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Oil and Gas Extraction

2004





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Statistics Canada Manufacturing, Construction and Energy Division

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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
- 0s 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

- The value of marketable production from crude oil, natural gas and natural gas liquids rose 11.5% during the year, from a total of \$76.5 billion in 2003 to a new high of \$85.3 billion in 2004.
- After rising by a record 36% last year, total well completions in 2004 were 24,874, up 6.5%.
- · Capital expenditures in the conventional sector rose by 12.6% in 2004 to reach \$26.8 billion, reflecting generally higher prices for all commodities.
- In Canada's oil sands region, the continuing development of non-conventional resources, through in-situ, mining and upgraders, increased overall capital expenditures by 25% to \$6.2 billion, after a drop to \$5.0 billion in 2003.

Analysis

Volumes —Tables 7 and 8

During 2004, the marketable production of crude oil and equivalent in Canada increased by 3.2%, to 149.4 million cubic metres from 144.8 million cubic metres. The production of non conventional crude oil (synthetic and crude bitumen) continued to increase as it has done for the past several years, supplementing and replacing conventional crude from older fields. Production of crude bitumen rose to 30.9 million cubic metres in 2004, an increase of 23.3% over the 25 million cubic metres produced in 2003. The production of marketable natural gas rose slightly by half a percentage point, to 167.4 billion cubic metres from 166.5 billion cubic metres in 2003.

Exports of Canadian natural gas to the U.S. increased 2.5% to 104 billion cubic metres, after a decline of 5.8% in 2003.

Exports of crude oil and equivalent to the U.S. again increased in 2004, rising by 4.5% to 93.2 million cubic metres from 89.1 million cubic metres in 2003.

Demand by Canadian refineries for domestically produced crude oil and equivalent increased by 5.4% during 2004, to 56.1 million cubic metres from 53.2 million cubic metres in 2003. Crude oil imports increased 3.1% during the year, rising to 54.3 million cubic metres from 52.7 million cubic metres in 2003.

Domestic sales of natural gas (including direct sales) fell by 1.2% in 2004, declining to 72 billion cubic metres from 72.9 billion cubic metres in 2003. Natural gas imports rose 12.2% in 2004, to go from 9.7 billion cubic metres to 10.9 billion cubic metres.

Values — Tables 4 and 5

In 2004, the total value of marketable production of hydrocarbons (including synthetic crude oil, natural gas, natural gas liquids, and elemental sulphur) rose by 11.4% to \$85.3 billion from \$76.5 billion in 2003. 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 20.9% to \$40.6 billion compared to \$33.6 billion in 2003 and natural gas rose to \$38.1 billion from \$37 billion last year. The value of natural gas processing plant products (propane, butane and ethane) increased by 9.8% to \$6.3 billion from \$5.7 billion, and elemental sulphur (from natural gas) increased to \$207.5 million from last year's level of \$152.6 million (an increase of 36%).

The Province of Alberta continued to dominate the overall value of marketable production in 2004, accounting for 74.3%, or \$63.4 billion of the total \$85.3 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 20.5% in 2004, to \$22.3 billion from \$20.5 billion in 2003. This year, royalty payments accounted for 53.1%, field and well operations 37.5%, natural gas processing plants 7.4%, and taxes 2%.

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 plants and other) increased in 2004 to \$26.8 billion from \$23.8 billion in 2003. Exploration

expenditures fell by 1.7% and development spending rose by 18.4%, for an overall increase of 12.5% in capital spending this year compared to 2003.

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

There was an increase in the total number of well completions (oil, gas, dry and others) during 2004, rising by 6.5% to 24,874 wells from 23,363 completions recorded in 2003. Exploratory drilling rose by 8.7% during the year to 5,515 completions from 5,074 wells, and development drilling increased by 7.2% to 16,475 wells from 15,372 completions. During 2004, the number of successful oil wells completed fell to 4,526 wells compared to 4,845 completions last year, and successful gas well completions increased by 16.8% to 15,126 wells compared to 12,951 gas wells completed last year.

Reserves — Table 6 and 2

Remaining established reserves of conventional crude oil and equivalent (excluding oilsands and bitumen) increased slightly by year end 2004 to 762,495,000 cubic metres from 749,911,000 cubic metres in 2003. The reserves replacement, or gross additions, amounted to roughly 114% of the volume of crude and equivalent produced during 2004. At this current rate of production, Canada's reserves of conventional crude oil and equivalent have an estimated economic life (reserves life index) of 8.4 years, up slightly over 2003 due to the current production level.

Synthetic crude oil and developed bitumen reserves are currently estimated to be 1,172,103,000 cubic metres, an increase of 1.8% over 2003. The reserves replacement (gross additions versus production) amounted to 136%, and its reserves life index stands at 20.5 years, down from 2003.

Marketable natural gas established reserves decreased slightly to 1,593 billion cubic metres from 1,594 billion cubic metres in the previous year. The volume of gross additions, by development drilling, replacing the production amounted to 99%. Based upon the amount of remaining established reserves and at the current level of production, the economic life of these reserves remains at 9.1 years, a marginal decrease over 2003. 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 2004
		mil	lions 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	1,985.7	4,105.1	92.3	6,183.1	47,714.7
Operating costs Including taxes, royalties, administration expense, other operating expenses	982.8	3,811.0	316.0	5,109.8	54,174.9
Total expenditures	2,968.5	7,916.1	408.3	11,292.9	101,889.6

Text table 2 Developed non-conventional oil reserves, 2004

	Mining – Integrated synthetic crude oil	In-situ bitumen
	thousands of cubic metres	
Remaining reserves at 31 st of		
December 2003	828,441	322,999
Gross additions in 2004	47,338	30,406
Reserves at 31 st of		
December 2003 plus 2004 gross		
additions	875,779	353,405
ess 2004 net production 1	34,544	22,537
Remaining reserves at 31 st of		
December 2004	841,235	330,868
Net change in reserves during 2004	12,794	7,869

Preliminary estimate.
 Source(s): Canadian Association of Petroleum Producers.

Text table 3 Value added, non-conventional oil sector¹, 2004

	Value of marketable production	Cost of fuel, electricity, materials and supplies	Value added – Producing activity
		millions of dollars	
Canada	14,947.1		

^{1.} Represents synthetic crude and crude bitumen producers.

Text table 4 **Royalty allocation**

	2004	2003	2002	2001	2000	1999
			millions of doll	ars		
Total royalties, Canada ¹ Federal crown royalties Provincial crown royalties	11,824.9 24.1 10,152.7	10,503.0 30.0 9,008.2	7,968.0 21.8 6,642.9	12,106.3 42.9 9,628.3	11,129.3 18.9 8,854.8	5,059.0 9.3 3,990.1 1,059.6
Provincial crown royalties Non-crown royalties and other	10,152.7 1,648.1	9,008.2 1,464.8	6,642.9 1,303.3	9,628.3 2,435.1		8,854.8 2,255.6

^{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

Statistical tables

Table 1
Principal statistics, 1 oil and gas extraction, conventional sector

-	Establishments		Producing ac	ctivity	
		Cost of electricity	Cost of materials and supplies and fuel	Value of marketable production	Value added
_	number		thousands of	dollars	
1993 1994 1995 1996 1997 1998 1999 2000 2001	626 671 728 703 711 761 756 738 709 697	477,458 513,980 545,102 584,824 	1,464,121 1,547,755 1,596,515 1,672,073 	19,058,705 21,871,403 20,817,680 26,707,674 27,183,922 22,628,989 30,632,888 55,967,429 56,272,820 48,513,608	17,117,126 19,809,668 18,676,063 24,450,777
2003 Newfoundland and Labrador Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Nunavut Northwest Territories Yukon Arctic Islands	0 1 3 4 5 14 19 155 310 106 0 20 4	 		0 0 0 0 129,680 159,902 6,474,009 45,131,722 6,449,471 0 515,037 48,087 0	
Offshore Newfoundland and Labrador Nova Scotia West Total	12 17 0 670	 	 	5,030,215 1,398,234 0 65,336,357	
2004 Newfoundland and Labrador Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Nunavut Northwest Territories Yukon Arctic Islands	3 2 3 5 5 14 18 153 322 96 0 22 4			0 0 0 0 133,692 195,637 7,274,982 48,414,048 6,788,032 0 517,823 33,945	
Offshore Newfoundland and Labrador Nova Scotia West Total	11 16 0 674	 	 	5,651,960 1,305,184 0 70,315,303	
Percentage change 2004/2003 2003/2002	0.6 -5.5	 	 	7.6 16.1	

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

Table 2 **Drilling completions**

-		Oi	<u> </u>			Ga	as	
	2003	2003	2004	2004	2003	2003	2004	2004
	number	metres	number	metres	number	metres	number	metres
Canada Exploratory wells ¹ Development wells Other ² Total	570 3,295 980 4,845	715,274 4,328,228 1,035,075 6,078,577	633 3,177 716 4,526	795,730 4,124,165 831,726 5,751,621	2,622 10,329 0 12,951	2,853,918 8,670,210 0 11,524,128	3,249 11,877 0 15,126	3,972,339 10,883,369 0 14,855,708
Eastern Canada Exploratory wells ¹ Development wells Other ² Total	2 18 0 20	4,454 71,051 0 75,505	2 13 0 15	763 49,801 0 50,564	16 24 0 40	14,007 23,202 0 37,209	27 58 0 85	16,545 40,011 0 56,556
Offshore Newfoundland Exploratory wells ¹ Development wells Other ² Total	1 14 0 15	3,460 63,459 0 66,919	0 9 0 9	0 43 809 0 43 809	0 0 0	0 0 0 0	0 0 0	0 0 0 0
Offshore Nova Scotia Exploratory wells ¹ Development wells Other ² Total	0 0 0	0 0 0 0	0 0 0	0 0 0 0	2 3 0 5	7,302 10,749 0 18,051	0 1 0 1	0 5,315 0 5,315
Newfoundland and Labrador Exploratory wells ¹ Development wells Other ² Total	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0
Prince Edward Island Exploratory wells ¹ Development wells Other ² Total	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0
Nova Scotia Exploratory wells 1 Development wells Other 2 Total	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0
New Brunswick Exploratory wells ¹ Development wells Other ² Total	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 1 0 1	0 3,260 0 3,260	0 0 0	0 0 0 0
Quebec Exploratory wells ¹ Development wells Other ² Total	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0
Ontario Exploratory wells 1 Development wells Other 2 Total	1 4 0 5	994 7,592 0 8,586	2 4 0 6	763 5,992 0 6,755	14 20 0 34	6,705 9,193 0 15,898	27 57 0 84	16,545 34,696 0 51,241
Western Canada Exploratory wells ¹ Development wells Other ² Total	568 3,277 980 4,825	710,820 4,257,177 1,035,075 6,003,072	631 3,164 716 4,511	794,967 4,074,364 831,726 5,701,057	2,606 10,305 0 12,911	2,839,911 8,647,008 0 11,486,919	3,222 11,819 0 15,041	3,955,794 10,843,358 0 14,799,152

Table 2 – continued

Drilling completions

	Oil				Gas				
	2003	2003	2004	2004	2003	2003	2004	2004	
	number	metres	number	metres	number	metres	number	metres	
Manitoba		40.405	40	42.050					
Exploratory wells ¹ Development wells	14 69	13,135 70,445	13 101	13,050 102,013	0 0	0	0 0	0	
Other 2	0	70, 44 5 0	0	102,013	0	0	0	0	
Total	83	83,580	114	115,063	0	0	0	0	
Total	03	05,500	117	113,003	U	U	U	U	
Saskatchewan									
Exploratory wells 1	284	262,152	313	301,134	748	476,973	592	409,207	
Development wells	1,339	1,484,812	1,440	1,679,165	1,539	896,659	1,395	822,495	
Other 2	0	0	0	0	0	0	0	0	
Total	1,623	1,746,964	1,753	1,980,299	2,287	1,373,632	1,987	1,231,702	
Alberta									
Exploratory wells 1	253	410.701	296	469.974	1.627	1.929.388	2,380	3.153.395	
Development wells	1,789	2,585,722	1,551	2,197,585	8,315	6,889,706	9,896	9,069,622	
Other 2	980	1.035.075	716	831,726	0	0	0	0	
Total	3,022	4,031,498	2,563	3,499,285	9,942	8,819,094	12,276	12,223,017	
British Columbia									
Exploratory wells 1	16	23,250	8	7.745	227	423.522	245	380.621	
Development wells	75	108,439	72	95,601	446	847,939	527	949,589	
Other ²	0	0	0	0	0	0	0	0	
Total	91	131,689	80	103,346	673	1,271,461	772	1,330,210	
Northwest Territories									
Exploratory wells 1	1	1,582	1	3,064	4	10,028	5	12,571	
Development wells	5	7,759	0	0	5	12,704	1	1,652	
Other ²	Ö	0	0	Ō	0	0	Ó	0	
Total	6	9,341	1	3,064	9	22,732	6	14,223	

Table 2 – continued **Drilling completions**

-		Abandoned and	d suspended			Tota	al	
	2003	2003	2004	2004	2003	2003	2004	2004
	number	metres	number	metres	number	metres	number	metres
Canada Exploratory wells ¹ Development wells Other ² Total	1,882 1,748 20 3,650	2,714,574 2,455,009 11,923 5,181,506	1,633 1,421 128 3,182	2,216,223 1,749,690 173,151 4,139,064	5,074 15,372 2,917 23,363	6,283,766 15,453,447 1,797,727 23,534,940	5,515 16,475 2,884 24,874	6,984,292 16,757,224 1,658,154 25,399,670
Eastern Canada Exploratory wells ¹ Development wells Other ² Total	30 35 0 65	46,786 27,817 0 74,603	10 5 0 15	26,040 7,086 0 33,126	48 77 12 137	65,247 122,070 23,675 210,992	39 76 22 137	43,348 96,898 48,085 188,331
Offshore Newfoundland Exploratory wells ¹ Development wells Other ² Total	2 0 0 2	6,726 0 0 6,726	0 0 0	0 0 0 0	3 14 7 24	10,186 63,459 21,584 95,229	0 9 11 20	0 43,809 41,581 85,390
Offshore Nova Scotia Exploratory wells ¹ Development wells Other ² Total	4 1 0 5	21,235 4,116 0 25,351	4 0 0 4	19,974 0 0 1 9,974	6 4 0 10	28,537 14,865 0 43,402	4 1 0 5	19,974 5,315 0 25,289
Newfoundland and Labrador Exploratory wells ¹ Development wells Other ² Total	1 0 0 1	500 0 0 5 00	0 0 0 0	0 0 0 0	1 0 0 1	500 0 0 500	0 0 0 0	0 0 0 0
Prince Edward Island Exploratory wells 1 Development wells Other 2 Total	2 0 0 2	3,206 0 0 3,206	0 0 0 0	0 0 0 0	2 0 0 2	3,206 0 0 3,206	0 0 0	0 0 0 0
Nova Scotia Exploratory wells 1 Development wells Other 2 Total	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
New Brunswick Exploratory wells ¹ Development wells Other ² Total	1 0 0 1	1,100 0 0 1,100	1 0 0 1	2,560 0 0 2,560	1 1 0 2	1,100 3,260 0 4,360	1 0 0 1	2,560 0 0 2,560
Quebec Exploratory wells ¹ Development wells Other ² Total	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
Ontario Exploratory wells ¹ Development wells Other ² Total	20 34 0 54	14,019 23,701 0 37,720	5 5 0 10	3,506 7,086 0 10,592	35 58 5 98	21,718 40,486 2,091 64,295	34 66 11 111	20,814 47,774 6,504 75,092
Western Canada Exploratory wells ¹ Development wells Other ² Total	1,852 1,713 20 3,585	2,667,788 2,427,192 11,923 5,106,903	1,623 1,416 128 3,167	2,190,183 1,742,604 173,151 4,105,938	5,026 15,295 2,905 23,226	6,218,519 15,331,377 1,774,052 23,323,948	5,476 16,399 2,862 24,737	6,940,944 16,660,326 1,610,069 25,211,339

Table 2 – continued **Drilling completions**

		Abandoned and	d suspended			Tota	al	
	2003	2003	2004	2004	2003	2003	2004	2004
	number	metres	number	metres	number	metres	number	metres
Manitoba Exploratory wells 1 Development wells Other 2 Total	6 7 0 13	5,241 6,372 0 11,613	12 7 0 19	11,027 7,130 0 18,157	20 76 10 106	18,376 76,817 9,086 104,279	25 108 0 133	24,077 109,143 0 133,220
Saskatchewan Exploratory wells ¹ Development wells Other ² Total	114 60 0 174	115,148 59,073 0 174,221	127 196 0 323	130,226 185,562 0 315,788	1,146 2,938 95 4,179	854,273 2,440,544 115,101 3,409,918	1,032 3,031 41 4,104	840,567 2,687,222 48,842 3,576,631
Alberta Exploratory wells 1 Development wells Other 2 Total	1,617 1,503 20 3,140	2,326,793 2,109,246 11,923 4,447,962	1,349 1,072 128 2,549	1,804,462 1,281,788 173,151 3,259,401	3,497 11,607 2,769 17,873	4,666,882 11,584,674 1,604,246 17,855,802	4,025 12,519 2,821 19,365	5,427,831 12,548,995 1,561,227 19,538,053
British Columbia Exploratory wells ¹ Development wells Other ² Total	112 125 0 237	212,244 219,549 0 431,793	126 139 0 265	224,258 265,189 0 489,447	355 646 31 1,032	659,016 1,175,927 45,619 1,880,562	379 738 0 1,117	612,624 1,310,379 0 1,923,003
Northwest Territories Exploratory wells ¹ Development wells Other ² Total	3 18 0 21	8,362 32,952 0 41,314	9 2 0 11	20,210 2,935 0 23,145	8 28 0 36	19,972 53,415 0 73,387	15 3 0 18	35,845 4,587 0 40,432

Includes new field wildcats, new pool wildcats, deeper pool tests, shallower pool tests and outposts.
 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, 2003

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta
				thou	sands of dol	lars			
Exploration Geological and geophysical operations Drilling Land acquisitions and rentals ¹ Total	0 0 0 0	550 1,345 0 1,895	0 2,245 103 2,348	1,420 1,505 0 2,925	9,648 4,727 1,341 15,716	1,616 18,801 2,642 23,059	730 15,508 880 17,118	65,685 288,566 203,415 557,666	638,627 2,153,961 1,303,934 4,096,522
Development Drilling Production facilities ² Enhanced recovery and pressure maintenance	0 0	0 0	0 0	0 1,482 0	0 0	22,414 8,565 0	38,379 13,429 0	870,578 454,640 31,518	6,890,704 3,839,576 80,072
Natural gas plants Non-production facilities Total	0 0 0	0 0 0	0 0 0	2,680 0 4,162	0 0 0	92 343 31,414	0 16 51,824	30,723 17,524 1,404,983	440,598 152,914 11,403,864
Operating Field and well operations Natural gas processing plants Taxes (excluding income tax) Other operating expenses	0 0 0	0 0 0	0 0 0	288 100 0 0	78 0 0	15,779 27,394 580 0	24,107 0 3,122 0	1,284,277 52,328 67,442 0	5,409,801 1,186,166 284,324 0
Total	Ö	Ō	Ō	388	78	43,753	27,229	1,404,047	6,880,291
Royalties ³ Total expenditures	0 0	0 1,895	0 2,348	204 7,679	0 15,794	20,012 118,238	22,651 118,822	1,121,534 4,488,230	7,757,800 30,138,477
		Nunavut	Northwest	Yukon	Arctic		Offsho	re	
	Columbia		Territories		Islands —	New- foundland	Hudson Bay	Nova Scotia	Canada
				thou	sands of dol	lars			
Exploration Geological and geophysical operations Drilling Land acquisitions and rentals ¹ Total	200,275 640,379 689,327 1,529,981	0 0 0 0	35,577 112,691 800 149,068	1,255 30 10 1,295	0 0 0 0	62,244 167,695 3,613 233,552	0	88,394 192,079 2,051 282,524	1,106,021 3,599,532 2,208,116 6,913,669
Development Drilling Production facilities ² Enhanced recovery and pressure	1,388,063 657,402	0 0	34,140 51,634	452 388	0	442,062 666,155	0	195,423 292,484	9,882,215 5,985,755
maintenance Natural gas plants Non-production facilities Total	230 205,980 4,902 2,256,577	0 0 0 0	0 32,171 2,830 120,775	0 0 0 840	0 0 0 0	17,100 0 0 1,125,317	0 0 0 0	0 35,757 779 524,443	128,920 748,001 179,308 16,924,199
Operating Field and well operations Natural gas processing plants Taxes (excluding income tax) Other operating expenses Total	763,961 214,318 25,826 0 1,004,105	0 0 0 0	52,394 4,848 2,062 0 59,304	5,807 2,497 163 0 8,467	0 0 0 0	375,342 0 250 0 375,592	0 0 0	121,390 42,817 1,603 0 165,810	8,053,224 1,530,468 385,372 0 9,969,064
Royalties ³ Total expenditures	1,413,347 6,204,010	0	25,453 354,600	4,548 15,150	0	114,702 1,849,163	0	22,668 995,445	10,502,919 44,309,851

^{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, 2004

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

^{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

	2001	2002	2003	2004
		thousands of cubic	metres	
Crude oil Synthetic crude oil Crude bitumen Condensate Pentanes plus Propane Butanes Ethane	79,935.6 20,260.6 17,953.9 1,134.8 9,665.6 10,165.4 6,065.3 13,090.5	83,900.4 25,494.6 17,481.6 1,196.9 8,896.3 8,811.5 5,119.3 14,932.8	84,690.0 25,028.8 25,029.0 1,180.8 8,884.6 9,123.8 5,477.0 14,838.9	81,759.8 26,927.3 30,854.7 1,134.9 8,739.4 9,019.6 5,380.5 15,661.6
		millions of cubic r	netres	
Natural gas	171,387.8	172,197.2	166,457.2	167,359.8
		thousands of metric	tonnes	
Elemental sulphur	7,835.5	7,384.9	6,764.9	7,486.2
		thousands of do	ollars	
Crude oil Synthetic crude oil Crude bitumen Condensate Pentanes plus Propane Butanes Ethane Natural gas Elemental sulphur Total value	15,153,811 4,995,003 1,873,762 287,533 2,601,844 1,930,190 1,152,061 1,493,032 33,677,530 -23,181 63,141,585	18,157,229 6,455,743 2,763,700 298,315 2,281,093 1,151,165 892,098 1,951,418 23,719,717 62,573 57,733,051	19,561,409 6,777,342 4,396,607 322,928 2,552,213 1,860,994 1,277,861 2,563,782 37,044,588 152,582 76,510,306	22,142,365 8,655,781 6,291,273 380,381 3,252,858 1,996,729 1,483,143 2,781,028 38,071,294 207,505 85,262,357

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

	Canada N	Offshore ewfoundland	Offshore Nova Scotia	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon	Northwest Territories
					thousands	s of cubic m	etres				
Crude oil											
2004	81,759.8	18,249.2	0.0	0.0	155.1	637.4	24,575.2	34,888.5	2,019.0	0.0	1,235.4
2003	84,690.0	19,550.0	0.0	0.0	195.2	633.0	24,331.4	36,527.9	2,168.2	0.0	1,284.3
Synthetic crude oil											
2004	26,927.3	0.0	0.0	0.0	0.0	0.0	0.0	26,927.3	0.0	0.0	0.0
2003	25,028.8	0.0	0.0	0.0	0.0	0.0	0.0	25,028.8	0.0	0.0	0.0
Crude bitumen											
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
2003	25,029.0	0.0	0.0	0.0	0.0	0.0	0.0	25,029.0	0.0	0.0	0.0
Condensate											
2004	1,134.9	0.0	463.2	0.0	0.0	0.0	0.0	502.0	169.7	0.0	0.0
2003	1,180.8	0.0	549.3	0.0	0.0	0.0	0.0	486.8	144.7	0.0	0.0
Pentanes plus	,										
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
2003	8,884.6	0.0	0.0	0.0	0.0	0.0	29.0	8,238.9	526.7	0.0	90.0
Propane	-,							-,			
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
2003	9,123.8	0.0	239.7	0.0	0.0	0.0	41.4	8,469.6	373.1	0.0	0.0
Butanes	-,							-,			
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
2003	5,477.0	0.0	157.7	0.0	0.0	0.0	22.4	4,986.0	310.9	0.0	0.0
Ethane 1	-,							,			
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
2003	14,838.9	0.0	0.0	0.0	0.0	0.0	0.0	13,741.8	1,097.1	0.0	0.0
					millions	of cubic me	tres				
Natural gas											
2004	200.480.6	262.1	4,324.3	0.0	273.0	0.0	8.891.1	155.664.1	31.201.3	185.5	731.0
2003	200,199.9	281.0	4,662.2	0.0	295.7	0.0	8,541.2		29,483.4	254.0	984.4
					thousands	of metric to	onnes				
Elemental sulphur											
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
2003	6.764.9	0.0	0.0	0.0	0.0	0.0	0.0	6.006.3	758.6	0.0	0.0

^{1.} Estimated before solvent flood.

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

	Canada N	Offshore lewfoundland	Offshore Nova Scotia	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon	Northwest Territories
					thousands	of cubic m	netres				
Crude oil	81,759.8	18,249.2	0.0	0.0	155.1	637.4	24,575.2	34,888.5	2,019.0	0.0	1,235.4
Synthetic crude oil	26,927.3	0.0	0.0	0.0	0.0	0.0	0.0	26,927.3	0.0	0.0	0.0
Crude bitumen	30,854.7	0.0	0.0	0.0	0.0	0.0	0.0	30,854.7	0.0	0.0	0.0
Condensate	1,134.9	0.0	463.2	0.0	0.0	0.0	0.0	502.0	169.7	0.0	0.0
Pentanes plus	8,739.4	0.0	0.0	0.0	0.0	0.0	28.2	8,099.9	520.0	0.0	91.3
Propane ·	9,019.6	0.0	185.1	0.0	0.0	0.0	44.7	8,397.4	392.4	0.0	0.0
Butanes	5,380.5	0.0	133.5	0.0	0.0	0.0	23.6	4,904.5	318.9	0.0	0.0
Ethane 1	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 me	etres				
Natural gas	167,359.8	0.0	4,174.0	0.0	273.0	0.0	7,397.2	128,804.6	26,000.0	143.8	567.2
					thousand	ds cubic tor	nnes				
Elemental sulphur	7,486.2	0.0	0.0	0.0	0.0	0.0	0.0	6,704.5	781.7	0.0	0.0
					thousa	nds of dolla	ars				
Crude oil	22.142.365	5.651.960	0	0	53.815	195.637	5,572,434	9.683.073	618.742	0	366.704
Synthetic crude oil	8,655,781	0	0	0	0	0	0	8,655,781	0	0	0
Crude bitumen	6,291,273	0	0	0	0	0	0	6,291,273	0	0	0
Condensate	380,381	0	155,079	0	0	0	0	175,303	49,999	0	0
Pentanes plus	3,252,858	0	0	0	0	0	9,613	3,047,587	166,436	0	29,222
Propane ·	1,996,729	0	40,579	0	0	0	9,062	1,865,147	81,941	0	0
Butanes	1,483,143	0	40,898	0	0	0	6,551	1,361,489	74,205	0	0
Ethane 1	2,781,028	0	0	0	0	0	0	2,604,334	169,734	0	0
Natural gas	38,071,294	0	1,068,628	0	79,877	0	1,670,362	29,475,645	5,620,940	33,945	121,897
Elemental sulphur	207,505	0	0	0	0	0	0	201,470	6,035	0	0
Total value in dollars	85,262,357	5,651,960	1,305,184	0	133,692	195,637	7,274,982	63,361,102	6,788,032	33,945	517,823

Estimated before solvent flood.
 Excludes volume of upgraded crude oil.
 Excludes value of upgraded crude oil. See reconciliation table 10.

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

	Canada N	Offshore ewfoundland	Offshore Nova Scotia	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon	Northwest Territories
					thousands	of cubic n	netres				
Crude oil	81,759.8	18,249.2	0.0	0.0	155.1	637.4	24,575.2	34,888.5	2,019.0	0.0	1,235.4
Synthetic crude oil	26,927.3	0.0	0.0	0.0	0.0	0.0	0.0	26,927.3	0.0	0.0	0.0
Crude bitumen	30,854.7	0.0	0.0	0.0	0.0	0.0	0.0	30,854.7	0.0	0.0	0.0
Condensate	1,134.9	0.0	463.2	0.0	0.0	0.0	0.0	502.0	169.7	0.0	0.0
Pentanes plus	8,739.4	0.0	0.0	0.0	0.0	0.0	28.2	8,099.9	520.0	0.0	91.3
Propane	8,811.5	0.0	185.1	0.0	0.0	0.0	44.7	8,397.4	392.4	0.0	0.0
Butanes	5,119.3	0.0	133.5	0.0	0.0	0.0	23.6	4,904.5	318.9	0.0	0.0
Ethane 1	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 me	etres				
Natural gas	172,197.2	0.0	4,174.0	0.0	273.0	0.0	7,397.2	128,804.6	26,000.0	143.8	567.2
					thousands	of metric t	onnes				
Elemental sulphur	6,238.2	0.0	0.0	0.0	0.0	0.0	0.0	5,456.5	781.7	0.0	0.0
					thousa	nds of dolla	ars				
Crude oil	22.142.365	5,651,960	0	0	53.815	195,637	5,572,434	9.683.073	618,742	0	366,704
Synthetic crude oil	8,655,781	0	0	0	0	0	0	8,655,781	0	0	0
Crude bitumen	6,291,273	0	0	0	0	0	0	6,291,273	0	0	0
Condensate	380,381	0	155,079	0	0	0	0	175,303	49,999	0	0
Pentanes plus	3,252,858	0	0	0	0	0	9,613	3,047,587	166,436	0	29,222
Propane .	1,996,729	0	40,579	0	0	0	9,062	1,865,147	81,941	0	0
Butanes	1,483,143	0	40,898	0	0	0	6,551	1,361,489	74,205	0	0
Ethane 1	2,781,028	0	0	0	0	0	6,960	2,604,334	169,734	0	0
Natural gas	38,071,294	0	1,068,628	0	79,877	0	1,670,362	29,475,645	5,620,940	33,945	121,897
Elemental sulphur	170,004	0	0	0	0	0	0	163,969	6,035	0	0
Total value in dollars	85,224,856	5,651,960	1,305,184	0	133,692	195,637	7,274,982	63,323,601	6,788,032	33,945	517,823

^{1.} Estimated before solvent flood.

Excludes volume of upgraded crude oil.
 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, 2004

	Canada	Eastcoast ¹ offshore	Arctic ² Islands De	Mackenzie ² elta-Beaufort Sea	Mainland ² territories	Eastern Canada
		t	housands of cubi	c metres		
Conventional crude oil Remaining reserves at the 31 st of December, 2003 Positive revisions Negative revisions Extensions Gross additions Total crude oil	676,287 0 0 0 97,629 773,916	121,197 0 0 0 0 35,750 156,947	0 0 0 0 0	53,950 0 0 0 0 53,950	7,733 0 0 0 291 8,024	0 0 0 0 0
2004 net production ³ Remaining reserves at the 31 st of December, 2004 Net change in reserves during 2004	81,975 691,941 15,654	18,248 138,699 17,502	0 0 0	0 53,950 0	1,236 6,788 -945	0 0 0
Pentanes plus Remaining reserves at 31 st of December, 2003 Positive revisions Negative revisions Extensions Gross additions Total pentanes plus	73,624 0 0 0 6,994 80,618	7,801 0 0 0 0 7,801	0 0 0 0 0	0 0 0 0 0	2,789 0 0 0 0 0 2,789	0 0 0 0 0
2004 net production ³ Remaining reserves at 31 st of December, 2004 Net change in reserves during 2004 Total remaining conventional crude oil and equivalent reserves	10,064 70,554 -3,070 762,495	253 7,548 -253 146,247	0 0 0	0 0 0 53,950	58 2,731 -58 9,519	0 0 0
			millions of cubic	metres		
Marketable natural gas Remaining reserves at 31 st of December, 2003 Positive revisions Negative revisions Extensions Gross additions Total marketable natural gas	1,594,001 0 0 0 173,244 1,767,245	23,324 0 0 0 0 23,324	0 0 0 0 0	0 0 0 0 0	12,456 0 0 0 0 12,456	105 0 0 0 0 105
Net change in underground storage 2004 net production 3,4 Remaining reserves at 31 st of December, 2004 Non-associated Associated Dissolved Underground storage Net change in reserves during 2004	0 174,203 1,593,042 1,359,701 233,341 0 0 -959	0 4,046 19,278 19,278 0 0 0 -4,046	0 0 0 0 0 0	0 0 0 0 0 0	0 584 11,872 10,732 1,140 0 0 -584	0 0 105 105 0 0 0

Table 6 – continued

Conventional crude oil and equivalent and marketable natural gas remaining established reserves in Canada, 2004

	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia
<u>-</u>		thousand	ds of cubic metres	3	
Conventional crude oil Remaining reserves at the 31 st of December, 2003 Positive revisions Negative revisions	1,877 0 0	4,640 0 0	184,739 0 0	278,583 0 0	23,568 0 0
Extensions Gross additions Total crude oil	223 2,100	0 -142 4,498	27,821 212,560	0 32,814 311,397	0 872 24,440
2004 net production ³ Remaining reserves at the 31 st of December, 2004 Net change in reserves during 2004	153 1,947 70	637 3,861 -779	24,658 187,902 3,163	34,765 276,632 -1,951	2,278 22,162 -1,406
Pentanes plus Remaining reserves at 31 st of December, 2003 Positive revisions Negative revisions Extensions Gross additions Total pentanes plus	0 0 0 0 0	0 0 0 0 0	295 0 0 0 45 340	56,865 0 0 0 5,435 62,300	5,874 0 0 0 1,514 7,388
2004 net production ³ Remaining reserves at 31 st of December, 2004 Net change in reserves during 2004 Total remaining conventional crude oil and equivalent reserves	0 0 0 1,947	0 0 0 3,861	78 262 -33 188,164	8,764 53,536 -3,329 330,168	911 6,477 603 28,639
<u>-</u>	,-	•	s of cubic metres	,	.,
Marketable natural gas Remaining reserves at 31 st of December, 2003 Positive revisions Negative revisions Extensions Gross additions Total marketable natural gas	11,586 0 0 0 230 11,816	0 0 0 0 0	87,877 0 0 0 4,138 92,015	1,198,748 0 0 0 112,495 1,311,243	259,905 0 0 0 56,381 316,286
Net change in underground storage 2004 net production ³ · ⁴ Remaining reserves at 31 st of December, 2004 Non-associated Associated Dissolved Underground storage Net change in reserves during 2004	0 360 11,456 11,456 0 0 0	0 0 0 0 0 0	0 7,008 85,007 82,963 2,044 0 0 -2,870	0 135,351 1,175,892 957,324 218,568 0 0 -22,856	0 26,854 289,432 277,843 11,589 0 0 29,527

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

Source(s): Canadian Association of Petroleum Producers. (Excludes oil sands reserves, see text table 2).

^{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.

Preliminary estimate.

^{4.} Before re-processing plant operations.

Table 7-1 Supply and disposition of crude oil and equivalent by source, Canada — 2003

	Offshore Newfoundland	Offshore Nova Scotia	Ontario	Manitoba	Saskat- ¹ chewan	Alberta
			thousands of cubic	c metres		
Supply						
Domestic production:						
Crude oil	40.550.0	0.0	405.0	000.0	5 004 0	04.040.0
Light and medium	19,550.0	0.0 0.0	195.2 0.0	633.0	5,084.9	24,019.3
Heavy	0.0 0.0		0.0	0.0 0.0	19,246.5	12,508.6 25,028.8
Synthetic crude oil Crude bitumen	0.0	0.0 0.0	0.0	0.0	0.0 0.0	25,026.6 25,029.0
Less returned to formation	0.0	0.0	0.0	0.0	0.0	25,029.0
Total	19,550.0	0.0	1 95.2	633.0	24,331.4	86,585.7
Condensate	0.0	549.3	0.0	0.0	0.0	486.8
Pentanes plus	0.0	0.0	0.0	0.0	29.0	8.238.9
Net withdrawals	19,550.0	549.3	195.2	633.0	24,360.4	95,311.4
Imports	40.550.0	540.0	405.0		04.000.4	05 044 4
Total supply	19,550.0	549.3	195.2	633.0	24,360.4	95,311.4
Disposition						
Deliveries to refineries:	3.781.4	0.0	0.0	0.0	0.0	0.0
Atlantic provinces Quebec	3,761. 4 2.784.6	0.0	0.0	0.0	0.0	0.0
Ontario	3.217.4	0.0	195.2	28.0	1.982.4	9.386.6
Manitoba	0.0	0.0	0.0	0.0	0.0	9,300.0
Saskatchewan	0.0	0.0	0.0	0.0	2.753.5	1.693.6
Alberta	0.0	0.0	0.0	0.0	736.2	20.707.5
British Columbia	0.0	0.0	0.0	0.0	0.0	1.959.4
Northwest Territories	0.0	0.0	0.0	0.0	0.0	0.0
Total	9,783.4	0.0	195.2	28.0	5,472.1	33,747.1
Export to United States						
Petroleum administration						
East Coast	7,045.8	103.3	0.0	6.9	1,835.4	1,701.0
Midwest	205.8	0.0	0.0	687.5	17,008.2	34,614.0
Gulf Coast	2,514.5	98.1	0.0	0.0	0.0	218.1
Rocky Mountains	0.0	0.0	0.0	0.0	416.2	18,650.4
West Coast	0.0	0.0	0.0	0.0	0.0	3,883.7
Total United States	9,766.1	201.4	0.0	694.4	19,259.8	59,067.2
Other countries	87.9	0.0	0.0	0.0	0.0	298.8
Total exports	9,854.0	201.4	0.0	694.4	19,259.8	59,366.0
Net inventory changes	-87.4	347.9	0.0	0.4	152.6	644.3
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	-89.8	-524.1	1,554.0
Total disposition	19,550.0	549.3	195.2	633.0	24,360.4	95,311.4

Table 7-1 – continued Supply and disposition of crude oil and equivalent by source, Canada — 2003 $\,$

	British	Northwest	Total Canadian	Total	Total
	Columbia	Territories	sources	foreign sources	all sources
		thousar	nds of cubic metres		
Supply					_
Domestic production: Crude oil					
Light and medium	2,168.2	1,284.3	52,934.9	0.0	52,934.9
Heavy	0.0	0.0	31,755.1	0.0	31,755.1
Synthetic crude oil	0.0	0.0	25,028.8	0.0	25,028.8
Crude bitumen	0.0	0.0	25,029.0	0.0	25,029.0
Less returned to formation Total	0.0 2,168.2	0.0 1,284.3	0.0 134.747.8	0.0 0.0	0.0 134.747.8
	•	•	, -		
Condensate	144.7	0.0	1,180.8	0.0	1,180.8
Pentanes plus	526.7	90.0	8,884.6	0.0	8,884.6
Net withdrawals Imports	2,839.6	1,374.3	144,813.2	0.0 52,652.6	144,813.2 52,652.6
Total supply	2,839.6	1,374.3	144,813.2	52,652.6 52,652.6	197,465.8
	2,000.0	1,014.0	144,010.2	02,002.0	137,400.0
Disposition					
Deliveries to refineries:	0.0	0.0	3,781.4	20,878.3	24,659.7
Atlantic provinces Quebec	0.0	0.0	3,761. 4 2,784.6	20,676.3	23,973.6
Ontario	0.0	1,343.7	16,153.3	10,585.3	26,738.6
Manitoba	0.0	0.0	0.0	0.0	0.0
Saskatchewan	0.0	0.0	4,447.1	0.0	4,447.1
Alberta	1,331.7	0.0	22,775.4	0.0	22,775.4
British Columbia	1,341.3	0.0	3,300.7	0.0	3,300.7
Northwest Territories	0.0	0.0	0.0	0.0	0.0
Total	2,673.0	1,343.7	53,242.5	52,652.6	105,895.1
Export to United States					
Petroleum administration					
East Coast	0.0	0.0	10,692.4	0.0	10,692.4
Midwest	71.1	0.0	52,586.6	0.0	52,586.6
Gulf Coast	0.0 0.0	0.0	2,830.7 19.066.6	0.0 0.0	2,830.7 19.066.6
Rocky Mountains West Coast	0.0 65.7	0.0 0.0	3,949.4	0.0	3,949.4
Total United States	136.8	0.0	89,125.7	0.0	89,125.7
Other countries	0.0	0.0	386.7	0.0	386.7
Total exports	136.8	0.0	89,512.4	0.0	89,512.4
Net inventory changes	-36.0	0.0	1,022.6	0.0	1.022.6
Deliveries to other purchasers	0.0	0.0	0.0	0.0	0.0
Losses and adjustments	65.8	29.8	1,035.7	0.0	1,035.7
Total disposition	2,839.6	1,374.3	144,813.2	52,652.6	197,465.8

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 — 2004

	Offshore Newfoundland	Offshore Nova Scotia	Ontario	Manitoba	Saskat- ¹ chewan	Alberta	
	thousands of cubic metres						
Supply							
Domestic production:							
Crude oil	40.040.0				= 0=0 0		
Light and medium	18,249.2	0.0	155.1	637.4	5,058.3	22,606.0	
Heavy	0.0	0.0	0.0	0.0	19,516.9	12,282.5	
Synthetic crude oil	0.0	0.0	0.0	0.0	0.0	26,927.3	
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	
Total	18,249.2	0.0	155.1	637.4	24,575.2	92,670.5	
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	24,603.4	101,272.4	
Imports			.223				
Total supply	18,249.2	463.2	155.1	637.4	24,603.4	101,272.4	
Disposition							
Deliveries to refineries:							
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	
Total	8,585.0	0.0	155.1	252.7	5,548.7	37,851.6	
Export to United States							
Petroleum administration							
East Coast	7.266.9	103.4	0.0	0.0	1.979.8	1.528.4	
Midwest	0.0	0.0	0.0	389.0	17.134.5	37.727.9	
Gulf Coast	1.385.0	0.0	0.0	0.0	0.0	0.0	
Rocky Mountains	0.0	0.0	0.0	0.0	533.7	19.263.3	
West Coast	0.0	0.0	0.0	0.0	0.0	5,730.7	
Total United States	8,651.9	103.4	0.0	389.0	19,648.0	64,250.3	
Other countries	1.021.6	44.4	0.0	0.0	0.0	0.0	
Total exports	9.673.5	147.8	0.0	389.0	19.648.0	64.250.3	
Net inventory changes	-9.3	315.4	0.0	117.3	-197.0	-690.3	
Deliveries to other purchasers	-9.3 0.0	0.0	0.0	0.0	0.0	0.0	
Losses and adjustments	0.0	0.0	0.0	-121.6	-396.3	-139.2	
Total disposition	18,249.2	463.2	155.1	637.4	24,603.4	101,272.4	
างเลเ นเจมงริเมิงท	10,249.2	403.2	100.1	037.4	24,003.4	101,272.4	

Table 7-2 – 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
_		thousar	nds of cubic metres		
Supply Domestic production:					
Crude oil					
Light and medium	2.019.0	1.235.4	49,960.4	0.0	49,960.4
Heavy	0.0	0.0	31,799.4	0.0	31,799.4
Synthetic crude oil	0.0	0.0	26.927.3	0.0	26.927.3
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
Total	2,019.0	1,235.4	139,541.8	0.0	139,541.8
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	149,416.1	0.0	149,416.1
Imports				54,274.4	54,274.4
Total supply	2,708.7	1,326.7	149,416.1	54,274.4	203,690.5
Disposition					
Deliveries to refineries:					
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 Manitoba	0.0 0.0	1,279.5 0.0	17,013.6 0.0	11,115.6 0.0	28,129.2 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	1,183.4	0.0	3,161.7	0.0	3,161.7
Northwest Territories	0.0	0.0	0.0	0.0	0.0
Total	2,467.1	1,279.5	56,139.7	54,274.4	110,414.1
Export to United States					
Petroleum administration					
East Coast	0.0	0.0	10,878.5	0.0	10,878.5
Midwest	0.0	0.0	55,251.4	0.0	55,251.4
Gulf Coast	0.0	0.0	1,385.0	0.0	1,385.0
Rocky Mountains	0.0	0.0	19,797.0	0.0	19,797.0
West Coast	119.0	0.0	5,849.7	0.0	5,849.7
Total United States	119.0	0.0	93,161.6	0.0	93,161.6
Other countries	0.0	0.0	1,066.0	0.0	1,066.0
Total exports	119.0	0.0	94,227.6	0.0	94,227.6
Net inventory changes	-1.9	-1.3	-467.1	0.0	-467.1
Deliveries to other purchasers	0.0	0.0	0.0	0.0	0.0
Losses and adjustments	124.5	48.5	-484.1	0.0	-484.1
Total disposition	2,708.7	1,326.7	149,416.1	54,274.4	203,690.5

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 — 2003

	Newfoundland and Labrador	Nova Scotia	Ontario	Saskat- chewan	Alberta	British Columbia
		millions of c	ubic metres at 10	1.325 kPa and 1	5°C.	
Field and processing plants	•					
Supply						
Gross new production	3,913.6	4,665.8	295.7	9,030.5	166,671.8	29,627.4
Less field flared and waste	352.0	3.6	0.0	489.3	1,171.5	144.0
Net new production Reproduced	3,561.6 0.0	4,662.2 0.0	295.7 0.0	8,541.2 0.0	165,500.3 0.0	29,483.4 0.0
Less injected and stored	3.280.6	0.0	0.0	0.0	9.100.4	0.0
Net withdrawals	281.0	4,662.2	295.7	8,541.2	156,399.9	29,483.4
Disposition						
Field disposition and uses	281.0	0.0	0.0	1,013.5	3,970.0	945.8
Gathering system disposition and uses	0.0	10.3	0.0	412.5	4,302.1	0.0
Processing plant disposition and uses Processing and re-processing shrinkage	0.0	404.4	0.0	76.8	15,394.6	2.095.3
Other disposition and uses	0.0	0.0	0.0	90.9	6,115.2	954.4
Other uses	0.0	0.0	0.0	0.0	0.0	0.0
Adjustment	0.0	-222.0	0.0	-42.6	-1,588.3	-56.3
Deliveries of marketable gas to transport and						
distribution systems	0.0	4,469.5	295.7	6,990.1	128,206.3	25,544.2
Total disposition	281.0	4,662.2	295.7	8,541.2	156,399.9	29,483.4
Gas utilities						
Supply	0.0	4 400 5		0.000.4	400 000 0	05.544.0
Total marketable gas	0.0	4,469.5	295.7	6,990.1	128,206.3	25,544.2
Receipts from distributor storage Imports	0.0 0.0	0.0 0.0	0.0 0.0	863.6 0.0	28,181.5 0.0	1,181.2 0.0
Other receipts 1	0.0	0.0	0.0	0.0	0.0	0.0
Total supply of marketable gas	0.0	4,469.5	295.7	7,853.7	156,387.8	26,725.4
Disposition						
Utility sales (excluding direct sales)						
British Columbia	0.0	0.0	0.0	0.0	287.1	2,281.6
Alberta Saskatchewan	0.0 0.0	0.0 0.0	0.0 0.0	0.0	19,206.9	4,837.5
Manitoba	0.0	0.0	0.0	1,725.5 0.0	0.0 1.372.9	0.0 0.0
Ontario	0.0	0.0	295.7	2,408.4	11,679.9	1,530.7
Quebec	0.0	0.0	0.0	0.0	4.103.8	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	295.7	4,133.9	36,650.6	8,649.8
Exports	0.0	3,814.1	0.0	7.9	85,979.1	11,671.3
Direct sales 2, 3	0.0	631.0	0.0	2,454.9	15,634.1	3,517.2
Delivered to distributor storage	0.0 0.0	0.0 10.7	0.0 0.0	662.1 0.1	13,157.8 -267.9	2,163.5 22.2
Line pack fluctuation Pipeline fuel	0.0	6.1	0.0	70.5	-207.9 4.121.1	450.4
Pipeline losses and unaccounted volumes	0.0	7.6	0.0	524.3	1.113.0	251.0
Total disposition of marketable gas	0.0	4,469.5	295.7	7,853.7	156,387.8	26,725.4

Table 8-1 - continued Supply and disposition of natural gas, by source, Canada — 2003

	Yukon	Northwest Territories	Total Canadian	Total foreign	Total all sources
			sources	sources	
		millions of cubic me	etres at 101.325 kPa	and 15°C.	
Field and processing plants					
Supply	055.0	000.0	045 450 0	0.0	045 450 0
Gross new production Less field flared and waste	255.2 1.2	990.2 5.8	215,450.2 2,167.4	0.0 0.0	215,450.2 2,167.4
Net new production	254.0	984.4	213,282.8	0.0	213,282.8
Reproduced	0.0	0.0	0.0	0.0	0.0
Less injected and stored	0.0	0.0	12,381.0	0.0	12,381.0
Net withdrawals	254.0	984.4	200,901.8	0.0	200,901.8
Disposition					
Field disposition and uses	0.0	0.0	6,210.3	0.0	6,210.3
Gathering system disposition and uses	0.0	0.0	4,724.9	0.0	4,724.9
Processing plant disposition and uses	40.0	440 =	40.455.0		40.455.0
Processing and re-processing shrinkage	43.3	143.5	18,157.9	0.0	18,157.9
Other disposition and uses Other uses	10.8 0.0	89.4 0.0	7,260.7 0.0	0.0 0.0	7,260.7
Adjustment	0.0	0.0	-1,909.2	0.0	0.0 -1,909.2
Deliveries of marketable gas to transport and distribution	0.0	0.0	-1,909.2	0.0	-1,909.2
systems	199.9	751.5	166,457.2	0.0	166,457.2
Total disposition	254.0	984.4	200,901.8	0.0	200,901.8
Gas utilities					
Supply					
Total marketable gas	199.9	751.5	166,457.2	0.0	166,457.2
Receipts from distributor storage	0.0 0.0	0.0 0.0	30,226.3	0.0 9.680.4	30,226.3 9.680.4
Imports Other receipts 1	0.0	0.0	0.0 0.0	9,660.4	9,660.4
Total supply of marketable gas	199.9	751.5	196,683.5	9,680.4	206,363.9
Disposition					
Utility sales (excluding direct sales)					
British Columbia	199.9	677.4	3,446.0	0.0	3,446.0
Alberta	0.0	0.0	24,044.4	0.0	24,044.4
Saskatchewan	0.0 0.0	0.0 0.0	1,725.5	0.0	1,725.5
Manitoba	0.0	0.0	1,372.9	0.0	1,372.9
Ontario Quebec	0.0	0.0	15,914.7 4.103.8	0.0 0.0	15,914.7 4.103.8
New Brunswick	0.0	0.0	0.0	0.0	4,103.0
Northwest Territories	0.0	74.1	74.1	0.0	74.1
Total utility sales	199.9	751.5	50,681.4	0.0	50.681.4
Exports	0.0	0.0	101,472.4	0.0	101,472.4
Direct sales 2, 3	0.0	0.0	22,237.2	0.0	22,237.2
Delivered to distributor storage	0.0	0.0	15,983.4	9,680.4	25,663.8
Line pack fluctuation	0.0	0.0	-234.9	0.0	-234.9
Pipeline fuel	0.0	0.0	4,648.1	0.0	4,648.1
Pipeline losses and unaccounted volumes	0.0	0.0 754.5	1,895.9	0.0	1,895.9
Total disposition of marketable gas	199.9	751.5	196,683.5	9,680.4	206,363.9

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

^{2.} Direct deliveries for industrial consumption and miscellaneous utility deliveries.

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 — 2004

	Newfoundland and Labrador	Nova Scotia	Ontario	Saskat- chewan	Alberta	British Columbia
		millions of c	ubic metres at 10	1.325 kPa and 1	5°C.	
Field and processing plants						
Supply						
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
Net withdrawals	262.1	4,324.3	273.0	8,891.1	155,664.1	31,201.3
Disposition						
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	0.0	318.4	0.0	81.3	15,528.6	1.894.7
Processing and re-processing shrinkage Other disposition and uses	0.0	3.1	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	-184.2	0.0	-192.3	-401.0	781.5
Deliveries of marketable gas to transport and	0.0	101.2	0.0	102.0	101.0	701.0
distribution systems	0.0	4.174.0	273.0	7.397.2	128.804.6	26.000.0
Total disposition	262.1	4,324.3	273.0	8,891.1	155,664.1	31,201.3
Gas utilities						
Supply						
Total marketable gas	0.0	4,174.0	273.0	7,397.2	128,804.6	26,000.0
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 1	0.0	0.0	0.0	0.0	0.0	0.0
Total supply of marketable gas	0.0	4,174.0	273.0	7,981.5	151,815.6	27,341.6
Disposition						
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 0.0	0.0	19,157.0	4,824.2
Saskatchewan Manitoba	0.0 0.0	0.0	0.0	1,640.9 0.0	0.0 1.344.2	0.0 0.0
Ontario	0.0	0.0	273.0	2,552.3	1,344.2	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
Total utility sales	0.0	0.0	273.0	4.193.2	35.549.0	8.880.3
Exports	0.0	3,495.5	0.0	29.4	89,845.1	10,648.5
Direct sales 2, 3	0.0	668.6	0.0	2,621.9	15,572.1	3,566.5
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	-335.5	0.1
Pipeline fuel	0.0	15.2	0.0	65.2	3,783.1	479.6
Pipeline losses and unaccounted volumes	0.0	-11.8	0.0	345.9	1,417.8	1,831.9
Total disposition of marketable gas	0.0	4,174.0	273.0	7,981.5	151,815.6	27,341.6

Table 8-2 - continued Supply and disposition of natural gas, by source, Canada — 2004

	Yukon	Northwest Territories	Total Canadian	Total foreign	Total all sources
			sources	sources	
		millions of cubic me	etres at 101.325 kPa	and 15°C.	
Field and processing plants					
Supply	400.0	700.4	040 000 4		240,000,4
Gross new production Less field flared and waste	186.6 1.1	738.1 7.1	218,000.4 1,996.5		218,000.4 1,996.5
Net new production	185.5	731.0	216,003.9		216,003.9
Reproduced	0.0	0.0	0.0		0.0
Less injected and stored	0.0	0.0	14,471.5		14,471.5
Net withdrawals	185.5	731.0	201,532.4		201,532.4
Disposition					
Field disposition and uses	0.0	0.0	6,492.2		6,492.2
Gathering system disposition and uses	0.0	0.0	3,668.4		3,668.4
Processing plant disposition and uses	20.4	05.4	47.050.5		47.050.5
Processing and re-processing shrinkage Other disposition and uses	38.1 3.6	95.4 68.4	17,956.5 6.051.5		17,956.5 6.051.5
Other uses	0.0	0.0	0.0		0,031.3
Adjustment	0.0	0.0	4.0		4.0
Deliveries of marketable gas to transport and distribution	0.0	0.0	4.0		4.0
systems	143.8	567.2	167,359.8		167,359.8
Total disposition	185.5	731.0	201,532.4		201,532.4
Gas utilities					
Supply	440.0		407.050.0		407.050.0
Total marketable gas	143.8	567.2	167,359.8		167,359.8
Receipts from distributor storage	0.0 0.0	0.0 0.0	24,936.9	0.0 10.860.6	24,936.9
Imports Other receipts 1	0.0	0.0	0.0 0.0	0.0	10,860.6 0.0
Total supply of marketable gas	143.8	567.2	192,296.7	10,860.6	203,157.3
Disposition					
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 Quebec	0.0 0.0	0.0 0.0	15,134.0 4.089.7	0.0 0.0	15,134.0 4.089.7
New Brunswick	0.0	0.0	4,069.7	0.0	4,069.7
Northwest Territories	0.0	77.0	77.0	0.0	77.0
Total utility sales	143.8	567.2	49.606.5	0.0	49.606.5
Exports	0.0	0.0	104,018.5	0.0	104,018.5
Direct sales 2, 3	0.0	0.0	22,429.1	0.0	22,429.1
Delivered to distributor storage	0.0	0.0	8,645.6	10,860.6	19,506.2
Line pack fluctuation	0.0	0.0	-329.9	0.0	-329.9
Pipeline fuel	0.0	0.0	4,343.1	0.0	4,343.1
Pipeline losses and unaccounted volumes	0.0	0.0	3,583.8	0.0	3,583.8
Total disposition of marketable gas	143.8	567.2	192,296.7	10,860.6	203,157.3

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

^{2.} Direct deliveries for industrial consumption and miscellaneous utility deliveries.

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				
	Residential	Commercial	Industrial Total		sales	sales
			millions of cubic	metres		
2004						
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
Canada	17,185.6	12,764.5	19,580.4	49,530.5	22,540.0	72,070.5
2003						
Nova Scotia	0.0	0.0	0.0	0.0	55.1	55.1
New Brunswick	0.0	0.0	0.0	0.0	575.8	575.8
Quebec	737.5	1,953.6	1,412.8	4,103.9	1,496.4	5,600.3
Ontario	9,133.0	5,901.5	934.9	15,969.4	11,939.0	27,908.4
Manitoba	577.2	701.8	93.8	1,372.8	782.2	2,155.0
Saskatchewan	985.6	726.8	13.0	1,725.4	3,982.9	5,708.3
Alberta	4,289.6	2,907.0	16,847.5	24,044.1	0.0	24,044.1
British Columbia	1,987.4	1,279.2	192.0	3,458.6	3,428.0	6,886.6
Canada	17,710.3	13,469.9	19,494.0	50,674.2	22,259.4	72,933.6

^{1.} Represents sales of natural gas by natural gas utilities.

Table 10

Reconciliation table – Saskatchewan value of crude oil production, 2004

	Value
	thousands of dollars
Marketable production of Saskatchewan conventional crude oil – Table 5 ¹ Add: Value of sales of upgraded crude oil ²	5,572,434 1,058,000
Total value of marketable production of Saskatchewan crude oil ³	6,630,434

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

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

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 Dvision.

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 reprocessingplant 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 statigraphic 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 statigraphic 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 no 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.