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Oil and Gas Extraction

2007



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User information

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^s 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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Table of contents

Highlights	5
Analysis	6
Related products	9
Statistical tables	
1 Principal statistics, oil and gas extraction, conventional sector	11
2 Drilling completions	12
3 Net cash expenditures of the conventional petroleum industry	16
3-1 2006	16
3-2 2007	17
4 Marketable production and values	18
5 Commodity data, oil and gas extraction	19
5-1 Net production withdrawals	19
5-2 Marketable production	20
5-3 Shipments	21
6 Conventional crude oil and equivalent and marketable natural gas remaining established reserves in Canada, 2007	22
7 Supply and disposition of crude oil and equivalent by source, Canada	24
7-1 2006	24
7-2 2007	26
8 Supply and disposition of natural gas, by source, Canada	28
8-1 2006	28
8-2 2007	30
9 Total sales of natural gas, by province	32
10 Reconciliation table – Saskatchewan value of crude oil production, 2007	32

Table of contents – continued

Data quality, concepts and methodology

Data quality and methodology	33
Concepts	34
Definitions	35

Text tables

1. Non-conventional oil sector expenditures	7
2. Developed non-conventional oil reserves, 2007	8
3. Value added, non-conventional oil sector, 2007	8
4. Royalty allocation	8

Highlights

- The value of marketable production from crude oil, natural gas and natural gas liquids decreased marginally to \$109.3 billion for 2007.
- After declining 4.2% in 2006, total well completions in 2007 declined 17.8% to 21,210.
- Capital expenditures in the conventional sector declined by 18.0% in 2007 to \$31.7 billion.
- In Canada's oil sands region, the continuing development of non-conventional resources, through in-situ, mining and upgraders, capital expenditures expanded considerably by 26.0% to \$18.1 billion from the \$14.3 billion in 2006.

Analysis

Volumes — Tables 7 and 8

During 2007, the marketable production of crude oil and equivalent in Canada increased to 161.3 million cubic metres from 154.1 million cubic metres in 2006.

Production of crude bitumen rose to 39.9 million cubic metres in 2007, an increase of 8.0% over the 36.9 million cubic metres produced in 2006. The production of marketable natural gas fell slightly by 2.6% to 167.2 billion cubic metres in 2007 from 171.7 billion cubic metres in 2006.

Exports of Canadian natural gas to the U.S. increased 7.6% to 109.9 billion cubic metres in 2007, from 102.1 billion cubic metres in 2006.

Exports of crude oil and equivalent to the U.S. increased by 2.1%, to 104.7 million cubic metres in 2007, from 102.5 million cubic metres in 2006.

Demand by Canadian refineries for domestically produced crude oil and equivalent increased in 2007 to 57.6 million cubic metres from 54.0 million cubic metres in 2006. Crude oil imports increased slightly in 2007 by 1.2% to 49.9 million cubic metres from 49.3 million cubic metres in 2006.

Domestic sales of natural gas (including direct sales) rose by 10.8% in 2007, increasing to 76.8 billion cubic metres from 69.4 billion cubic metres in 2006. Natural gas imports rose by 29.0% in 2007, to 12.5 billion cubic meters from 9.7 billion cubic meters in 2006.

Values — Tables 4 and 5

In 2007, the total value of marketable production of hydrocarbons (including synthetic crude oil, natural gas, natural gas liquids, and elemental sulphur) rose by 0.2% to \$109.3 billion from \$109.1 billion in 2006.

The value of crude oil and condensate (including pentanes plus) increased by 4.9% to \$61.2 billion in 2007 compared to \$58.4 billion in 2006. The value of natural gas processing plant products (propane, butane and ethane) increased by 9.3% in 2007, to \$8.7 billion from \$8.0 billion in 2006, and elemental sulphur (from natural gas) increased to \$202.7 million in 2007 from \$129.3 million in 2006, an increase of 56.7%.

The Province of Alberta continued to dominate the overall value of marketable production in 2007, accounting for 72.4%, or \$79.1 billion of the total \$109.3 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 0.9% in 2007, to \$26.8 billion from \$26.6 billion in 2006. In 2007, royalty payments accounted for 46.2%, field and well operations 41.8%, natural gas processing plants 9.6%, and taxes 2.4%.

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) decreased in 2007 to \$31.7 billion from \$38.6 billion in 2006. Exploration expenditures decreased by 21.8% and development spending fell by 16.6%, for an overall decrease of 18.0% in capital spending in 2007 compared to 2006.

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 to extract the oil. See Text Table 1 for expenditure details relating to this sector.

Drilling — Table 2

The total number of well completions (oil, gas, dry and others) decreased in 2007, falling by 17.8% to 21,210 wells from 25,811 completions in 2006. Exploratory drilling declined by 39.6% during 2007 to 3,437 completions from 5,693 wells in 2006, and development drilling decreased by 19.5% in 2007 to 13,242 wells from 16,442 completions in 2006. During 2007, the number of successful oil wells completed fell to 5,202 compared to 6,134 completions the previous year, a 15.2% decrease. Successful gas well completions declined by 30.9% in 2007 to 9,654 wells compared to 13,965 gas wells completed in 2006.

Reserves — Table 6 and text table 2

Remaining established reserves of conventional crude oil and equivalent (excluding oilsands and bitumen) increased by year-end 2007 to 864,165,000 cubic metres from 856,913,000 cubic metres in 2006, up 0.9%. The reserves replacement, or gross additions, amounted to 108.0% of the volume of crude and equivalent produced during 2007. At this current rate of production, Canada's reserves of conventional crude oil and equivalent have an estimated economic life (reserves life index) of 9.7 years, down from 9.8 years in 2006.

Synthetic Crude oil and developed bitumen reserves are currently estimated to be 2,157,606,000 cubic metres. The reserves replacement (gross additions versus production) amounted to 100.1%, and its reserve life index stands at 31.0 years, down from 32.9 years in 2006.

Marketable natural gas established reserves decreased slightly in 2007 to 1,634 billion cubic metres from 1,640 billion cubic metres in the previous year. The volume of gross additions, by development drilling, replacing the production amounted to 96.6%. Based upon the amount of remaining established reserves and at the current level of production, the economic life of these reserves remains at 9.3 years.

Text table 1 Non-conventional oil sector expenditures

	In-situ	Mining	Upgraders	Total non-conventional expenditures 2007	Cumulative 1947 to 2007
millions of dollars					
Capital expenditures Including land acquisition and retention costs, exploratory and delineation drilling, research and development, fixed installations, machinery and equipment, housing and pollution control equipment	5,371.7	6,074.4	6,619.2	18,065.3	90,555.3
Operating costs Including taxes, royalties, administration expense, other operating expenses	2,058.5	7,404.5	1,388.1	10,851.1	82,388.8
Total expenditures	7,430.2	13,478.9	8,007.3	28,916.4	172,944.1

Text table 2
Developed non-conventional oil reserves, 2007

	Mining – Integrated synthetic crude oil	In-situ bitumen
	thousands of cubic metres	
Remaining reserves at 31st of December 2006	1,409,647	747,891
Gross additions in 2007	1,713	67,929
Reserves at 31 st of December 2006 plus 2007 gross additions	1,411,360	815,820
Less 2007 net production ¹	40,344	29,230
Remaining reserves at 31st of December 2007	1,371,016	786,590
Net change in reserves during 2007	-38,631	38,699

1. Preliminary estimate.

Source(s): Canadian Association of Petroleum Producers.

Text table 3
Value added, non-conventional oil sector,¹ 2007

	Value of marketable production	Cost of fuel, electricity, materials and supplies	Value added – Producing activity
	millions of dollars		
Canada	24,063.1	..	..

1. Represents synthetic crude and crude bitumen producers.

Text table 4
Royalty allocation

	2007	2006	2005	2004	2003	2002
	millions of dollars					
Total royalties, Canada ¹	13,825.0	12,974.5	15,822.3	11,824.9	10,503.0	7,968.0
Federal crown royalties	146.8	48.1	19.9	24.1	30.0	21.8
Provincial crown royalties	11,585.5	11,078.3	13,590.1	10,152.7	9,008.2	6,642.9
Non-crown royalties and other	2,092.7	1,848.1	2,212.3	1,648.1	1,464.8	1,303.3

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

Related products

Selected publications from Statistics Canada

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

Selected CANSIM tables from Statistics Canada

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

Selected surveys from Statistics Canada

2178	Oil and Gas Extraction
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Statistical tables

Table 1
Principal statistics,¹ 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			
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	..
2004	674	..	..	70,350,553	..
2005	687	..	..	90,797,744	..
2006					
Newfoundland and Labrador	3	..	..	0	..
Prince Edward Island	3	..	..	0	..
Nova Scotia	4	..	..	0	..
New Brunswick	6	..	..	0	..
Quebec	8	..	..	0	..
Ontario	11	..	..	135,382	..
Manitoba	15	..	..	534,041	..
Saskatchewan	143	..	..	9,657,053	..
Alberta	312	..	..	56,875,843	..
British Columbia	111	..	..	8,206,428	..
Nunavut	0	..	..	0	..
Northwest Territories	21	..	..	563,160	..
Yukon	5	..	..	28,190	..
Arctic Islands	0	..	..	0	..
Offshore					
Newfoundland	13	..	..	8,029,616	..
Nova Scotia	13	..	..	1,394,652	..
West	0	..	..	0	..
Total	668	..	..	85,424,365	..
2007					
Newfoundland and Labrador	2	..	..	0	..
Prince Edward Island	2	..	..	0	..
Nova Scotia	2	..	..	0	..
New Brunswick	4	..	..	0	..
Quebec	8	..	..	0	..
Ontario	6	..	..	112,519	..
Manitoba	17	..	..	618,712	..
Saskatchewan	238	..	..	9,690,013	..
Alberta	329	..	..	55,040,015	..
British Columbia	77	..	..	7,573,636	..
Nunavut	1	..	..	0	..
Northwest Territories	18	..	..	544,068	..
Yukon	2	..	..	15,790	..
Arctic Islands	0	..	..	0	..
Offshore					
Newfoundland	12	..	..	10,231,900	..
Nova Scotia	8	..	..	1,438,630	..
West	0	..	..	0	..
Total	726	..	..	85,265,283	..
Percentage change					
2007/2006	8.7	..	..	-0.2	..
2006/2005	-2.8	..	..	-5.9	..

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

Table 2
Drilling completions

	Oil				Gas			
	2006		2007		2006		2007	
	number	metres	number	metres	number	metres	number	metres
Canada								
Exploratory wells ¹	1,027	1,666,397	626	1,051,496	2,964	4,303,676	1,187	1,929,406
Development wells	3,887	5,414,768	3,215	4,524,218	11,001	11,217,404	8,467	8,271,419
Other ²	1,220	1,429,921	1,361	1,459,945	0	0	0	0
Total	6,134	8,511,086	5,202	7,035,659	13,965	15,521,080	9,654	10,200,825
Eastern Canada								
Exploratory wells ¹	6	8,036	0	0	46	25,374	9	3,224
Development wells	16	32,975	6	13,598	69	48,915	19	12,170
Other ²	0	0	0	0	0	0	0	0
Total	22	41,011	6	13,598	115	74,289	28	15,394
Offshore Newfoundland								
Exploratory wells ¹	0	0	0	0	0	0	0	0
Development wells	4	21,696	2	11,402	0	0	0	0
Other ²	0	0	0	0	0	0	0	0
Total	4	21,696	2	11,402	0	0	0	0
Offshore Nova Scotia								
Exploratory wells ¹	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	1	3,268	0	0
Other ²	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	3,268	0	0
Newfoundland and Labrador								
Exploratory wells ¹	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other ²	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
Prince Edward Island								
Exploratory wells ¹	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other ²	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
Nova Scotia								
Exploratory wells ¹	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other ²	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
New Brunswick								
Exploratory wells ¹	2	3,166	0	0	0	0	0	0
Development wells	0	0	0	0	8	21,015	2	6,920
Other ²	0	0	0	0	0	0	0	0
Total	2	3,166	0	0	8	21,015	2	6,920
Quebec								
Exploratory wells ¹	0	0	0	0	1	750	0	0
Development wells	0	0	0	0	0	0	0	0
Other ²	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	750	0	0
Ontario								
Exploratory wells ¹	4	4,870	0	0	45	24,624	9	3,224
Development wells	12	11,279	4	2,196	60	24,632	17	5,250
Other ²	0	0	0	0	0	0	0	0
Total	16	16,149	4	2,196	105	49,256	26	8,474
Western Canada								
Exploratory wells ¹	1,021	1,658,361	626	1,051,496	2,918	4,278,302	1,178	1,926,182
Development wells	3,871	5,381,793	3,209	4,510,620	10,932	11,168,489	8,448	8,259,249
Other ²	1,220	1,429,921	1,361	1,459,945	0	0	0	0
Total	6,112	8,470,075	5,196	7,022,061	13,850	15,446,791	9,626	10,185,431

See footnotes at the end of the table.

Table 2 – continued
Drilling completions

	Oil				Gas			
	2006	2006	2007	2007	2006	2006	2007	2007
	number	metres	number	metres	number	metres	number	metres
Manitoba								
Exploratory wells ¹	59	57,886	17	15,906	0	0	0	0
Development wells	377	409,102	263	302,500	0	0	0	0
Other ²	0	0	0	0	0	0	0	0
Total	436	466,988	280	318,406	0	0	0	0
Saskatchewan								
Exploratory wells ¹	385	478,712	356	595,699	314	201,738	127	80,560
Development wells	1,858	2,491,792	1,743	2,504,925	1,039	593,908	896	506,140
Other ²	0	0	0	0	0	0	0	0
Total	2,243	2,970,504	2,099	3,100,624	1,353	795,646	1,023	586,700
Alberta								
Exploratory wells ¹	563	1,101,999	248	431,817	2,405	3,726,136	890	1,532,506
Development wells	1,583	2,411,524	1,145	1,626,726	9,198	9,210,370	7,116	6,803,214
Other ²	1,220	1,429,921	1,361	1,459,945	0	0	0	0
Total	3,366	4,943,444	2,754	3,518,488	11,603	12,936,506	8,006	8,335,720
British Columbia								
Exploratory wells ¹	14	19,764	5	8,074	198	347,281	161	313,116
Development wells	53	69,375	57	74,904	694	1,362,746	436	949,895
Other ²	0	0	0	0	0	0	0	0
Total	67	89,139	62	82,978	892	1,710,027	597	1,263,011
Northwest Territories								
Exploratory wells ¹	0	0	0	0	1	3,147	0	0
Development wells	0	0	1	1,562	1	1,465	0	0
Other ²	0	0	0	0	0	0	0	0
Total	0	0	1	1,562	2	4,612	0	0

See footnotes at the end of the table.

Table 2 – continued
Drilling completions

	Abandoned and suspended				Total			
	2006		2007		2006		2007	
	number	metres	number	metres	number	metres	number	metres
Canada								
Exploratory wells ¹	1,702	2,530,924	1,624	2,432,713	5,693	8,500,997	3,437	5,413,614
Development wells	1,554	2,002,746	1,560	1,958,728	16,442	18,634,918	13,242	14,754,364
Other ²	8	7,913	0	0	3,676	2,203,611	4,531	2,481,346
Total	3,264	4,541,583	3,184	4,391,441	25,811	29,339,526	21,210	22,649,324
Eastern Canada								
Exploratory wells ¹	6	24,278	20	31,464	58	57,688	29	34,688
Development wells	6	15,292	13	35,417	91	97,182	38	61,185
Other ²	0	0	0	0	28	28,536	29	35,825
Total	12	39,570	33	66,881	177	183,406	96	131,698
Offshore Newfoundland								
Exploratory wells ¹	3	17,290	1	6,751	3	17,290	1	6,751
Development wells	6	15,292	4	17,619	10	36,988	6	29,021
Other ²	0	0	0	0	5	19,828	5	23,887
Total	9	32,582	5	24,370	18	74,106	12	59,659
Offshore Nova Scotia								
Exploratory wells ¹	1	4,440	9	6,251	1	4,440	18	9,475
Development wells	0	0	4	2,516	1	3,268	25	9,965
Other ²	0	0	0	0	0	0	24	11,938
Total	1	4,440	13	8,767	2	7,708	67	31,378
Newfoundland and Labrador								
Exploratory wells ¹	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other ²	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
Prince Edward Island								
Exploratory wells ¹	0	0	0	0	0	0	0	0
Development wells	0	0	0	0	0	0	0	0
Other ²	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
Nova Scotia								
Exploratory wells ¹	0	0	1	3,234	0	0	1	3,234
Development wells	0	0	0	0	0	0	0	0
Other ²	0	0	0	0	0	0	0	0
Total	0	0	1	3,234	0	0	1	3,234
New Brunswick								
Exploratory wells ¹	0	0	3	5,289	2	3,166	3	5,289
Development wells	0	0	5	15,282	8	21,015	7	22,202
Other ²	0	0	0	0	0	0	0	0
Total	0	0	8	20,571	10	24,181	10	27,491
Quebec								
Exploratory wells ¹	2	2,548	6	9,939	3	3,298	6	9,939
Development wells	0	0	0	0	0	0	0	0
Other ²	0	0	0	0	0	0	0	0
Total	2	2,548	6	9,939	3	3,298	6	9,939
Ontario								
Exploratory wells ¹	0	0	9	6,251	49	29,494	18	9,475
Development wells	0	0	4	2,516	72	35,911	25	9,962
Other ²	0	0	0	0	23	8,708	24	11,938
Total	0	0	13	8,767	144	74,113	67	31,375
Western Canada								
Exploratory wells ¹	1,696	2,506,646	1,604	2,401,249	5,635	8,443,309	3,408	5,378,926
Development wells	1,548	1,987,454	1,547	1,923,311	16,351	18,537,736	13,204	14,693,179
Other ²	8	7,913	0	0	3,648	2,175,075	4,502	2,445,521
Total	3,252	4,502,013	3,151	4,324,560	25,634	29,156,120	21,114	22,517,626

See footnotes at the end of the table.

Table 2 – continued
Drilling completions

	Abandoned and suspended				Total			
	2006	2006	2007	2007	2006	2006	2007	2007
	number	metres	number	metres	number	metres	number	metres
Manitoba								
Exploratory wells ¹	17	13,791	20	16,275	76	71,677	37	32,181
Development wells	34	43,574	38	47,097	411	452,676	301	349,597
Other ²	0	0	0	0	0	0	7	12,204
Total	51	57,365	58	63,372	487	524,353	345	393,982
Saskatchewan								
Exploratory wells ¹	174	203,751	212	217,833	873	884,201	695	894,091
Development wells	184	249,916	278	344,881	3,081	3,335,616	2,917	3,355,945
Other ²	0	0	0	0	75	79,588	77	86,629
Total	358	453,667	490	562,714	4,029	4,299,405	3,689	4,336,665
Alberta								
Exploratory wells ¹	1,390	2,104,828	1,277	1,951,832	4,358	6,932,963	2,415	3,916,155
Development wells	1,095	1,327,794	1,147	1,390,647	11,876	12,949,688	9,408	9,820,587
Other ²	8	7,913	0	0	3,566	2,088,665	4,415	2,342,554
Total	2,493	3,440,535	2,424	3,342,479	19,800	21,971,316	16,238	16,079,296
British Columbia								
Exploratory wells ¹	113	178,764	91	206,545	325	545,809	257	527,735
Development wells	234	364,713	77	130,118	981	1,796,834	570	1,154,920
Other ²	0	0	0	0	7	6,822	0	0
Total	347	543,477	168	336,663	1,313	2,349,465	827	1,682,655
Northwest Territories								
Exploratory wells ¹	2	5,512	4	8,764	3	8,659	4	8,764
Development wells	1	1,457	7	10,568	2	2,922	8	12,130
Other ²	0	0	0	0	0	0	3	4,134
Total	3	6,969	11	19,332	5	11,581	15	25,028

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 — 2006

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta
thousands of dollars									
Exploration									
Geological and geophysical operations	130	1,817	93	7,985	4,261	1,750	5,237	66,414	821,809
Drilling	1,225	3	10,658	5,085	11,062	35,527	51,146	386,677	4,123,817
Land acquisitions and rentals ¹	263	0	996	511	283	1,323	2,612	187,662	1,765,959
Total	1,618	1,820	11,747	13,581	15,606	38,600	58,995	640,753	6,711,585
Development									
Drilling	0	0	0	28,684	0	25,909	186,231	1,434,978	12,703,021
Production facilities ²	0	0	250	44,474	0	9,065	31,460	670,928	6,301,507
Enhanced recovery and pressure maintenance	0	0	0	0	0	0	0	58,372	191,001
Natural gas plants	0	0	0	284	0	0	0	36,799	830,291
Non-production facilities	0	0	0	0	7,935	1,116	5,466	9,324	426,478
Total	0	0	250	73,442	7,935	36,090	223,157	2,210,401	20,452,298
Operating									
Field and well operations	0	0	0	477	72	14,956	43,085	1,642,895	7,232,858
Natural gas processing plants	0	0	0	248	0	26,545	0	73,093	1,697,651
Taxes (excluding income tax)	0	0	0	0	0	437	3,007	78,489	369,377
Other operating expenses	0	0	0	0	0	0	0	0	0
Total	0	0	0	725	72	41,938	46,092	1,794,477	9,299,886
Royalties ³	0	0	0	788	0	16,329	68,775	1,578,375	9,198,079
Total expenditures	1,618	1,820	11,997	88,536	23,613	132,957	397,019	6,224,006	45,661,848
	British Columbia	Nunavut	Northwest Territories	Yukon	Arctic Islands	Offshore			Canada
						New- foundland	Hudson Bay	Nova Scotia	
thousands of dollars									
Exploration									
Geological and geophysical operations	280,016	0	74,002	863	0	99,461	0	1,382	1,365,220
Drilling	915,868	0	147,510	81	0	395,070	0	1,018	6,084,747
Land acquisitions and rentals ¹	700,163	0	82	0	0	841	0	4,373	2,665,068
Total	1,896,047	0	221,594	944	0	495,372	0	6,773	10,115,035
Development									
Drilling	2,720,862	0	35,567	0	0	638,566	0	37,041	17,810,859
Production facilities ²	1,300,091	0	130,335	929	0	134,984	0	268,314	8,892,337
Enhanced recovery and pressure maintenance	10,240	0	0	0	0	0	0	0	259,613
Natural gas plants	146,118	0	5,480	0	0	0	0	67	1,019,039
Non-production facilities	20,989	0	70	0	0	5,430	0	0	476,808
Total	4,198,300	0	171,452	929	0	778,980	0	305,422	28,458,656
Operating									
Field and well operations	1,097,683	0	50,542	4,747	0	717,978	0	124,179	10,929,472
Natural gas processing plants	320,078	0	2,933	2,105	0	0	0	39,088	2,161,741
Taxes (excluding income tax)	48,929	0	1,755	0	0	709	0	5,591	508,294
Other operating expenses	0	0	0	0	0	0	0	0	0
Total	1,466,690	0	55,230	6,852	0	718,687	0	168,858	13,599,507
Royalties ³	1,444,276	0	30,730	2,660	0	404,281	0	230,193	12,974,486
Total expenditures	9,005,313	0	479,006	11,385	0	2,397,320	0	711,246	65,147,684

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 — 2007

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta
thousands of dollars									
Exploration									
Geological and geophysical operations	1,018	161	258	925	6,849	164	8,407	59,383	658,675
Drilling	207	7,813	0	26,664	13,750	11,921	24,964	408,039	2,619,634
Land acquisitions and rentals ¹	5	26	50	576	247	1,756	1,175	295,694	969,139
Total	1,230	8,000	308	28,165	20,846	13,841	34,546	763,116	4,247,448
Development									
Drilling	0	0	0	57,951	5,772	7,514	158,241	1,566,448	10,378,930
Production facilities ²	0	0	0	45,665	35	1,474	37,834	720,778	5,442,949
Enhanced recovery and pressure maintenance	0	0	0	0	0	0	0	56,703	215,372
Natural gas plants	0	0	0	0	0	0	0	15,004	766,500
Non-production facilities	0	0	0	0	5,021	1,094	1,485	5,447	183,869
Total	0	0	0	103,616	10,828	10,082	197,560	2,364,380	16,987,620
Operating									
Field and well operations	0	0	13	3,961	36	14,445	48,741	1,725,122	7,521,080
Natural gas processing plants	0	0	0	5,309	0	24,314	0	80,884	2,078,634
Taxes (excluding income tax)	0	0	0	0	0	1,691	2,151	91,899	497,865
Other operating expenses	0	0	0	0	0	0	0	0	0
Total	0	0	13	9,270	36	40,450	50,892	1,897,905	10,097,579
Royalties ³	0	0	0	6,146	0	14,683	86,250	1,433,593	8,070,999
Total expenditures	1,230	8,000	321	147,197	31,710	79,056	369,248	6,458,994	39,403,646
	British Columbia	Nunavut	Northwest Territories	Yukon	Arctic Islands	Offshore			Canada
						New- foundland	Hudson Bay	Nova Scotia	
thousands of dollars									
Exploration									
Geological and geophysical operations	185,912	0	74,270	285	0	62,796	0	5,897	1,065,000
Drilling	956,975	0	132,601	9	0	148,611	0	794	4,351,982
Land acquisitions and rentals ¹	1,108,762	0	1,315	0	0	94	0	112,730	2,491,569
Total	2,251,649	0	208,186	294	0	211,501	0	119,421	7,908,551
Development									
Drilling	2,011,978	0	58,738	28	0	531,799	0	151	14,777,550
Production facilities ²	1,091,417	0	54,607	950	0	112,121	0	29,563	7,537,393
Enhanced recovery and pressure maintenance	8,213	0	681	0	0	0	0	4	280,973
Natural gas plants	117,424	0	12	0	0	0	0	1,224	900,164
Non-production facilities	21,143	0	45	0	0	27,734	0	0	245,838
Total	3,250,175	0	114,083	978	0	671,654	0	30,942	23,741,918
Operating									
Field and well operations	1,113,683	0	50,080	4,284	0	563,705	0	162,226	11,207,386
Natural gas processing plants	339,653	0	2,879	105	0	0	0	45,069	2,576,847
Taxes (excluding income tax)	50,663	0	1,828	55	0	808	0	5,331	652,291
Other operating expenses	0	0	0	0	0	0	0	0	0
Total	1,503,999	0	54,787	4,444	0	564,513	0	212,626	14,436,524
Royalties ³	1,255,406	0	30,730	3,187	0	1,223,987	0	263,971	12,388,952
Total expenditures	8,261,229	0	407,786	8,903	0	2,671,655	0	626,960	58,475,945

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

	2004	2005	2006	2007
	thousands of cubic metres			
Crude oil	81,768.7	78,918.5	78,081.0	80,572.3
Synthetic crude oil	26,661.9	21,932.5	28,764.2	30,509.7
Crude bitumen	30,854.7	35,325.9	36,942.4	39,907.9
Condensate	1,134.9	1,494.0	1,564.2	1,688.9
Pentanes plus	8,739.4	8,537.0	8,747.3	8,596.9
Propane	9,019.6	9,093.3	9,765.1	9,434.7
Butanes	5,380.5	5,455.2	6,226.9	6,169.0
Ethane	15,661.6	15,705.9	16,092.6	15,757.6
	millions of cubic metres			
Natural gas	167,502.5	170,740.3	171,690.0	167,195.2
	thousands of metric tonnes			
Elemental sulphur	7,486.2	7,412.7	7,435.3	7,109.3
	thousands of dollars			
Crude oil	22,144,960	26,915,713	29,727,361	32,451,219
Synthetic crude oil	8,570,468	9,213,624	12,950,793	13,773,604
Crude bitumen	6,291,273	8,406,151	10,697,780	10,289,454
Condensate	380,381	656,730	726,140	794,327
Pentanes plus	3,252,858	3,967,626	4,253,116	3,914,644
Propane	1,996,729	2,472,403	2,711,999	2,959,926
Butanes	1,483,143	1,776,135	2,275,681	2,314,274
Ethane	2,781,028	3,693,432	2,966,269	3,417,036
Natural gas	38,103,949	51,101,881	42,634,458	39,210,518
Elemental sulphur	207,505	227,951	129,342	202,675
Total value	85,212,294	108,431,646	109,072,939	109,327,677

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											
Crude oil											
2007	80,572.3	21,380.6	0.0	0.0	109.4	1,289.1	24,822.6	30,424.5	1,529.2	0.0	1,016.9
2006	78,081.0	17,620.4	0.0	0.0	125.0	1,240.6	24,838.2	31,503.4	1,670.6	0.0	1,082.8
Synthetic crude oil											
2007	30,509.7	0.0	0.0	0.0	0.0	0.0	0.0	30,509.7	0.0	0.0	0.0
2006	28,764.2	0.0	0.0	0.0	0.0	0.0	0.0	28,764.2	0.0	0.0	0.0
Crude bitumen											
2007	39,907.9	0.0	0.0	0.0	0.0	0.0	0.0	39,907.9	0.0	0.0	0.0
2006	36,942.4	0.0	0.0	0.0	0.0	0.0	0.0	36,942.4	0.0	0.0	0.0
Condensate											
2007	1,688.9	0.0	688.1	0.0	0.0	0.0	0.0	764.8	236.0	0.0	0.0
2006	1,564.2	0.0	698.1	0.0	0.0	0.0	0.0	640.1	226.0	0.0	0.0
Pentanes plus											
2007	8,596.9	0.0	0.0	0.0	0.0	0.0	35.9	8,073.8	398.3	0.0	88.9
2006	8,747.3	0.0	0.0	0.0	0.0	0.0	29.2	8,167.7	464.0	0.0	86.4
Propane											
2007	9,434.9	0.0	154.4	0.0	0.0	0.0	43.5	8,886.8	350.2	0.0	0.0
2006	9,765.1	0.0	167.6	0.0	0.0	0.0	43.5	9,194.0	360.0	0.0	0.0
Butanes											
2007	6,169.0	0.0	158.0	0.0	0.0	0.0	21.7	5,686.9	302.4	0.0	0.0
2006	6,226.9	0.0	163.3	0.0	0.0	0.0	21.9	5,751.9	289.8	0.0	0.0
Ethane¹											
2007	15,757.6	0.0	0.0	0.0	0.0	0.0	15.4	14,491.7	1,250.5	0.0	0.0
2006	16,092.6	0.0	0.0	0.0	0.0	0.0	26.7	14,824.5	1,241.4	0.0	0.0
millions of cubic metres											
Natural gas											
2007	196,424.9	380.6	4,389.3	0.0	212.9	0.0	8,376.8	152,260.3	30,438.6	101.5	264.9
2006	202,839.4	253.6	3,791.2	0.0	259.3	0.0	9,044.4	153,768.1	35,291.7	151.7	279.4
thousands of metric tonnes											
Elemental sulphur											
2007	7,109.2	0.0	0.0	0.0	0.0	0.0	0.0	6,301.7	807.6	0.0	0.0
2006	7,435.3	0.0	0.0	0.0	0.0	0.0	0.0	6,600.1	835.2	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	80,572.3	21,380.6	0.0	0.0	109.4	1,289.1	24,822.6	30,424.5	1,529.2	0.0	1,016.9
Synthetic crude oil	30,509.7	0.0	0.0	0.0	0.0	0.0	0.0	30,509.7	0.0	0.0	0.0
Crude bitumen	39,907.9	0.0	0.0	0.0	0.0	0.0	0.0	39,907.9	0.0	0.0	0.0
Condensate	1,688.9	0.0	688.1	0.0	0.0	0.0	0.0	764.8	236.0	0.0	0.0
Pentanes plus	8,596.9	0.0	0.0	0.0	0.0	0.0	35.9	8,073.8	398.3	0.0	88.9
Propane	9,434.7	0.0	154.4	0.0	0.0	0.0	43.5	8,886.6	350.2	0.0	0.0
Butanes	6,169.0	0.0	158.0	0.0	0.0	0.0	21.7	5,686.9	302.4	0.0	0.0
Ethane ¹	15,757.6	0.0	0.0	0.0	0.0	0.0	15.4	14,491.7	1,250.5	0.0	0.0
millions of cubic metres											
Natural gas	167,195.2	0.0	4,080.2	0.0	212.9	0.0	6,685.3	129,113.7	26,806.3	72.8	224.0
thousands cubic tonnes											
Elemental sulphur	7,109.3	0.0	0.0	0.0	0.0	0.0	0.0	6,301.7	807.6	0.0	0.0
thousands of dollars											
Crude oil	32,451,219	10,231,900	0	0	51,464	618,712	8,106,260	12,333,984	656,470	0	452,429
Synthetic crude oil	13,773,604	0	0	0	0	0	0	13,773,604	0	0	0
Crude bitumen	10,289,454	0	0	0	0	0	0	10,289,454	0	0	0
Condensate	794,327	0	343,692	0	0	0	0	349,322	101,312	0	0
Pentanes plus	3,914,644	0	0	0	0	0	16,397	3,687,708	170,986	0	39,552
Propane	2,959,926	0	51,295	0	0	0	13,633	2,785,238	109,760	0	0
Butanes	2,314,274	0	67,904	0	0	0	8,110	2,125,251	113,010	0	0
Ethane ¹	3,417,036	0	0	0	0	0	3,339	3,142,525	271,171	0	0
Natural gas	39,210,518	0	975,739	0	61,055	0	1,542,232	30,426,935	6,137,302	15,790	51,464
Elemental sulphur	202,675	0	0	0	0	0	0	189,051	13,624	0	0
Total value in dollars	109,327,677	10,231,900	1,438,630	0	112,519	618,712	9,689,971	79,103,072	7,573,635	15,790	543,445

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	80,572.3	21,380.6	0.0	0.0	109.4	1,289.1	24,822.6	30,424.5	1,529.2	0.0	1,016.9
Synthetic crude oil	30,509.7	0.0	0.0	0.0	0.0	0.0	0.0	30,509.7	0.0	0.0	0.0
Crude bitumen	39,907.9	0.0	0.0	0.0	0.0	0.0	0.0	39,907.9	0.0	0.0	0.0
Condensate	1,688.9	0.0	688.1	0.0	0.0	0.0	0.0	764.8	236.0	0.0	0.0
Pentanes plus	8,596.9	0.0	0.0	0.0	0.0	0.0	35.9	8,073.8	398.3	0.0	88.9
Propane	9,434.7	0.0	154.4	0.0	0.0	0.0	43.5	8,886.6	350.2	0.0	0.0
Butanes	6,169.0	0.0	158.0	0.0	0.0	0.0	21.7	5,686.9	302.4	0.0	0.0
Ethane ¹	15,757.6	0.0	0.0	0.0	0.0	0.0	15.4	14,491.7	1,250.5	0.0	0.0
millions of cubic metres											
Natural gas	167,195.2	0.0	4,080.2	0.0	212.9	0.0	6,685.3	129,113.7	26,806.3	72.8	224.0
thousands of metric tonnes											
Elemental sulphur	7,547.9	0.0	0.0	0.0	0.0	0.0	0.0	6,740.3	807.6	0.0	0.0
thousands of dollars											
Crude oil	32,451,219	10,231,900	0	0	51,464	618,712	8,106,260	12,333,984	656,470	0	452,429
Synthetic crude oil	13,773,604	0	0	0	0	0	0	13,773,604	0	0	0
Crude bitumen	10,289,454	0	0	0	0	0	0	10,289,454	0	0	0
Condensate	794,327	0	343,692	0	0	0	0	349,322	101,312	0	0
Pentanes plus	3,914,644	0	0	0	0	0	16,397	3,687,708	170,986	0	39,552
Propane	2,959,926	0	51,295	0	0	0	13,633	2,785,238	109,760	0	0
Butanes	2,314,274	0	67,904	0	0	0	8,110	2,125,251	113,010	0	0
Ethane ¹	3,417,036	0	0	0	0	0	3,339	3,142,525	271,171	0	0
Natural gas	39,210,518	0	975,739	0	61,055	0	1,542,232	30,426,935	6,137,302	15,790	51,464
Elemental sulphur	215,833	0	0	0	0	0	0	202,209	13,624	0	0
Total value in dollars	109,340,835	10,231,900	1,438,630	0	112,519	618,712	9,689,971	79,116,230	7,573,635	15,790	534,445

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, 2007

	Canada	Eastcoast offshore ¹	Arctic Islands ²	Mackenzie Delta-Beaufort Sea ²	Mainland territories ²	Eastern Canada
thousands of cubic metres						
Conventional crude oil						
Remaining reserves at the 31 st of December, 2006	785,690	255,244	0	53,950	4,767	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	92,816	30,941	0	0	0	0
Total crude oil	878,506	286,185	0	53,950	4,767	0
2007 net production ³	81,169	21,376	0	0	1,018	0
Remaining reserves at the 31 st of December, 2007	797,337	264,809	0	53,950	3,749	0
Net change in reserves during 2007	11,647	9,565	0	0	-1,018	0
Pentanes plus						
Remaining reserves at 31 st of December, 2006	71,223	7,166	0	0	2,616	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	4,744	0	0	0	0	0
Total pentanes plus	75,967	7,166	0	0	2,616	0
2007 net production ³	9,139	223	0	0	57	0
Remaining reserves at 31 st of December, 2007	66,828	6,943	0	0	2,559	0
Net change in reserves during 2007	-4,395	-223	0	0	-57	0
Total remaining conventional crude oil and equivalent reserves	864,165	271,752	0	53,950	6,308	0
millions of cubic metres						
Marketable natural gas						
Remaining reserves at 31 st of December, 2006	1,639,712	11,644	0	0	10,241	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	168,974	500	0	0	0	0
Total marketable natural gas	1,808,686	12,144	0	0	10,241	105
Net change in underground storage	0	0	0	0	0	0
2007 net production ^{3, 4}	174,862	4,181	0	0	246	0
Remaining reserves at 31 st of December, 2007	1,633,824	7,963	0	0	9,995	105
Non-associated	1,436,954	7,963	0	0	8,927	105
Associated	196,870	0	0	0	1,068	0
Dissolved	0	0	0	0	0	0
Underground storage	0	0	0	0	0	0
Net change in reserves during 2007	-5,888	-3,681	0	0	-246	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, 2007

	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia
thousands of cubic metres					
Conventional crude oil					
Remaining reserves at the 31 st of December, 2006	1,672	7,079	179,882	264,431	18,665
Positive revisions	0	0	0	0	0
Negative revisions	0	0	0	0	0
Extensions	0	0	0	0	0
Gross additions	56	1,255	35,954	24,611	-1
Total crude oil	1,728	8,334	215,836	289,042	18,664
2007 net production ³	108	1,288	25,347	30,497	1,535
Remaining reserves at the 31 st of December, 2007	1,620	7,046	190,489	258,545	17,129
Net change in reserves during 2007	-52	-33	10,607	-5,886	-1,536
Pentanes plus					
Remaining reserves at 31 st of December, 2006	0	0	237	52,984	8,220
Positive revisions	0	0	0	0	0
Negative revisions	0	0	0	0	0
Extensions	0	0	0	0	0
Gross additions	0	0	54	5,229	-539
Total pentanes plus	0	0	291	58,213	7,681
2007 net production ³	0	0	88	8,320	451
Remaining reserves at 31 st of December, 2007	0	0	203	49,893	7,230
Net change in reserves during 2007	0	0	-34	-3,091	-990
Total remaining conventional crude oil and equivalent reserves	1,620	7,046	190,692	308,438	24,359
millions of cubic metres					
Marketable natural gas					
Remaining reserves at 31 st of December, 2006	20,006	0	98,829	1,131,234	367,653
Positive revisions	0	0	0	0	0
Negative revisions	0	0	0	0	0
Extensions	0	0	0	0	0
Gross additions	128	0	2,691	129,344	36,311
Total marketable natural gas	20,134	0	101,520	1,260,578	403,964
Net change in underground storage	0	0	0	0	0
2007 net production ^{3, 4}	292	0	6,460	135,648	28,035
Remaining reserves at 31 st of December, 2007	19,842	0	95,060	1,124,930	375,929
Non-associated	19,842	0	93,125	944,062	362,930
Associated	0	0	1,935	180,868	12,999
Dissolved	0	0	0	0	0
Underground storage	0	0	0	0	0
Net change in reserves during 2007	-164	0	-3,769	-6,304	8,276

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 — 2006

	Offshore Newfoundland	Offshore Nova Scotia	Ontario	Manitoba	Saskat- chewan ¹	Alberta
thousands of cubic metres						
Supply						
Domestic production:						
Crude oil						
Light and medium	17,620.4	0.0	125.0	1,240.6	5,494.1	20,861.0
Heavy	0.0	0.0	0.0	0.0	19,344.1	10,642.4
Synthetic crude oil	0.0	0.0	0.0	0.0	0.0	28,764.2
Crude bitumen	0.0	0.0	0.0	0.0	0.0	36,942.4
Less returned to formation	0.0	0.0	0.0	0.0	0.0	0.0
Total	17,620.4	0.0	125.0	1,240.6	24,838.2	97,210.0
Condensate	0.0	698.1	0.0	0.0	0.0	640.1
Pentanes plus	0.0	0.0	0.0	0.0	29.2	8,167.7
Net withdrawals	17,620.4	698.1	125.0	1,240.6	24,867.4	106,017.8
Imports	0.0	0.0	0.0	0.0	0.0	0.0
Total supply	17,620.4	698.1	125.0	1,240.6	24,867.4	106,017.8
Disposition						
Deliveries to refineries:						
Atlantic provinces	4,268.2	0.0	0.0	0.0	0.0	0.0
Quebec	1,459.4	0.0	0.0	0.0	0.0	0.0
Ontario	2,139.4	0.0	125.0	693.9	1,911.6	8,079.0
Manitoba	0.0	0.0	0.0	0.0	0.0	0.0
Saskatchewan	0.0	0.0	0.0	0.0	4,242.1	1,548.9
Alberta	0.0	0.0	0.0	0.0	545.4	23,739.4
British Columbia	0.0	0.0	0.0	0.0	0.0	2,172.1
Northwest Territories	0.0	0.0	0.0	0.0	0.0	0.0
Total	7,867.0	0.0	125.0	693.9	6,699.1	35,539.4
Export to United States						
Petroleum administration						
East Coast	8,077.3	317.2	0.0	154.5	2,905.6	592.1
Midwest	0.0	0.0	0.0	111.0	16,002.4	45,193.0
Gulf Coast	1,277.0	0.0	0.0	0.0	0.0	666.5
Rocky Mountains	0.0	0.0	0.0	0.0	153.2	20,891.9
West Coast	0.0	0.0	0.0	0.0	0.0	5,987.4
Total United States	9,354.3	317.2	0.0	265.5	19,061.2	73,330.9
Other countries	278.6	0.0	0.0	0.0	0.0	0.0
Total exports	9,632.9	317.2	0.0	265.5	19,061.2	73,330.9
Net inventory changes	120.5	380.9	0.0	281.2	-80.2	-845.9
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	-812.7	-2,006.6
Total disposition	17,620.4	698.1	125.0	1,240.6	24,867.4	106,017.8

See footnotes at the end of the table.

Table 7-1 – continued

Supply and disposition of crude oil and equivalent by source, Canada — 2006

	British Columbia	Northwest Territories	Total Canadian sources	Total foreign sources	Total all sources
thousands of cubic metres					
Supply					
Domestic production:					
Crude oil					
Light and medium	1,670.6	1,082.8	48,094.5	0.0	48,094.5
Heavy	0.0	0.0	29,986.5	0.0	29,986.5
Synthetic crude oil	0.0	0.0	28,764.2	0.0	28,764.2
Crude bitumen	0.0	0.0	36,942.4	0.0	36,942.4
Less returned to formation	0.0	0.0	0.0	0.0	0.0
Total	1,670.6	1,082.8	143,787.6	0.0	143,787.6
Condensate	226.0	0.0	1,564.2	0.0	1,564.2
Pentanes plus	464.0	86.4	8,747.3	0.0	8,747.3
Net withdrawals	2,360.6	1,169.2	154,099.1	0.0	154,099.1
Imports	0.0	0.0	0.0	49,303.1	49,303.1
Total supply	2,360.6	1,169.2	154,099.1	49,303.1	203,402.2
Disposition					
Deliveries to refineries:					
Atlantic provinces	0.0	0.0	4,268.2	19,190.7	23,458.9
Quebec	0.0	0.0	1,459.4	22,889.5	24,348.9
Ontario	0.0	1,099.7	14,048.6	7,222.9	21,271.5
Manitoba	0.0	0.0	0.0	0.0	0.0
Saskatchewan	0.0	0.0	5,791.0	0.0	5,791.0
Alberta	1,002.0	0.0	25,286.8	0.0	25,286.8
British Columbia	1,019.8	0.0	3,191.9	0.0	3,191.9
Northwest Territories	0.0	0.0	0.0	0.0	0.0
Total	2,021.8	1,099.7	54,045.9	49,303.1	103,349.0
Export to United States					
Petroleum administration					
East Coast	0.0	0.0	12,046.7	0.0	12,046.7
Midwest	0.0	0.0	61,306.4	0.0	61,306.4
Gulf Coast	0.0	0.0	1,943.5	0.0	1,943.5
Rocky Mountains	0.0	0.0	21,045.1	0.0	21,045.1
West Coast	162.8	0.0	6,150.2	0.0	6,150.2
Total United States	162.8	0.0	102,491.9	0.0	102,491.9
Other countries	0.0	0.0	278.6	0.0	278.6
Total exports	162.8	0.0	102,770.5	0.0	102,770.5
Net inventory changes	0.0	-2.0	-145.5	0.0	-145.5
Deliveries to other purchasers	0.0	0.0	0.0	0.0	0.0
Losses and adjustments	176.0	71.5	-2,571.8	0.0	-2,571.8
Total disposition	2,360.6	1,169.2	154,099.1	49,303.1	203,402.2

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 — 2007

	Offshore Newfoundland	Offshore Nova Scotia	Ontario	Manitoba	Saskat- chewan ¹	Alberta
thousands of cubic metres						
Supply						
Domestic production:						
Crude oil						
Light and medium	21,380.6	0.0	109.4	1,289.1	6,097.1	20,127.9
Heavy	0.0	0.0	0.0	0.0	18,725.5	10,296.6
Synthetic crude oil	0.0	0.0	0.0	0.0	0.0	30,509.7
Crude bitumen	0.0	0.0	0.0	0.0	0.0	39,907.9
Less returned to formation	0.0	0.0	0.0	0.0	0.0	0.0
Total	21,380.6	0.0	109.4	1,289.1	24,822.6	100,842.1
Condensate	0.0	688.1	0.0	0.0	0.0	764.8
Pentanes plus	0.0	0.0	0.0	0.0	35.9	8,073.8
Net withdrawals	21,380.6	688.1	109.4	1,289.1	24,858.5	109,680.7
Imports	0.0	0.0	0.0	0.0	0.0	0.0
Total supply	21,380.6	688.1	109.4	1,289.1	24,858.5	109,680.7
Disposition						
Deliveries to refineries:						
Atlantic provinces	6,316.1	0.0	0.0	0.0	0.0	0.0
Quebec	1,987.8	0.0	0.0	0.0	0.0	0.0
Ontario	610.9	0.0	109.4	940.1	1,468.3	9,809.0
Manitoba	0.0	0.0	0.0	0.0	0.0	0.0
Saskatchewan	0.0	0.0	0.0	0.0	4,256.7	1,528.9
Alberta	0.0	0.0	0.0	0.0	480.9	25,112.2
British Columbia	0.0	0.0	0.0	0.0	0.0	2,288.1
Northwest Territories	0.0	0.0	0.0	0.0	0.0	0.0
Total	8,914.8	0.0	109.4	940.1	6,205.9	38,738.2
Export to United States						
Petroleum administration						
East Coast	10,250.3	378.1	0.0	149.6	2,307.6	754.2
Midwest	0.0	0.0	0.0	684.9	16,475.8	44,522.2
Gulf Coast	1,580.6	202.2	0.0	0.0	0.0	0.0
Rocky Mountains	0.0	0.0	0.0	0.0	191.7	19,478.8
West Coast	0.0	0.0	0.0	0.0	0.0	7,307.4
Total United States	11,830.9	580.3	0.0	834.5	18,975.1	72,062.6
Other countries	213.7	0.0	0.0	0.0	0.0	911.9
Total exports	12,044.6	580.3	0.0	834.5	18,975.1	72,974.5
Net inventory changes	421.2	107.8	0.0	89.3	-31.7	40.8
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	-574.8	-290.8	-2,072.8
Total disposition	21,380.6	688.1	109.4	1,289.1	24,858.5	109,680.7

See footnotes at the end of the table.

Table 7-2 – continued

Supply and disposition of crude oil and equivalent by source, Canada — 2007

	British Columbia	Northwest Territories	Total Canadian sources	Total foreign sources	Total all sources
thousands of cubic metres					
Supply					
Domestic production:					
Crude oil					
Light and medium	1,529.2	1,016.9	51,550.2	0.0	51,550.2
Heavy	0.0	0.0	29,022.1	0.0	29,022.1
Synthetic crude oil	0.0	0.0	30,509.7	0.0	30,509.7
Crude bitumen	0.0	0.0	39,907.9	0.0	39,907.9
Less returned to formation	0.0	0.0	0.0	0.0	0.0
Total	1,529.2	1,016.9	150,989.9	0.0	150,989.9
Condensate	236.0	0.0	1,688.9	0.0	1,688.9
Pentanes plus	398.3	88.9	8,596.9	0.0	8,596.9
Net withdrawals	2,163.5	1,105.8	161,275.7	0.0	161,275.7
Imports	0.0	0.0	0.0	49,879.6	49,879.6
Total supply	2,163.5	1,105.8	161,275.7	49,879.6	211,155.3
Disposition					
Deliveries to refineries:					
Atlantic provinces	0.0	0.0	6,316.1	18,690.0	25,006.1
Quebec	0.0	0.0	1,987.8	23,134.7	25,122.5
Ontario	0.0	1,055.6	13,993.3	8,054.9	22,048.2
Manitoba	0.0	0.0	0.0	0.0	0.0
Saskatchewan	0.0	0.0	5,785.6	0.0	5,785.6
Alberta	699.8	0.0	26,292.9	0.0	26,292.9
British Columbia	964.7	0.0	3,252.8	0.0	3,252.8
Northwest Territories	0.0	0.0	0.0	0.0	0.0
Total	1,664.5	1,055.6	57,628.5	49,879.6	107,508.1
Export to United States					
Petroleum administration					
East Coast	0.0	0.0	13,839.8	0.0	13,839.8
Midwest	0.0	0.0	61,682.9	0.0	61,682.9
Gulf Coast	0.0	0.0	1,782.8	0.0	1,782.8
Rocky Mountains	0.0	0.0	19,670.5	0.0	19,670.5
West Coast	383.6	0.0	7,691.0	0.0	7,691.0
Total United States	383.6	0.0	104,667.0	0.0	104,667.0
Other countries	0.0	0.0	1,125.6	0.0	1,125.6
Total exports	383.6	0.0	105,792.6	0.0	105,792.6
Net inventory changes	-1.4	-0.2	625.8	0.0	625.8
Deliveries to other purchasers	0.0	0.0	0.0	0.0	0.0
Losses and adjustments	116.8	50.4	-2,771.2	0.0	-2,771.2
Total disposition	2,163.5	1,105.8	161,275.7	49,879.6	211,155.3

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 — 2006

	Newfoundland and Labrador	Nova Scotia	Ontario	Saskat- chewan	Alberta	British Columbia
millions of cubic metres at 101.325 kPa and 15°C.						
Field and processing plants						
Supply						
Gross new production	3,568.4	3,794.7	259.3	9,580.6	167,385.1	35,410.9
Less field flared and waste	425.9	3.5	0.0	536.2	1,005.4	119.2
Net new production	3,142.5	3,791.2	259.3	9,044.4	166,379.7	35,291.7
Reproduced	0.0	0.0	0.0	0.0	0.0	0.0
Less injected and stored	2,878.9	0.0	0.0	0.0	12,621.6	0.0
Net withdrawals	263.6	3,791.2	259.3	9,044.4	153,758.1	35,291.7
Disposition						
Field disposition and uses	263.6	0.0	0.0	1,058.6	3,539.2	1,780.9
Gathering system disposition and uses	0.0	20.6	0.0	433.7	3,635.6	0.0
Processing plant disposition and uses						
Processing and re-processing shrinkage	0.0	350.2	0.0	80.6	14,906.3	2,039.7
Other disposition and uses	0.0	0.0	0.0	95.4	4,928.5	918.1
Other uses	0.0	0.0	0.0	0.0	0.0	0.0
Adjustment	0.0	-119.1	0.0	31.6	-5,654.3	2,757.6
Deliveries of marketable gas to transport and distribution systems	0.0	3,539.5	259.3	7,344.5	132,402.8	27,795.4
Total disposition	263.6	3,791.2	259.3	9,044.4	153,758.1	35,291.7
Gas utilities						
Supply						
Total marketable gas	0.0	3,539.5	259.3	7,344.5	132,402.8	27,795.4
Receipts from distributor storage	0.0	0.0	0.0	443.5	16,618.8	1,241.0
Imports	0.0	0.0	0.0	0.0	0.0	0.0
Other receipts ¹	0.0	0.0	0.0	0.0	0.0	0.0
Total supply of marketable gas	0.0	3,539.5	259.3	7,788.0	149,021.6	29,036.4
Disposition						
Utility sales (excluding direct sales)						
British Columbia	0.0	0.0	0.0	0.0	637.6	2,645.2
Alberta	0.0	0.0	0.0	0.0	17,679.5	5,855.1
Saskatchewan	0.0	0.0	0.0	1,538.2	0.0	0.0
Manitoba	0.0	0.0	0.0	0.0	1,122.3	0.0
Ontario	0.0	0.0	259.3	1,983.6	10,591.0	1,550.1
Quebec	0.0	0.0	0.0	0.0	3,987.4	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
Total utility sales	0.0	0.0	259.3	3,521.8	34,017.8	10,050.4
Exports	0.0	2,620.7	0.0	70.1	88,280.0	11,130.9
Direct sales ^{2, 3}	0.0	934.1	0.0	2,487.3	14,216.0	3,539.4
Delivered to distributor storage	0.0	0.0	0.0	878.1	5,007.0	1,845.1
Line pack fluctuation	0.0	-2.1	0.0	6.7	-82.2	4.2
Pipeline fuel	0.0	24.0	0.0	61.5	4,577.0	272.5
Pipeline losses and unaccounted volumes	0.0	-37.2	0.0	762.5	3,006.0	2,193.9
Total disposition of marketable gas	0.0	3,539.5	259.3	7,788.0	149,021.6	29,036.4

See footnotes at the end of the table.

Table 8-1 – continued

Supply and disposition of natural gas, by source, Canada — 2006

	Yukon	Northwest Territories	Total Canadian sources	Total foreign sources	Total all sources
millions of cubic metres at 101.325 kPa and 15°C.					
Field and processing plants					
Supply					
Gross new production	152.8	279.8	220,431.6	0.0	220,431.6
Less field flared and waste	1.1	0.4	2,091.7	0.0	2,091.7
Net new production	151.7	279.4	218,339.9	0.0	218,339.9
Reproduced	0.0	0.0	0.0	0.0	0.0
Less injected and stored	0.0	0.0	15,500.5	0.0	15,500.5
Net withdrawals	151.7	279.4	202,839.4	0.0	202,839.4
Disposition					
Field disposition and uses	0.0	0.0	6,642.3	0.0	6,642.3
Gathering system disposition and uses	0.0	0.0	4,089.9	0.0	4,089.9
Processing plant disposition and uses					
Processing and re-processing shrinkage	25.7	11.0	17,413.5	0.0	17,413.5
Other disposition and uses	13.9	32.0	5,987.9	0.0	5,987.9
Other uses	0.0	0.0	0.0	0.0	0.0
Adjustment	0.0	0.0	-2,984.2	0.0	-2,984.2
Deliveries of marketable gas to transport and distribution systems	112.1	236.4	171,690.0	0.0	171,690.0
Total disposition	151.7	279.4	202,839.4	0.0	202,839.4
Gas utilities					
Supply					
Total marketable gas	112.1	236.4	171,690.0	0.0	171,690.0
Receipts from distributor storage	0.0	0.0	18,303.3	0.0	18,303.3
Imports	0.0	0.0	0.0	9,653.4	9,653.4
Other receipts ¹	0.0	0.0	0.0	0.0	0.0
Total supply of marketable gas	112.1	236.4	189,993.3	9,653.4	199,646.7
Disposition					
Utility sales (excluding direct sales)					
British Columbia	112.1	139.6	3,534.5	0.0	3,534.5
Alberta	0.0	0.0	23,534.6	0.0	23,534.6
Saskatchewan	0.0	0.0	1,538.2	0.0	1,538.2
Manitoba	0.0	0.0	1,122.3	0.0	1,122.3
Ontario	0.0	0.0	14,384.0	0.0	14,384.0
Quebec	0.0	0.0	3,987.4	0.0	3,987.4
New Brunswick	0.0	0.0	0.0	0.0	0.0
Northwest Territories	0.0	96.8	96.8	0.0	96.8
Total utility sales	112.1	236.4	48,197.8	0.0	48,197.8
Exports	0.0	0.0	102,101.7	0.0	102,101.7
Direct sales ^{2, 3}	0.0	0.0	21,176.8	0.0	21,176.8
Delivered to distributor storage	0.0	0.0	7,730.2	9,653.4	17,383.6
Line pack fluctuation	0.0	0.0	-73.4	0.0	-73.4
Pipeline fuel	0.0	0.0	4,935.0	0.0	4,935.0
Pipeline losses and unaccounted volumes	0.0	0.0	5,925.2	0.0	5,925.2
Total disposition of marketable gas	112.1	236.4	189,993.3	9,653.4	199,646.7

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 — 2007

	Newfoundland and Labrador	Nova Scotia	Ontario	Saskat- chewan	Alberta	British Columbia
millions of cubic metres at 101.325 kPa and 15°C.						
Field and processing plants						
Supply						
Gross new production	4,466.9	4,392.9	212.9	8,844.9	165,586.7	31,775.3
Less field flared and waste	339.5	3.6	0.0	468.1	987.1	117.1
Net new production	4,127.4	4,389.3	212.9	8,376.8	164,599.6	31,658.2
Reproduced	0.0	0.0	0.0	0.0	0.0	0.0
Less injected and stored	3,746.8	0.0	0.0	0.0	12,339.3	1,219.6
Net withdrawals	380.6	4,389.3	212.9	8,376.8	152,260.3	30,438.6
Disposition						
Field disposition and uses	380.6	0.0	0.0	969.4	3,843.6	1,352.6
Gathering system disposition and uses	0.0	68.5	0.0	394.4	3,697.4	133.2
Processing plant disposition and uses						
Processing and re-processing shrinkage	0.0	312.4	0.0	73.6	14,208.0	2,406.5
Other disposition and uses	0.0	0.0	0.0	87.0	4,890.5	1,065.2
Other uses	0.0	0.0	0.0	0.0	0.0	0.0
Adjustment	0.0	-71.8	0.0	167.1	-3,492.9	-1,330.2
Deliveries of marketable gas to transport and distribution systems	0.0	4,080.2	212.9	6,685.3	129,113.7	26,811.3
Total disposition	380.6	4,389.3	212.9	8,376.8	152,260.3	30,438.6
Gas utilities						
Supply						
Total marketable gas	0.0	4,080.2	212.9	6,685.3	129,113.7	26,811.3
Receipts from distributor storage	0.0	0.0	0.0	605.7	27,652.2	1,454.5
Imports	0.0	0.0	0.0	0.0	0.0	0.0
Other receipts ¹	0.0	0.0	0.0	0.0	0.0	0.0
Total supply of marketable gas	0.0	4,080.2	212.9	7,291.0	156,765.9	28,265.8
Disposition						
Utility sales (excluding direct sales)						
British Columbia	0.0	0.0	0.0	0.0	842.1	3,066.7
Alberta	0.0	0.0	0.0	0.0	21,878.4	5,458.1
Saskatchewan	0.0	0.0	0.0	1,528.9	0.0	0.0
Manitoba	0.0	0.0	0.0	0.0	1,227.7	0.0
Ontario	0.0	0.0	212.9	2,130.5	11,426.7	2,257.0
Quebec	0.0	0.0	0.0	0.0	4,136.2	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
Total utility sales	0.0	0.0	212.9	3,659.4	39,511.1	10,781.8
Exports	0.0	3,218.0	0.0	0.9	96,155.0	10,531.6
Direct sales ^{2, 3}	0.0	1,068.7	0.0	2,490.6	15,037.5	3,793.4
Delivered to distributor storage	0.0	0.0	0.0	873.5	4,449.0	2,100.3
Line pack fluctuation	0.0	1.1	0.0	14.7	-230.3	8.8
Pipeline fuel	0.0	31.6	0.0	61.4	4,206.7	317.4
Pipeline losses and unaccounted volumes	0.0	-239.2	0.0	190.5	-2,363.1	732.5
Total disposition of marketable gas	0.0	4,080.2	212.9	7,291.0	156,765.9	28,265.8

See footnotes at the end of the table.

Table 8-2 – continued

Supply and disposition of natural gas, by source, Canada — 2007

	Yukon	Northwest Territories	Total Canadian sources	Total foreign sources	Total all sources
millions of cubic metres at 101.325 kPa and 15°C.					
Field and processing plants					
Supply					
Gross new production	102.6	266.3	215,648.5	0.0	215,648.5
Less field flared and waste	1.1	1.4	1,917.9	0.0	1,917.9
Net new production	101.5	264.9	213,730.6	0.0	213,730.6
Reproduced	0.0	0.0	0.0	0.0	0.0
Less injected and stored	0.0	0.0	17,305.7	0.0	17,305.7
Net withdrawals	101.5	264.9	196,424.9	0.0	196,424.9
Disposition					
Field disposition and uses	0.0	0.0	6,546.2	0.0	6,546.2
Gathering system disposition and uses	0.0	0.0	4,293.5	0.0	4,293.5
Processing plant disposition and uses					
Processing and re-processing shrinkage	18.2	8.7	17,027.4	0.0	17,027.4
Other disposition and uses	10.5	34.9	6,087.8	0.0	6,087.8
Other uses	0.0	0.0	0.0	0.0	0.0
Adjustment	0.0	0.0	-4,727.8	0.0	-4,727.8
Deliveries of marketable gas to transport and distribution systems	72.8	221.6	167,197.8	0.0	167,197.8
Total disposition	101.5	264.9	196,424.9	0.0	196,424.9
Gas utilities					
Supply					
Total marketable gas	72.8	221.6	167,197.8	0.0	167,197.8
Receipts from distributor storage	0.0	0.0	29,712.4	0.0	29,712.4
Imports	0.0	0.0	0.0	12,455.0	12,455.0
Other receipts ¹	0.0	0.0	0.0	0.0	0.0
Total supply of marketable gas	72.8	221.6	196,910.2	12,455.0	209,365.2
Disposition					
Utility sales (excluding direct sales)					
British Columbia	72.8	130.9	4,112.5	0.0	4,112.5
Alberta	0.0	0.0	27,336.5	0.0	27,336.5
Saskatchewan	0.0	0.0	1,528.9	0.0	1,528.9
Manitoba	0.0	0.0	1,227.7	0.0	1,227.7
Ontario	0.0	0.0	16,027.1	0.0	16,027.1
Quebec	0.0	0.0	4,136.2	0.0	4,136.2
New Brunswick	0.0	0.0	0.0	0.0	0.0
Northwest Territories	0.0	90.7	90.7	0.0	90.7
Total utility sales	72.8	221.6	54,459.6	0.0	54,459.6
Exports	0.0	0.0	109,905.5	0.0	109,905.5
Direct sales ^{2, 3}	0.0	0.0	22,390.2	0.0	22,390.2
Delivered to distributor storage	0.0	0.0	7,422.8	12,455.0	19,877.8
Line pack fluctuation	0.0	0.0	-205.7	0.0	-205.7
Pipeline fuel	0.0	0.0	4,617.1	0.0	4,617.1
Pipeline losses and unaccounted volumes	0.0	0.0	-1,679.3	0.0	-1,679.3
Total disposition of marketable gas	72.8	221.6	196,910.2	12,455.0	209,365.2

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 ¹				Direct sales ²	Total sales
	Residential	Commercial	Industrial	Total		
millions of cubic metres						
2007						
Nova Scotia	0.0	0.0	0.0	0.0	332.8	332.8
New Brunswick	0.0	0.0	0.0	0.0	736.0	736.0
Quebec	683.9	1,870.7	1,581.5	4,136.1	2,334.9	6,471.0
Ontario	9,523.8	5,573.0	930.3	16,027.1	10,856.4	26,883.5
Manitoba	519.8	663.2	44.8	1,227.8	889.0	2,116.8
Saskatchewan	907.6	608.5	13.0	1,529.1	3,985.4	5,514.5
Alberta	4,719.2	2,618.7	19,998.4	27,336.3	0.0	27,336.3
British Columbia	2,128.7	1,373.0	608.3	4,110.0	3,255.8	7,365.8
Canada	18,483.0	12,707.1	23,176.3	54,366.4	22,390.3	76,756.7
2006						
Nova Scotia	0.0	0.0	0.0	0.0	136.9	136.9
New Brunswick	0.0	0.0	0.0	0.0	797.2	797.2
Quebec	628.8	1,753.6	1,605.0	3,987.4	1,670.8	5,658.2
Ontario	8,230.9	5,263.0	890.2	14,384.1	10,870.3	25,254.4
Manitoba	460.3	612.6	49.5	1,122.4	847.3	1,969.7
Saskatchewan	844.6	678.0	15.5	1,538.1	3,890.2	5,428.3
Alberta	3,972.2	2,423.4	17,138.8	23,534.4	0.0	23,534.4
British Columbia	2,133.3	1,249.5	151.8	3,534.6	3,090.3	6,624.9
Canada	16,270.1	11,980.1	19,850.8	48,101.0	21,303.0	69,404.0

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, 2007

	Value
	thousands of dollars
Marketable production of Saskatchewan conventional crude oil – Table 5 ¹	8,106,260
Add: Value of sales of upgraded crude oil ²	2,701,130
Total value of marketable production of Saskatchewan crude oil ³	10,807,390

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

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

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

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.