<b>Total supply</b>	<b>2,708.7</b>	<b>1,326.7</b>	<b>149,159.6</b>	<b>54,274.4</b>	<b>203,434.0</b>
<b>Disposition</b>					
<b>Deliveries to refineries:</b>					
Atlantic provinces	0.0	0.0	2,277.7	22,437.5	24,715.2
Quebec	0.0	0.0	2,763.3	20,721.3	23,484.6
Ontario	0.0	1,279.5	17,013.6	11,115.6	28,129.2
Manitoba	0.0	0.0	0.0	0.0	0.0
Saskatchewan	0.0	0.0	5,331.3	0.0	5,331.3
Alberta	1,183.4	0.0	25,592.1	0.0	25,592.1
British Columbia	1,283.7	0.0	3,161.7	0.0	3,161.7
Northwest Territories	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>2,467.1</b>	<b>1,279.5</b>	<b>56,139.7</b>	<b>54,274.4</b>	<b>110,414.1</b>
<b>Export to United States</b>					
Petroleum administration					
East Coast	0.0	0.0	10,697.5	0.0	10,697.5
Midwest	0.0	0.0	55,168.5	0.0	55,168.5
Gulf Coast	0.0	0.0	1,566.0	0.0	1,566.0
Rocky Mountains	0.0	0.0	19,802.0	0.0	19,802.0
West Coast	119.0	0.0	5,849.7	0.0	5,849.7
<b>Total United States</b>	<b>119.0</b>	<b>0.0</b>	<b>93,083.7</b>	<b>0.0</b>	<b>93,083.7</b>
Other countries	0.0	0.0	1,066.0	0.0	1,066.0
<b>Total exports</b>	<b>119.0</b>	<b>0.0</b>	<b>94,149.7</b>	<b>0.0</b>	<b>94,149.7</b>
Net inventory changes	-1.9	-1.3	-467.3	0.0	-467.3
Deliveries to other purchasers	0.0	0.0	0.0	0.0	0.0
Losses and adjustments	124.5	48.5	-662.5	0.0	-662.5
<b>Total disposition</b>	<b>2,708.7</b>	<b>1,326.7</b>	<b>149,159.6</b>	<b>54,274.4</b>	<b>203,434.0</b>

1. Total supply excludes volume of upgraded crude oil.

**Note(s):** This table is not restricted to NAICS 211; it includes certain statistics of Petroleum refineries (NAICS 324) and of Oil Pipeline Transport (NAICS 4861).

**Table 7-2**  
**Supply and disposition of crude oil and equivalent by source, Canada — 2005**

	Offshore Newfoundland	Offshore Nova Scotia	Ontario	Manitoba	Saskat- <sup>1</sup> chewan	Alberta
thousands of cubic metres						
<b>Supply</b>						
<b>Domestic production:</b>						
Crude oil						
Light and medium	17,677.6	0.0	139.2	811.9	5,250.0	21,686.8
Heavy	0.0	0.0	0.0	0.0	19,042.8	11,454.9
Synthetic crude oil	0.0	0.0	0.0	0.0	0.0	21,932.5
Crude bitumen	0.0	0.0	0.0	0.0	0.0	35,325.9
Less returned to formation	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>17,677.6</b>	<b>0.0</b>	<b>139.2</b>	<b>811.9</b>	<b>24,292.8</b>	<b>90,400.1</b>
Condensate	0.0	741.9	0.0	0.0	0.0	564.2
Pentanes plus	0.0	0.0	0.0	0.0	30.8	7,914.4
Net withdrawals	17,677.6	741.9	139.2	811.9	24,323.6	98,878.7
Imports	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total supply</b>	<b>17,677.6</b>	<b>741.9</b>	<b>139.2</b>	<b>811.9</b>	<b>24,323.6</b>	<b>98,878.7</b>
<b>Disposition</b>						
<b>Deliveries to refineries:</b>						
Atlantic provinces	3,470.0	0.0	0.0	0.0	0.0	0.0
Quebec	2,126.4	0.0	0.0	0.0	0.0	0.0
Ontario	3,061.2	0.0	139.2	549.1	2,123.0	7,134.4
Manitoba	0.0	0.0	0.0	0.0	0.0	0.0
Saskatchewan	0.0	0.0	0.0	0.0	3,380.1	1,811.1
Alberta	0.0	0.0	0.0	0.0	509.9	24,017.8
British Columbia	0.0	0.0	0.0	0.0	0.0	1,963.6
Northwest Territories	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>8,657.6</b>	<b>0.0</b>	<b>139.2</b>	<b>549.1</b>	<b>6,013.0</b>	<b>34,926.9</b>
<b>Export to United States</b>						
Petroleum administration						
East Coast	7,510.6	62.0	0.0	0.0	2,776.1	764.5
Midwest	0.0	0.0	0.0	255.5	16,021.8	36,214.2
Gulf Coast	603.1	0.0	0.0	0.0	0.0	551.4
Rocky Mountains	0.0	0.0	0.0	0.0	199.1	20,978.7
West Coast	0.0	0.0	0.0	0.0	0.0	4,728.5
<b>Total United States</b>	<b>8,113.7</b>	<b>62.0</b>	<b>0.0</b>	<b>255.5</b>	<b>18,997.0</b>	<b>63,237.3</b>
Other countries	642.8	0.0	0.0	0.0	0.0	147.5
<b>Total exports</b>	<b>8,756.5</b>	<b>62.0</b>	<b>0.0</b>	<b>255.5</b>	<b>18,997.0</b>	<b>63,384.8</b>
Net inventory changes	263.5	679.9	0.0	7.3	-10.1	1,974.1
Deliveries to other purchasers	0.0	0.0	0.0	0.0	0.0	0.0
Losses and adjustments	0.0	0.0	0.0	0.0	-676.3	-1,407.1
<b>Total disposition</b>	<b>17,677.6</b>	<b>741.9</b>	<b>139.2</b>	<b>811.9</b>	<b>24,323.6</b>	<b>98,878.7</b>

See footnotes at the end of the table.

Table 7-2 – continued

## Supply and disposition of crude oil and equivalent by source, Canada — 2005

	British Columbia	Northwest Territories	Total Canadian sources	Total foreign sources	Total all sources
thousands of cubic metres					
<b>Supply</b>					
<b>Domestic production:</b>					
Crude oil					
Light and medium	1,765.7	1,089.6	48,420.8	0.0	48,420.8
Heavy	0.0	0.0	30,497.7	0.0	30,497.7
Synthetic crude oil	0.0	0.0	21,932.5	0.0	21,932.5
Crude bitumen	0.0	0.0	35,325.9	0.0	35,325.9
Less returned to formation	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,765.7</b>	<b>1,089.6</b>	<b>136,176.9</b>	<b>0.0</b>	<b>136,176.9</b>
Condensate	187.9	0.0	1,494.0	0.0	1,494.0
Pentanes plus	507.6	84.2	8,537.0	0.0	8,537.0
Net withdrawals	2,461.2	1,173.8	146,207.9	0.0	146,207.9
Imports	...	...	...	53,796.9	53,796.9
<b>Total supply</b>	<b>2,461.2</b>	<b>1,173.8</b>	<b>146,207.9</b>	<b>53,796.9</b>	<b>200,004.8</b>
<b>Disposition</b>					
<b>Deliveries to refineries:</b>					
Atlantic provinces	0.0	0.0	3,470.0	21,788.4	25,258.4
Quebec	0.0	0.0	2,126.4	22,832.9	24,959.3
Ontario	0.0	1,124.4	14,131.3	9,175.6	23,306.9
Manitoba	0.0	0.0	0.0	0.0	0.0
Saskatchewan	0.0	0.0	5,191.2	0.0	5,191.2
Alberta	1,116.8	0.0	25,644.5	0.0	25,644.5
British Columbia	1,051.3	0.0	3,014.9	0.0	3,014.9
Northwest Territories	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>2,168.1</b>	<b>1,124.4</b>	<b>53,578.3</b>	<b>53,796.9</b>	<b>107,375.2</b>
<b>Export to United States</b>					
Petroleum administration					
East Coast	0.0	0.0	11,113.2	0.0	11,113.2
Midwest	0.0	0.0	52,491.5	0.0	52,491.5
Gulf Coast	0.0	0.0	1,154.5	0.0	1,154.5
Rocky Mountains	0.0	0.0	21,177.8	0.0	21,177.8
West Coast	185.8	0.0	4,914.3	0.0	4,914.3
<b>Total United States</b>	<b>185.8</b>	<b>0.0</b>	<b>90,851.3</b>	<b>0.0</b>	<b>90,851.3</b>
Other countries	0.0	0.0	790.3	0.0	790.3
<b>Total exports</b>	<b>185.8</b>	<b>0.0</b>	<b>91,641.6</b>	<b>0.0</b>	<b>91,641.6</b>
Net inventory changes	11.4	3.0	2,929.1	0.0	2,929.1
Deliveries to other purchasers	0.0	0.0	0.0	0.0	0.0
Losses and adjustments	95.9	46.4	-1,941.1	0.0	-1,941.1
<b>Total disposition</b>	<b>2,461.2</b>	<b>1,173.8</b>	<b>146,207.9</b>	<b>53,796.9</b>	<b>200,004.8</b>

1. Total supply excludes volume of upgraded crude oil.

**Note(s):** This table is not restricted to NAICS 211; it includes certain statistics of Petroleum refineries (NAICS 324) and of Oil Pipeline Transport (NAICS 4861).

**Table 8-1**  
**Supply and disposition of natural gas, by source, Canada — 2004**

	Newfoundland and Labrador	Nova Scotia	Ontario	Saskat- chewan	Alberta	British Columbia
millions of cubic metres at 101.325 kPa and 15°C.						
<b>Field and processing plants</b>						
<b>Supply</b>						
Gross new production	3,984.5	4,327.9	273.0	9,409.5	167,726.4	31,354.4
Less field flared and waste	288.4	3.6	0.0	518.4	1,024.8	153.1
Net new production	3,696.1	4,324.3	273.0	8,891.1	166,701.6	31,201.3
Reproduced	0.0	0.0	0.0	0.0	0.0	0.0
Less injected and stored	3,434.0	0.0	0.0	0.0	11,037.5	0.0
<b>Net withdrawals</b>	<b>262.1</b>	<b>4,324.3</b>	<b>273.0</b>	<b>8,891.1</b>	<b>155,664.1</b>	<b>31,201.3</b>
<b>Disposition</b>						
Field disposition and uses	262.1	0.0	0.0	1,072.6	3,491.3	1,666.2
Gathering system disposition and uses	0.0	13.0	0.0	436.3	3,219.1	0.0
Processing plant disposition and uses						
Processing and re-processing shrinkage	0.0	318.4	0.0	81.3	15,528.6	1,894.7
Other disposition and uses	0.0	0.0	0.0	96.0	5,021.5	858.9
Other uses	0.0	0.0	0.0	0.0	0.0	0.0
Adjustment	0.0	-181.1	0.0	-192.3	-543.7	781.5
Deliveries of marketable gas to transport and distribution systems	0.0	4,174.0	273.0	7,397.2	128,947.3	26,000.0
<b>Total disposition</b>	<b>262.1</b>	<b>4,324.3</b>	<b>273.0</b>	<b>8,891.1</b>	<b>155,664.1</b>	<b>31,201.3</b>
<b>Gas utilities</b>						
<b>Supply</b>						
<b>Total marketable gas</b>	<b>0.0</b>	<b>4,174.0</b>	<b>273.0</b>	<b>7,397.2</b>	<b>128,947.3</b>	<b>26,000.0</b>
Receipts from distributor storage	0.0	0.0	0.0	584.3	23,011.0	1,341.6
Imports	0.0	0.0	0.0	0.0	0.0	0.0
Other receipts <sup>1</sup>	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total supply of marketable gas</b>	<b>0.0</b>	<b>4,174.0</b>	<b>273.0</b>	<b>7,981.5</b>	<b>151,958.3</b>	<b>27,341.6</b>
<b>Disposition</b>						
Utility sales (excluding direct sales)						
British Columbia	0.0	0.0	0.0	0.0	387.5	2,318.0
Alberta	0.0	0.0	0.0	0.0	19,157.0	4,824.2
Saskatchewan	0.0	0.0	0.0	1,640.9	0.0	0.0
Manitoba	0.0	0.0	0.0	0.0	1,344.2	0.0
Ontario	0.0	0.0	273.0	2,552.3	10,570.6	1,738.1
Quebec	0.0	0.0	0.0	0.0	4,089.7	0.0
New Brunswick	0.0	0.0	0.0	0.0	0.0	0.0
Northwest Territories	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total utility sales</b>	<b>0.0</b>	<b>0.0</b>	<b>273.0</b>	<b>4,193.2</b>	<b>35,549.0</b>	<b>8,880.3</b>
Exports	0.0	3,495.5	0.0	29.4	89,948.4	11,788.0
Direct sales <sup>2, 3</sup>	0.0	668.6	0.0	2,621.9	15,572.1	3,677.7
Delivered to distributor storage	0.0	0.0	0.0	726.9	5,984.0	1,934.7
Line pack fluctuation	0.0	6.5	0.0	-1.0	-336.4	0.1
Pipeline fuel	0.0	15.2	0.0	65.2	3,783.1	444.2
Pipeline losses and unaccounted volumes	0.0	-11.8	0.0	345.9	1,458.1	616.6
<b>Total disposition of marketable gas</b>	<b>0.0</b>	<b>4,174.0</b>	<b>273.0</b>	<b>7,981.5</b>	<b>151,958.3</b>	<b>27,341.6</b>

See footnotes at the end of the table.

Table 8-1 – continued

## Supply and disposition of natural gas, by source, Canada — 2004

	Yukon	Northwest Territories	Total Canadian sources	Total foreign sources	Total all sources
millions of cubic metres at 101.325 kPa and 15°C.					
<b>Field and processing plants</b>					
<b>Supply</b>					
Gross new production	186.6	738.1	218,000.4	0.0	218,000.4
Less field flared and waste	1.1	7.1	1,996.5	0.0	1,996.5
Net new production	185.5	731.0	216,003.9	0.0	216,003.9
Reproduced	0.0	0.0	0.0	0.0	0.0
Less injected and stored	0.0	0.0	14,471.5	0.0	14,471.5
<b>Net withdrawals</b>	<b>185.5</b>	<b>731.0</b>	<b>201,532.4</b>	<b>0.0</b>	<b>201,532.4</b>
<b>Disposition</b>					
Field disposition and uses	0.0	0.0	6,492.2	0.0	6,492.2
Gathering system disposition and uses	0.0	0.0	3,668.4	0.0	3,668.4
Processing plant disposition and uses					
Processing and re-processing shrinkage	38.1	95.4	17,956.5	0.0	17,956.5
Other disposition and uses	3.6	68.4	6,048.4	0.0	6,048.4
Other uses	0.0	0.0	0.0	0.0	0.0
Adjustment	0.0	0.0	-135.6	0.0	-135.6
Deliveries of marketable gas to transport and distribution systems	143.8	567.2	167,502.5	0.0	167,502.5
<b>Total disposition</b>	<b>185.5</b>	<b>731.0</b>	<b>201,532.4</b>	<b>0.0</b>	<b>201,532.4</b>
<b>Gas utilities</b>					
<b>Supply</b>					
<b>Total marketable gas</b>	<b>143.8</b>	<b>567.2</b>	<b>167,502.5</b>	<b>0.0</b>	<b>167,502.5</b>
Receipts from distributor storage	0.0	0.0	24,936.9	0.0	24,936.9
Imports	0.0	0.0	0.0	10,860.6	10,860.6
Other receipts <sup>1</sup>	0.0	0.0	0.0	0.0	0.0
<b>Total supply of marketable gas</b>	<b>143.8</b>	<b>567.2</b>	<b>192,439.4</b>	<b>10,860.6</b>	<b>203,300.0</b>
<b>Disposition</b>					
Utility sales (excluding direct sales)					
British Columbia	143.8	490.2	3,339.5	0.0	3,339.5
Alberta	0.0	0.0	23,981.2	0.0	23,981.2
Saskatchewan	0.0	0.0	1,640.9	0.0	1,640.9
Manitoba	0.0	0.0	1,344.2	0.0	1,344.2
Ontario	0.0	0.0	15,134.0	0.0	15,134.0
Quebec	0.0	0.0	4,089.7	0.0	4,089.7
New Brunswick	0.0	0.0	0.0	0.0	0.0
Northwest Territories	0.0	77.0	77.0	0.0	77.0
<b>Total utility sales</b>	<b>143.8</b>	<b>567.2</b>	<b>49,606.5</b>	<b>0.0</b>	<b>49,606.5</b>
Exports	0.0	0.0	105,261.3	0.0	105,261.3
Direct sales <sup>2, 3</sup>	0.0	0.0	22,540.3	0.0	22,540.3
Delivered to distributor storage	0.0	0.0	8,645.6	10,860.6	19,506.2
Line pack fluctuation	0.0	0.0	-330.8	0.0	-330.8
Pipeline fuel	0.0	0.0	4,307.7	0.0	4,307.7
Pipeline losses and unaccounted volumes	0.0	0.0	2,408.8	0.0	2,408.8
<b>Total disposition of marketable gas</b>	<b>143.8</b>	<b>567.2</b>	<b>192,439.4</b>	<b>10,860.6</b>	<b>203,300.0</b>

1. Liquefied petroleum gas for gas enrichment, peak shaving or temporary supply.

2. Direct deliveries for industrial consumption and miscellaneous utility deliveries.

3. Data presented for Alberta as direct sales are intended to represent direct sales volumes actually consumed in the provinces of Saskatchewan, Manitoba, Ontario, and Quebec. Spacing constraints within the table does not allow for the allocation by province.

**Note(s):** This table is not restricted to NAICS 211; it includes certain statistics of Gas Distribution (NAICS 2212) and of Pipeline Transport (NAICS 4862).



**Table 8-2**  
**Supply and disposition of natural gas, by source, Canada — 2005**

	Newfoundland and Labrador	Nova Scotia	Ontario	Saskat- chewan	Alberta	British Columbia
millions of cubic metres at 101.325 kPa and 15°C.						
<b>Field and processing plants</b>						
<b>Supply</b>						
Gross new production	3,958.8	4,221.9	254.5	9,489.5	168,349.2	32,035.7
Less field flared and waste	294.6	3.6	0.0	511.1	963.7	142.9
Net new production	3,664.2	4,218.3	254.5	8,978.4	167,385.5	31,892.8
Reproduced	0.0	0.0	0.0	0.0	0.0	0.0
Less injected and stored	3,371.6	0.0	0.0	0.0	10,255.5	0.0
<b>Net withdrawals</b>	<b>292.6</b>	<b>4,218.3</b>	<b>254.5</b>	<b>8,978.4</b>	<b>157,130.0</b>	<b>31,892.8</b>
<b>Disposition</b>						
Field disposition and uses	292.6	0.0	0.0	1,049.5	3,874.3	1,720.9
Gathering system disposition and uses	0.0	10.9	0.0	426.5	3,408.6	0.0
Processing plant disposition and uses						
Processing and re-processing shrinkage	0.0	403.9	0.0	79.8	15,158.4	1,962.9
Other disposition and uses	0.0	0.0	0.0	94.2	4,906.6	840.1
Other uses	0.0	0.0	0.0	0.0	0.0	0.0
Adjustment	0.0	-142.3	0.0	85.6	-2,015.5	430.5
Deliveries of marketable gas to transport and distribution systems	0.0	3,945.8	254.5	7,242.8	131,797.6	26,938.4
<b>Total disposition</b>	<b>292.6</b>	<b>4,218.3</b>	<b>254.5</b>	<b>8,978.4</b>	<b>157,130.0</b>	<b>31,892.8</b>
<b>Gas utilities</b>						
<b>Supply</b>						
<b>Total marketable gas</b>	<b>0.0</b>	<b>3,945.8</b>	<b>254.5</b>	<b>7,242.8</b>	<b>131,797.6</b>	<b>26,938.4</b>
Receipts from distributor storage	0.0	0.0	0.0	467.5	24,318.2	1,344.3
Imports	0.0	0.0	0.0	0.0	0.0	0.0
Other receipts <sup>1</sup>	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total supply of marketable gas</b>	<b>0.0</b>	<b>3,945.8</b>	<b>254.5</b>	<b>7,710.3</b>	<b>156,115.8</b>	<b>28,282.7</b>
<b>Disposition</b>						
Utility sales (excluding direct sales)						
British Columbia	0.0	0.0	0.0	0.0	437.8	2,621.4
Alberta	0.0	0.0	0.0	0.0	17,126.9	5,612.2
Saskatchewan	0.0	0.0	0.0	1,607.5	0.0	0.0
Manitoba	0.0	0.0	0.0	0.0	1,204.6	0.0
Ontario	0.0	0.0	254.5	2,420.2	11,165.3	1,617.1
Quebec	0.0	0.0	0.0	0.0	3,900.0	0.0
New Brunswick	0.0	0.0	0.0	0.0	0.0	0.0
Northwest Territories	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total utility sales</b>	<b>0.0</b>	<b>0.0</b>	<b>254.5</b>	<b>4,027.7</b>	<b>33,834.6</b>	<b>9,850.7</b>
Exports	0.0	3,205.0	0.0	10.8	91,041.7	12,013.7
Direct sales <sup>2, 3</sup>	0.0	738.8	0.0	2,357.9	14,839.8	3,634.6
Delivered to distributor storage	0.0	0.0	0.0	1,316.2	6,580.5	1,358.2
Line pack fluctuation	0.0	0.6	0.0	-1.0	-98.8	15.1
Pipeline fuel	0.0	17.5	0.0	63.6	4,688.2	408.7
Pipeline losses and unaccounted volumes	0.0	-16.1	0.0	-64.9	5,229.8	1,001.7
<b>Total disposition of marketable gas</b>	<b>0.0</b>	<b>3,945.8</b>	<b>254.5</b>	<b>7,710.3</b>	<b>156,115.8</b>	<b>28,282.7</b>

See footnotes at the end of the table.

Table 8-2 – continued

## Supply and disposition of natural gas, by source, Canada — 2005

	Yukon	Northwest Territories	Total Canadian sources	Total foreign sources	Total all sources
millions of cubic metres at 101.325 kPa and 15°C.					
<b>Field and processing plants</b>					
<b>Supply</b>					
Gross new production	199.1	500.9	219,009.6	0.0	219,009.6
Less field flared and waste	1.2	5.3	1,922.4	0.0	1,922.4
Net new production	197.9	495.6	217,087.2	0.0	217,087.2
Reproduced	0.0	0.0	0.0	0.0	0.0
Less injected and stored	0.0	0.0	13,627.1	0.0	13,627.1
<b>Net withdrawals</b>	<b>197.9</b>	<b>495.6</b>	<b>203,460.1</b>	<b>0.0</b>	<b>203,460.1</b>
<b>Disposition</b>					
Field disposition and uses	0.0	0.0	6,937.3	0.0	6,937.3
Gathering system disposition and uses	0.0	0.0	3,846.0	0.0	3,846.0
Processing plant disposition and uses					
Processing and re-processing shrinkage	36.5	38.9	17,680.4	0.0	17,680.4
Other disposition and uses	10.7	46.2	5,897.8	0.0	5,897.8
Other uses	0.0	0.0	0.0	0.0	0.0
Adjustment	0.0	0.0	-1,641.7	0.0	-1,641.7
Deliveries of marketable gas to transport and distribution systems	150.7	410.5	170,740.3	0.0	170,740.3
<b>Total disposition</b>	<b>197.9</b>	<b>495.6</b>	<b>203,460.1</b>	<b>0.0</b>	<b>203,460.1</b>
<b>Gas utilities</b>					
<b>Supply</b>					
<b>Total marketable gas</b>	<b>150.7</b>	<b>410.5</b>	<b>170,740.3</b>	<b>0.0</b>	<b>170,740.3</b>
Receipts from distributor storage	0.0	0.0	26,130.0	0.0	26,130.0
Imports	0.0	0.0	0.0	9,524.1	9,524.1
Other receipts <sup>1</sup>	0.0	0.0	0.0	0.0	0.0
<b>Total supply of marketable gas</b>	<b>150.7</b>	<b>410.5</b>	<b>196,870.3</b>	<b>9,524.1</b>	<b>206,394.4</b>
<b>Disposition</b>					
Utility sales (excluding direct sales)					
British Columbia	150.7	329.7	3,539.6	0.0	3,539.6
Alberta	0.0	0.0	22,739.1	0.0	22,739.1
Saskatchewan	0.0	0.0	1,607.5	0.0	1,607.5
Manitoba	0.0	0.0	1,204.6	0.0	1,204.6
Ontario	0.0	0.0	15,457.1	0.0	15,457.1
Quebec	0.0	0.0	3,900.0	0.0	3,900.0
New Brunswick	0.0	0.0	0.0	0.0	0.0
Northwest Territories	0.0	80.8	80.8	0.0	80.8
<b>Total utility sales</b>	<b>150.7</b>	<b>410.5</b>	<b>48,528.7</b>	<b>0.0</b>	<b>48,528.7</b>
Exports	0.0	0.0	106,271.2	0.0	106,271.2
Direct sales <sup>2, 3</sup>	0.0	0.0	21,571.1	0.0	21,571.1
Delivered to distributor storage	0.0	0.0	9,254.9	9,524.1	18,779.0
Line pack fluctuation	0.0	0.0	-84.1	0.0	-84.1
Pipeline fuel	0.0	0.0	5,178.0	0.0	5,178.0
Pipeline losses and unaccounted volumes	0.0	0.0	6,150.5	0.0	6,150.5
<b>Total disposition of marketable gas</b>	<b>150.7</b>	<b>410.5</b>	<b>196,870.3</b>	<b>9,524.1</b>	<b>206,394.4</b>

1. Liquefied petroleum gas for gas enrichment, peak shaving or temporary supply.

2. Direct deliveries for industrial consumption and miscellaneous utility deliveries.

3. Data presented for Alberta as direct sales are intended to represent direct sales volumes actually consumed in the provinces of Saskatchewan, Manitoba, Ontario, and Quebec. Spacing constraints within the table does not allow for the allocation by province.

**Note(s):** This table is not restricted to NAICS 211; it includes certain statistics of Gas Distribution (NAICS 2212) and of Pipeline Transport (NAICS 4862).

**Table 9**  
**Total sales of natural gas, by province**

	Gas Utility Sales <sup>1</sup>				Direct <sup>2</sup> sales	Total sales
	Residential	Commercial	Industrial	Total		
millions of cubic metres						
<b>2005</b>						
Nova Scotia	0.0	0.0	0.0	0.0	74.2	74.2
New Brunswick	0.0	0.0	0.0	0.0	664.6	664.6
Quebec	701.3	1,854.3	1,344.4	3,900.0	1,467.9	5,367.9
Ontario	8,905.1	5,637.4	914.8	15,457.3	11,252.6	26,709.9
Manitoba	506.4	647.4	50.8	1,204.6	870.9	2,075.5
Saskatchewan	899.9	699.5	8.1	1,607.5	3,849.2	5,456.7
Alberta	3,939.3	2,402.8	16,397.1	22,739.2	0.0	22,739.2
British Columbia	2,107.4	1,266.7	165.2	3,539.3	3,392.2	6,931.5
<b>Canada</b>	<b>17,059.4</b>	<b>12,508.1</b>	<b>18,880.4</b>	<b>48,447.9</b>	<b>21,571.6</b>	<b>70,019.5</b>
<b>2004</b>						
Nova Scotia	0.0	0.0	0.0	0.0	44.5	44.5
New Brunswick	0.0	0.0	0.0	0.0	624.1	624.1
Quebec	721.7	1,910.1	1,458.0	4,089.8	1,650.2	5,740.0
Ontario	8,756.5	5,588.3	789.3	15,134.1	11,710.5	26,844.6
Manitoba	578.4	704.9	60.9	1,344.2	832.9	2,177.1
Saskatchewan	951.4	683.8	5.8	1,641.0	3,998.6	5,639.6
Alberta	4,260.3	2,631.0	17,090.1	23,981.4	0.0	23,981.4
British Columbia	1,917.3	1,246.4	176.3	3,340.0	3,679.2	7,019.2
<b>Canada</b>	<b>17,185.6</b>	<b>12,764.5</b>	<b>19,580.4</b>	<b>49,530.5</b>	<b>22,540.0</b>	<b>72,070.5</b>

1. Represents sales of natural gas by natural gas utilities.

2. Represents direct, non-utility sales of natural gas.

**Table 10**  
**Reconciliation table – Saskatchewan value of crude oil production, 2005**

	Value
	thousands of dollars
Marketable production of Saskatchewan conventional crude oil – Table 5 <sup>1</sup>	6,696,192
Add: Value of sales of upgraded crude oil <sup>2</sup>	1,488,000
<b>Total value of marketable production of Saskatchewan crude oil <sup>3</sup></b>	<b>8,184,192</b>

1. Represents value of marketable conventional crude oil as published by Saskatchewan Industry and Resources.

2. Represents estimate of value of sales of Saskatchewan upgraded crude oil.

3. Represents the value of Saskatchewan crude oil, including upgraded crude oil. This valuation is consistent with NAICS based industry statistics as published by the System of National Accounts, Input-Output Division.

## Data quality and methodology

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This publication presents data on the Crude Petroleum and Natural Gas Industry (NAICS 211 of the North American Industry Classification System, catalogue no.12-501-X). This industry includes establishments primarily engaged in exploration for and/or production of petroleum or natural gas from wells or tar sands, and natural gas plants processing the natural gas. In this publication, the oil sands industry is excluded from the tables which present principal statistics and labour data. However, the operating and capital expenditures of the oil sands industry are shown in text table 1 and the synthetic crude produced is included in commodity tables 4, 5 and 6.

Data presented in this publication on the supply and disposition of crude oil and equivalents and natural gas are compiled from information provided by agencies or departments of the provinces and territories responsible for the regulation of crude oil and natural gas production. As a result, 100% of oil and natural gas production by conventional or other means, whether offshore or on land, is accounted for.

Data on operating and capital expenditures are compiled from an annual survey of approximately 500 companies engaged in oil and natural gas exploration, development and production. Companies with annual capital expenditures of less than \$50,000 are excluded from the survey. The response rate for the survey is very high — over 95%. As a consequence, minimal imputation is required and minimal bias resulting from non-response is introduced in these data.

Data on drilling completions and crude oil and natural gas reserves are obtained from the Canadian Association of Petroleum Producers (formerly Canadian Petroleum Association).

Data published in this publication are subject to a certain degree of error, be it in differences in the interpretation of the questions, or mistakes introduced during processing. Reasonable efforts are made to ensure these errors are kept within acceptable limits through careful questionnaire design, liaison with major respondents, editing of data for inconsistencies and subsequent follow-up and quality control of manual processing operations. Historically, experience has indicated that the data rarely contain a serious error.

## Concepts

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Establishments in the crude petroleum and natural gas industry explore for and produce crude petroleum, natural gas, propane, butanes, ethane, and sulphur, either directly from the fields or from processing plants. That is, the establishment boundary includes within it the facilities of the processing plants, the oil and gas fields, geological and geophysical exploration, and head office functions supporting such activities, and any other ancillary services as are required to maintain such exploration or producing programmes. Although a company may be engaged in all phases of the industry, it may not necessarily be engaged in all phases in anyone province. Refining and marketing activities of oil companies are not included in NAICS 211, but are coded to separate industries. It should also be carefully noted that the companies engaged in geological and geophysical consulting, or as contractors, are not included in the NAICS 211, Crude Petroleum and Natural Gas Industry.

In our statistical publications, expenditures of the industry are segregated between exploration, development, operating and royalties. The primary purpose of this publication is to make available operational type data, while the basic statistics on capital expenditures are published by the Investment and Capital Stock Division in **Private and Public Investment in Canada** (catalogue no. 61-205-X).

Producing activity is defined as activity in which capital and operating expenditures are made by the establishment for the purpose of producing crude petroleum and natural gas. This includes expenditures on gas processing and re-processing plants and production facilities.

Total activity includes the producing activity plus an extension of the data for other non-producing activities in which the establishment might be engaged. Generally speaking, these are the geological and geophysical activities plus capital additions produced by own labour force for own use and charged to Fixed Assets Accounts.

Periodically, Statistics Canada, undertakes a special survey of the exploration, and production activities of 25 major oil and gas companies operating in Canada. Detailed data are collected from these selected companies for each operating and capital function, breaking the expenditures down into salaries and wages, materials and supplies and payments to contractors. These breakdowns of expenditures are considered as representative of the industry, and the total expenditures collected from all respondents in the annual survey are broken down in the same proportion as indicated by the special survey.

# Definitions

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## Production and expenditures

**Gross new production:** All new production as measured at the first well head metering point.

**Net new production:** "Gross new production" after the deduction of flared field production. It is the production that is available for further processing, sale, storage and field uses.

**Production net withdrawals:** "Net new production" plus reproduction from field storage, less the amount of gas or oil that is reinjected into field pools or storage.

**Marketable production:** The production of gas, oil, propane, butanes, ethane and pentanes which are produced and available for market; in other words, the production of natural gas products produced by gas processing plants after processing and reprocessing plant uses, losses and shrinkage, the sales of natural gas from dry gas fields after field use, losses, reinjection or the production for sale of crude oil after field use and losses, reinjection but before inventory changes.

**Crude oil:** A mixture mainly of pentanes and heavier hydrocarbons that may be contaminated with sulphur compounds, that is recovered or is recoverable at a well from an underground reservoir and that is liquid at the conditions under which its volume is measured or estimated. It includes all other hydrocarbon mixtures so recovered or recoverable except raw gas or condensate.

**Conventional crude oil:** Crude oil recoverable from a well using standard production methods.

**Heavy crude oil:** Oil with high viscosity, recoverable only to a very limited extent by using standard production methods.

**Synthetic crude oil:** A mixture of mainly pentanes and heavier hydrocarbons that may contain sulphur compounds, that is derived from crude bitumen and that is liquid at the conditions under which its volume is measured or estimated, and includes all other hydrocarbon mixtures so derived.

**Crude bitumen:** A naturally occurring viscous mixture, mainly of hydrocarbons heavier than pentane, that may contain sulphur compounds and that, in its naturally occurring viscous state, will not flow to a well.

**Condensate:** A mixture of mainly pentanes and heavier hydrocarbons that may be contaminated with sulphur compounds, that is recoverable at a well from an underground reservoir and that is gaseous in its virgin reservoir state but is liquid at the conditions under which its volume is measured or estimated.

**Pentanes plus:** A mixture of mainly pentanes and heavier hydrocarbons which ordinarily may contain some butanes and which is obtained from the processing of raw gas, condensate or crude oil.

**In-Situ recovery:** Refers to recovery methods applicable in heavy oil and oil sands formations without the removal of conglomerates from the location.

**Oil sands:** Deposits of sands and clays (excluding oil shales) heavily impregnated with semi-solid or solid bitumen, also known as tar sands. Athabasca, Peace River, Wabasca, Cold Lake and Buffalo Head Hills are the main Canadian resource areas.

**Natural gas:** A mix of hydrocarbon compounds and small quantities of various non-hydrocarbons existing in a gaseous phase or in solution with crude oil at reservoir conditions.

**Natural gas liquids (NGL):** That portion of reservoir gas which is liquefied at the surface in lease separators, field facilities, or gas processing plants. Includes ethane, propane, butanes and pentanes.

**Propane:** In addition to its normal scientific meaning, a mixture mainly of propane which ordinarily may contain some ethane or butanes.

**Butanes:** In addition to its normal scientific meaning, a mixture mainly of butanes which ordinarily may contain some propane or pentanes plus.

**Ethane:** In addition to its normal scientific meaning, a mixture mainly of ethane which ordinarily may contain some methane or propane.

**Upstream segment:** Activities and operations related to the search for, development, production, extraction and recovery of crude oil, natural gas, natural gas liquids and sulphur, as well as the production of synthetic oil.

**Downstream segment:** Includes refining and marketing, transportation and petrochemical operations.

**Geological and geophysical (G&G) expenses:** Costs associated with the undertaking of geological and geophysical studies, including salaries and supplies for geologists and geophysical crews as well as outlays for equipment and rights of access.

**Exploration costs:** Costs associated with the search for oil or natural gas deposits, including all lease fees and land acquisition costs, geological and geophysical expenditures, and exploratory drilling costs whether capitalized or expensed. Exploratory drilling is generally defined as the drilling of a well outside a proven area, or within a proven area but in a previously untested zone, to determine whether oil or gas reserves exist. Also included are costs of dry wells, casing and other materials and equipment abandoned in place.

**Production expenditures:** All spending related to the production of crude oil and natural gas, including expenditures on natural gas processing plants.

## Gas utilities

**Total marketable gas:** Receipt of gas from fields, processing or reprocessing plants after re-injection, field uses, processing plant or reprocessing plant shrinkage, plant use losses have been deducted.

**Imports:** Receipts of gas, by pipeline, into Canada.

**Other receipts:** Includes liquified petroleum gases for peak shaving and receipts from non-reporting companies.

**Exports:** Export of gas, by pipeline, to the United States.

**Direct sales:** Represents direct, non-utility delivery for consumption.

## Drilling completions

**New field wildcat:** A new field wildcat is a test located on a structural feature or other type of trap which has not previously produced oil or gas. In regions where local geological conditions have little or no control over accumulations, these tests are generally at least three kilometres from the nearest productive area. Distance, however, is not the determining factor. Of greater importance is the degree of risk assumed by the operator, and his intention to test a structure or stratigraphic condition not previously proved productive.

**New pool wildcat:** A new pool wildcat is a test located to explore for a new pool on a structural feature of other type of trap already producing oil or gas, but outside the known limits of the presently producing area. In some regions where local geological conditions exert an almost negligible control, exploratory holes of this type may be called "near wildcats". Such wells will usually be less than three kilometres from the nearest productive area.

**Deeper pool test:** A deeper pool test is an exploratory hole located within the productive area of a pool, or pools, already partly or wholly developed. It is drilled below the deepest productive pool in order to explore for deeper unknown prospects. All metres drilled are assigned to the exploratory category. This practise was adopted commencing with the 1979 data. Previously, metres drilled were split between the exploratory and development category.

**Shallower pool test:** A shallower pool test is an exploratory test drilled in search of a new productive reservoir, unknown but possibly suspected from data secured from other wells, and shallower than known productive pools. This test is located within the productive area of a pool or pools previously developed.

**Outposts:** An outpost is a test located and drilled with the expectation of extending for a considerable distance the productive area of a partly developed pool. It is usually two or more locations distant from the nearest productive site.

**Development well:** A development well is a well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive. If the well is completed for production, it is classified as an oil or gas development well. If the well is not completed for production and is abandoned, it is classified as a dry development hole.

**Stratigraphic test:** A stratigraphic test is a drilling effort, geologically directed, to obtain information pertaining to a specific geological condition that might lead toward the discovery of an accumulation of hydrocarbons. Such tests are customarily drilled without the intention of being completed for hydrocarbon production. This classification also includes tests identified as score tests and all types of expendable holes related to hydrocarbon exploration.

**Service well:** A service well is a well drilled or completed for the purpose of supporting production in an existing field. Wells of this class are drilled for the following specific purposes: Gas injection (natural gas, propane, butane), water injection, air injection, steam injection, salt water disposal, water supply for injection, observation, injection for in situ combustion.

**Miscellaneous wells:** This classification includes storage wells (natural gas, propane, butane), salt brine wells and other wells not classified under categories above.

**Project wells:** A project well is a well drilled within a designated oil sands area or like deposit for the purpose of producing raw bitumen from the deposit. Such wells may be drilled for pilot, experimental or commercial projects.

## Reserves

**Established reserves:** Those reserves recoverable under current technology and present and anticipated economic conditions, specifically proved by drilling, testing or production, plus that judgement portion of contiguous recoverable reserves that are interpreted to exist, from geological, geophysical or similar information, with reasonable certainty.

## Value added

By production activities: Is defined as the value of marketable production less materials and supplies purchased and fuel and electricity consumed in the production of hydrocarbons and sulphur.

## Components of value added — Producing activity

**Electricity:** Data refer to amounts purchased and used, with costs being delivered costs at plant and/or field. Electricity produced by establishments for internal consumption is not included in electricity purchases.

**Shipments:** The quantity and value of the marketable production that has actually been shipped. The differences between shipments and marketable production are inventory changes which may occur because a company may produce and accumulate or draw down inventories.

**Materials and supplies used in producing activities:** Data provided in table 6 represent quantities at laid down cost to the establishment of materials, supplies, chemicals, explosives and components consumed during the year in producing activities. In the oil and gas industry it is not practical to estimate the amount of materials that are used as fuel, since this amount represents only a small part of the total energy requirements of the industry and company accounting records do not provide this breakdown. For this reason the amount of fuel purchased and used is shown as a component of materials and supplies. The statistics represent only commodity items or physical goods (costs of



services or overhead charges such as advertising, insurance and depreciation are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Respondents were requested to report materials and supplies purchased and used. Included are repair and maintenance supplies not chargeable to fixed assets accounts. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment operated cafeterias and lunch counters, first aid medical supplies, laboratory supplies and other general supplies and materials used.

**Employment, person-hours, salaries and wages:** Employees include salaried management, professional, technical and administrative personnel, plus production, field, plant and related workers, and relate both to producing and non-producing activities.

"Production and related workers" are reported as those receiving pay during the last pay period in the respective month. The numbers are somewhat affected by turnover, in that employment may be overstated when an employee changes employment in the middle of a pay period.

Man-hours of production and related workers in producing activities represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave and statutory holidays). In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour.