



## DOMINION BUREAU OF STATISTICS

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## GAS PIPE LINE TRANSPORT

December, 1960

The Gas Pipe Line Transport Industry is defined as that industry which is engaged in the transportation of natural gas, by pipe line, from natural gas fields or processing plants to local distribution systems. Companies included in this industry obtain the bulk of their revenue from the sale of gas to distribution companies for resale. Those companies that derive most of their revenue from the sale of gas to final consumers are classified as being in the Gas Distribution Industry.

During 1960 Canadian transmission lines increased their net deliveries of natural gas by 32.8 per cent to a total of 291,161,190 MCF from 219,279,021. Deliveries to distribution systems increased 31.3 per cent and deliveries to foreign transmission lines 35.2 per cent. Much of the increase in deliveries to foreign transmission lines took place in the month of October, November and December when Trans-Canada Pipe Lines Limited commenced delivery to the mid-western United States.

Deliveries averaged 795,522 MCF per day in 1960 compared with 600,764 in 1959. Trans-Canada Pipe Lines Limited accounted for 44.0 per cent of the deliveries and Westcoast Transmission Company Limited 37.3 per cent.

Receipts of natural gas were mainly from domestic sources, only 1.8 per cent being imported. Imports were down to 5,476,580 MCF from the previous year's total of 11,634,172 while gas received from gathering systems increased to 295,859,139 MCF from 210,967,454.

Gas used for pipeline fuel almost doubled, rising to 4,420,672 MCF from 2,315,829 MCF.

Operating revenues increased 41.9 per cent to \$98,083,659 from \$69,124,365.

In December, 1960 net deliveries of natural gas through Canadian pipe lines totalled 37,774,046 MCF, up 53.7 per cent from the total of 24,571,921 in December, 1959. Daily average sendout was 1,218,518 MCF compared with 792,643.

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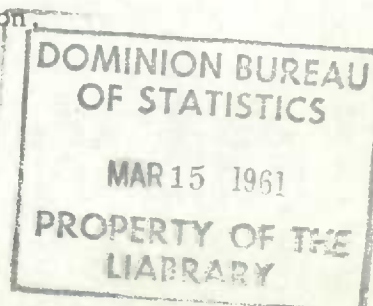


TABLE 1

## NATURAL GAS TRANSMISSION BY COMPANY

December, 1960

MCP\*

|  | Total<br>December, 1959 | Total<br>December, 1960 | Alberta<br>Gas<br>Trunk<br>Line<br>Co. Ltd. | Canadian-<br>Montana<br>Pipe<br>Line<br>Co. | Grande<br>Prairie<br>Transmission<br>Co. Ltd. |
|--|-------------------------|-------------------------|---|---|---|
| <u>Natural gas received into system</u>    |                         |                         |   |   |   |
| From own gathering systems                 | 8,214,130               | 9,833,331               | -   | -   | 84,574  |
| From other gathering systems               | 16,175,458              | 26,519,986              | 18,561,073                                  | 1,624,745                                   | -   |
| From foreign transmission lines            | -                       | -                       | -   | -   | -   |
| Total net receipts <sup>(1)</sup>          | 24,389,588              | 36,353,317              | xxx   | xxx   | xxx   |
| From Canadian transmission lines           | 12,111,918              | 18,772,115              | -   | -   | -   |
| From storage                               | 1,191,495               | 4,172,788               | -   | -   | -   |
| From distribution systems                  | 6,628                   | 132,156                 | -   | -   | -   |
| Total gross receipts                       | 37,699,629              | 59,430,376              | 18,561,073                                  | 1,624,745                                   | 84,574  |
| <u>Natural gas delivered out of system</u> |                         |                         |   |   |   |
| To distribution systems                    | 16,424,686              | 23,603,887              | 132,305                                     | -   | 84,574  |
| To foreign transmission lines              | 8,141,364               | 14,141,872              | -   | 1,622,831                                   | -   |
| To industrial consumers                    | 5,692                   | 28,144                  | 28,144                                      | -   | -   |
| To others                                  | 179                     | 143                     | -   | 143   | -   |
| Total net deliveries (1)                   | 24,571,921              | 37,774,046              | xxx   | xxx   | xxx   |
| To Canadian transmission lines             | 12,111,918              | 18,772,115              | 18,387,813                                  | -   | -   |
| To storage                                 | -                       | -                       | -   | -   | -   |
| Redelivered to distribution systems        | 410,397                 | 1,949,593               | -   | -   | -   |
| Total gross deliveries                     | 37,094,236              | 58,495,754              | 18,548,262                                  | 1,622,974                                   | 84,574  |
| Pipeline fuel                              | 331,054                 | 549,546                 | 2,073                                       | -   | -   |
| Pipeline losses and metering differences   | 88,828                  | 324,671                 | -68,269                                     | 1,675                                       | -   |
| Line pack fluctuations                     | 185,511                 | 60,405                  | 79,007                                      | 96  | -   |
| Total disposition of receipts              | 37,699,629              | 59,430,376              | 18,561,073                                  | 1,624,745                                   | 84,574  |

\* Thousand cubic feet at 14.73 pounds per square inch absolute, 60° F. and 1,000 B.T.U.

(1) Not applicable to individual companies.

## NATURAL GAS TRANSMISSION BY COMPANY

December, 1960

MCF\*

| Mid-Continent Pipelines Ltd. | Mid-Western Industrial Pipelines Ltd. | Mid-Western Industrial Pipelines (Redwater) Ltd. | Mid-Western Industrial Pipelines (Wabamun) Ltd. | Niagara Gas Transmission Co. Ltd. | Ontario Natural Gas Storage and Pipe-lines Ltd. | Peace River Transmission Co. Ltd. | South Alberta Pipe Lines Ltd. | Trans-Canada Pipe Lines Ltd. | West-coast Transmission Co. Ltd. |
|------------------------------|---------------------------------------|--|---|-----------------------------------|---|-----------------------------------|-------------------------------|------------------------------|----------------------------------|
| -                            | 395,351                               | -  | 1,431,190                                       | -                                 | -   | 59,021                            | 309,892                       | -                            | 7,553,303                        |
| 913,084                      | -                                     | 70,671   | -   | -                                 | 2,612,360                                       | 95,145                            | -                             | -                            | 2,642,908                        |
| -                            | -                                     | -  | -   | -                                 | -   | -                                 | -                             | -                            | -                                |
| xxx                          | xxx                                   | xxx  | xxx   | xxx                               | xxx   | xxx                               | xxx                           | xxx                          | xxx                              |
| -                            | -                                     | -  | -   | -                                 | 82,828  | -                                 | -                             | 18,689,287                   | -                                |
| -                            | -                                     | -  | -   | -                                 | 4,172,788                                       | -                                 | -                             | -                            | -                                |
| -                            | -                                     | -  | -   | 132,156                           | -   | -                                 | -                             | -                            | -                                |
| 913,084                      | 395,351                               | 70,671   | 1,431,190                                       | 132,156                           | 6,867,976                                       | 154,166                           | 309,892                       | 18,689,287                   | 10,196,211                       |
| 913,092                      | 397,520                               | 70,319   | 1,451,335                                       | -                                 | 4,714,906                                       | 151,235                           | 308,437                       | 12,115,642                   | 3,264,522                        |
| -                            | -                                     | -  | -   | -                                 | -   | -                                 | -                             | 5,834,364                    | 6,684,677                        |
| -                            | -                                     | -  | -   | -                                 | -   | -                                 | -                             | -                            | -                                |
| -                            | -                                     | -  | -   | -                                 | -   | -                                 | -                             | -                            | -                                |
| xxx                          | xxx                                   | xxx  | xxx   | xxx                               | xxx   | xxx                               | xxx                           | xxx                          | xxx                              |
| -                            | -                                     | -  | -   | -                                 | 301,474   | -                                 | -                             | 82,828                       | -                                |
| -                            | -                                     | -  | -   | -                                 | -   | -                                 | -                             | -                            | -                                |
| -                            | -                                     | -  | -   | 132,156                           | 1,817,437                                       | -                                 | -                             | -                            | -                                |
| 913,092                      | 397,520                               | 70,319   | 1,451,335                                       | 132,156                           | 6,833,817                                       | 151,235                           | 308,437                       | 18,032,834                   | 9,949,199                        |
| -                            | -                                     | -  | -   | -                                 | 10,679  | -                                 | -                             | 332,372                      | 204,422                          |
| -                            | -                                     | 352  | -20,145   | -                                 | 23,480  | 2,931                             | 1,477                         | (2)<br>399,351               | -16,181                          |
| -8                           | -2,169                                | -  | -   | -                                 | -   | -                                 | -22                           | -75,270                      | 58,771                           |
| 913,084                      | 395,351                               | 70,671   | 1,431,190                                       | 132,156                           | 6,867,976                                       | 154,166                           | 309,892                       | 18,689,287                   | 10,196,211                       |

(2) Includes 230,446 MCF used in construction and 4,938 MCF used in drips and blowdowns.

TABLE 2

## OPERATING STATISTICS BY COMPANY

December, 1960

|  | Canada        | Alberta<br>Gas<br>Trunk<br>Line<br>Co. Ltd. | Canadian-<br>Montana<br>Pipe<br>Line<br>Co. | Grande<br>Prairie<br>Trans-<br>mission<br>Co. Ltd. |
|--|---------------|---|---|--|
| <u>MCF* Sendout - daily average</u>      |               |   |   |  |
| December, 1960                           | 1,218,518     | 598,331                                     | 52,354                                      | 2,728  |
| Year to date, 1960                       | 795,522       | 362,165                                     | 44,018                                      | 1,729  |
| December, 1959                           | 792,643       | 346,374                                     | 52,250                                      | 2,398  |
| Year to date, 1959                       | 600,764       | 212,326                                     | 39,670                                      | 1,690  |
| <u>MCF* Sendout on peak day of month</u> |               |   |   |  |
| December, 1960                           | xxx           | 637,375                                     | 56,625                                      | 4,062  |
| December, 1959                           | xxx           | 388,262                                     | 60,259                                      | 2,928  |
| <u>Gross receipts - MCF*</u>             |               |   |   |  |
| December, 1960                           | 59,430,376    | 18,561,073                                  | 1,624,745                                   | 84,574   |
| Year to date, 1960                       | 469,161,217   | 132,366,285                                 | 16,208,039                                  | 632,660  |
| December, 1959                           | 37,699,629    | 10,796,151                                  | 1,641,298                                   | 74,336   |
| Year to date, 1959                       | 318,098,301   | 77,965,570                                  | 14,705,881                                  | 616,955  |
| <u>Gross deliveries - MCF*</u>           |               |   |   |  |
| December, 1960                           | 58,495,754    | 18,548,262                                  | 1,622,974                                   | 84,574   |
| Year to date, 1960                       | 463,173,194   | 132,552,303                                 | 16,110,651                                  | 632,660  |
| December, 1959                           | 37,094,236    | 10,737,592                                  | 1,619,739                                   | 74,336   |
| Year to date, 1959                       | 313,799,561   | 77,498,700                                  | 14,479,668                                  | 616,955  |
| <u>Operating revenues</u>                |               |   |   |  |
| 1st quarter, 1960                        | \$ 25,996,622 | 1,352,975                                   | 758,129                                     | 94,569   |
| 2nd quarter, 1960                        | \$ 21,643,294 | 1,061,209                                   | 581,753                                     | 59,160   |
| 3rd quarter, 1960                        | \$ 20,431,152 | 1,737,253                                   | 442,014                                     | 50,322   |
| 4th quarter, 1960                        | \$ 30,012,591 | 1,785,869                                   | 726,913                                     | 82,036   |
| Total to date                            | \$ 98,083,659 | 5,937,306                                   | 2,508,809                                   | 286,087  |
| 1st quarter, 1959                        | \$ 19,009,743 | 793,383                                     | 687,394                                     | 94,589   |
| 2nd quarter, 1959                        | \$ 15,424,955 | 646,978                                     | 541,331                                     | 54,429   |
| 3rd quarter, 1959                        | \$ 13,600,064 | 598,925                                     | 314,783                                     | 46,325   |
| 4th quarter, 1959                        | \$ 21,089,603 | 1,233,433                                   | 568,203                                     | 80,807   |
| Total to date                            | \$ 69,124,365 | 3,272,719                                   | 2,111,711                                   | 276,150  |

\* Thousand cubic feet at 14.73 pounds per square inch absolute, 60° F. and 1,000 B.T.U.

## OPERATING STATISTICS BY COMPANY

December, 1960

| Mid-Continent Pipelines Ltd. | Mid-Western Industrial Pipelines Ltd. | Mid-Western Industrial Pipelines (Redwater) Ltd. | Mid-Western Industrial Pipelines (Wabauam) Ltd. | Niagara Gas Transmission Ltd. | Ontario Natural Gas Storage and Pipe-lines Ltd. | Peace River Transmission Co. Ltd. | South Alberta Pipe Lines Ltd. | Trans-Canada Pipe Lines Ltd. | West-coast Trans-mission Co. Ltd. |
|------------------------------|---------------------------------------|--|---|-------------------------------|---|-----------------------------------|-------------------------------|------------------------------|-----------------------------------|
| 29,455<br>19,244             | 12,823<br>11,196                      | 2,268<br>2,650                                   | 46,817<br>39,496                                | 4,263<br>3,162                | 220,446<br>84,871                               | 4,879<br>3,306                    | 9,950<br>9,782                | 581,704<br>350,283           | 320,942<br>296,721                |
| 16,976<br>8,606              | 8,696<br>7,106                        | 3,613<br>2,785                                   | 29,080<br>31,494                                | 214<br>214                    | 102,558<br>70,479                               | 4,176<br>3,270                    | 11,216<br>10,109              | 330,816<br>197,911           | 288,221<br>236,430                |
| 37,224                       | 14,296                                | 2,572  | 52,297  | 4,784                         | 363,136   | 6,836                             | 10,450                        | 639,073                      | 352,966                           |
| 17,551                       | 10,468                                | 4,312  | 35,344  | -                             | 188,628   | 5,171                             | 11,377                        | 359,212                      | 313,438                           |
| 913,084<br>3,714,163         | 395,351<br>4,035,573                  | 70,671<br>938,239                                | 1,431,190<br>14,456,640                         | 132,156<br>1,157,434          | 6,867,976<br>48,039,921                         | 154,166<br>1,223,659              | 309,892<br>3,537,285          | 18,689,287<br>132,089,635    | 10,196,211<br>110,761,684         |
| 526,257<br>3,141,153         | 273,050<br>2,567,791                  | 110,568<br>1,006,282                             | 909,577<br>11,562,597                           | 6,628<br>6,628                | 3,228,748<br>36,878,895                         | 129,456<br>1,193,523              | 341,937<br>3,637,053          | 10,690,796<br>77,465,461     | 8,970,827<br>87,350,512           |
| 913,092<br>3,714,153         | 397,520<br>4,097,759                  | 70,319<br>945,951                                | 1,451,335<br>14,455,553                         | 132,156<br>1,157,434          | 6,833,817<br>47,913,271                         | 151,235<br>1,210,049              | 308,437<br>3,580,116          | 18,032,834<br>128,203,502    | 9,949,199<br>108,599,792          |
| 526,257<br>3,141,196         | 269,570<br>2,593,601                  | 112,000<br>1,016,662                             | 901,494<br>11,495,037                           | 6,628<br>6,628                | 3,179,300<br>36,537,164                         | 129,456<br>1,193,523              | 347,708<br>3,689,734          | 10,255,304<br>75,233,951     | 8,934,852<br>86,296,742           |
| 918                          | 19,875                                | 11,042   | 55,654  | 6,000                         | 4,538,655                                       | 83,468                            | 70,185                        | 12,137,695                   | 6,867,457                         |
| 132                          | 23,019                                | 8,253  | 46,601  | 6,000                         | 2,252,653                                       | 49,119                            | 59,540                        | 10,858,803                   | 6,637,052                         |
| -                            | 19,004                                | 6,173  | 48,470  | 6,000                         | 1,644,348                                       | 47,736                            | 59,269                        | 9,975,649                    | 6,394,914                         |
| 813                          | (8,518)                               | 24,103   | 36,779  | 6,000                         | 3,680,802                                       | 80,927                            | 64,514                        | 16,184,359                   | 7,347,994                         |
| 1,863                        | 53,380                                | 49,571   | 187,504   | 24,000                        | 12,116,458                                      | 261,250                           | 253,508                       | 49,156,506                   | 27,247,417                        |
| 349                          | 13,906                                | 12,282   | 57,571  | -                             | 3,647,890                                       | 93,400                            | 64,793                        | 7,376,707                    | 6,167,479                         |
| 180                          | 15,657                                | 9,295  | 48,108  | -                             | 2,209,187                                       | 54,351                            | 53,539                        | 6,351,180                    | 5,440,720                         |
| 296                          | 12,688                                | 11,026   | 44,827  | -                             | 1,600,890                                       | 45,751                            | 53,355                        | 5,985,343                    | 4,885,855                         |
| 756                          | 21,802                                | 10,482   | 60,734  | n.a.                          | 3,195,623                                       | 75,441                            | 66,239                        | 9,875,698                    | 5,900,385                         |
| 1,581                        | 64,053                                | 43,085   | 211,240   | n.a.                          | 10,653,590                                      | 268,943                           | 237,926                       | 29,588,928                   | 22,394,439                        |

TABLE 3

## NATURAL GAS TRANSMISSION BY MONTH

December, 1960

MCF\*

|   | Year to date |             | January    | February   | March      |
|---|--------------|-------------|------------|------------|------------|
|   | 1960         | 1959        |            |            |            |
| <u>Natural gas received into system</u>         |              |             |            |            |            |
| From own gathering system                       | 101,355,513  | 79,533,174  | 8,630,074  | 8,136,012  | 8,963,748  |
| From other gathering systems                    | 194,503,626  | 131,434,280 | 17,796,715 | 16,401,484 | 17,565,867 |
| From foreign transmission lines                 | 5,476,580    | 11,634,172  | -          | -          | -          |
| Total net receipts                              | 301,335,719  | 222,601,626 | 26,426,789 | 24,537,496 | 26,529,615 |
| From Canadian transmission lines                | 148,887,225  | 80,518,000  | 12,811,569 | 11,762,731 | 12,291,925 |
| From storage                                    | 12,646,150   | 10,186,728  | 2,067,570  | 2,190,235  | 2,350,610  |
| From distribution systems                       | 6,292,123    | 4,791,947   | 9,565      | 27,787     | 115,097    |
| Total gross receipts                            | 469,161,217  | 318,098,301 | 41,315,493 | 38,518,249 | 41,287,247 |
| <u>Natural gas delivered out of system</u>      |              |             |            |            |            |
| To distribution systems                         | 178,573,842  | 136,001,965 | 18,648,586 | 17,264,267 | 18,711,126 |
| To foreign transmission lines                   | 112,480,760  | 83,175,601  | 8,473,024  | 8,201,864  | 8,544,915  |
| To industrial consumers                         | 105,378      | 99,971      | -          | 13,528     | 11,275     |
| To others                                       | 1,210        | 1,484       | 165        | 146        | 205        |
| Total net deliveries                            | 291,161,190  | 219,279,021 | 27,121,775 | 25,479,805 | 27,267,522 |
| To Canadian transmission lines                  | 148,887,225  | 80,518,000  | 12,811,569 | 11,762,731 | 12,291,925 |
| To storage                                      | 16,850,422   | 10,812,260  | -          | -          | -          |
| Redelivered to distribution systems             | 6,274,357    | 3,190,280   | 811,509    | 1,008,672  | 1,105,127  |
| Total gross deliveries                          | 463,173,194  | 313,799,561 | 40,744,853 | 38,251,208 | 40,664,574 |
| <u>Pipeline fuel</u>                            |              |             |            |            |            |
| Pipeline fuel                                   | 4,420,672    | 2,315,829   | 377,140    | 357,486    | 371,108    |
| <u>Pipeline losses and metering differences</u> |              |             |            |            |            |
| Pipeline losses and metering differences        | 1,582,032    | 1,554,705   | 176,294    | 60,969     | 132,024    |
| <u>Line pack fluctuations</u>                   |              |             |            |            |            |
| Line pack fluctuations                          | -14,681      | 428,206     | 17,206     | -151,414   | 119,541    |
| Total disposition of receipts                   | 469,161,217  | 318,098,301 | 41,315,493 | 38,518,249 | 41,287,247 |

\* Thousand cubic feet at 14.73 pounds per square inch absolute, 60 F. and 1,000 B.T.U.

## NATURAL GAS TRANSMISSION BY MONTH

December, 1960

MCF\*

| April      | May        | June       | July       | August     | September  | October    | November   | December   |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8,492,900  | 8,557,755  | 7,832,072  | 7,551,472  | 8,073,525  | 8,100,732  | 8,498,883  | 8,685,009  | 9,833,331  |
| 14,582,286 | 13,657,983 | 12,631,389 | 12,186,867 | 11,609,828 | 13,056,712 | 17,316,389 | 21,178,120 | 26,519,986 |
| 735,185    | 824,945    | 806,865    | 838,843    | 824,972    | 808,117    | 637,653    | -          | -          |
| 23,810,371 | 23,040,683 | 21,270,326 | 20,577,182 | 20,508,325 | 21,965,561 | 26,452,925 | 29,863,129 | 36,353,317 |
| 11,075,347 | 11,054,915 | 10,364,817 | 9,980,914  | 8,628,085  | 11,331,976 | 14,644,062 | 16,168,769 | 18,772,115 |
| 133,505    | -          | 460        | -          | -          | -          | 72,146     | 1,658,836  | 4,172,788  |
| 671,769    | 1,374,136  | 1,459,246  | 1,627,407  | 527,201    | 112,278    | 121,982    | 113,499    | 132,156    |
| 35,690,992 | 35,469,734 | 33,094,849 | 32,185,503 | 29,663,611 | 33,409,815 | 41,291,115 | 47,804,233 | 59,430,376 |
| 14,062,486 | 12,398,198 | 10,486,626 | 9,767,581  | 9,976,836  | 10,687,343 | 14,059,423 | 18,907,483 | 23,603,887 |
| 8,717,725  | 8,652,816  | 8,460,935  | 8,324,211  | 8,538,333  | 8,130,321  | 10,226,680 | 12,068,064 | 14,141,872 |
| 165        | 617        | 352        | 570        | 22,481     | 8,503      | 2,434      | 17,309     | 28,144     |
| 116        | 77         | 44         | 28         | 41         | 47         | 55         | 142        | 143        |
| 22,750,492 | 21,051,708 | 18,947,957 | 18,092,390 | 18,537,691 | 18,826,214 | 24,288,592 | 30,992,998 | 37,774,046 |
| 11,075,347 | 11,054,915 | 10,364,817 | 9,980,914  | 8,628,085  | 11,331,976 | 14,644,062 | 16,168,769 | 18,772,115 |
| 1,325,749  | 2,783,535  | 3,424,649  | 3,736,929  | 1,902,659  | 2,203,095  | 1,457,669  | 16,137     | -          |
| 196,342    | 107,577    | 91,457     | 113,069    | 102,429    | 112,278    | 271,455    | 404,849    | 1,949,593  |
| 35,377,930 | 34,997,735 | 32,828,880 | 31,923,302 | 29,170,864 | 32,473,563 | 40,661,778 | 47,582,753 | 58,495,754 |
| 313,968    | 314,218    | 297,322    | 341,725    | 295,278    | 307,910    | 411,700    | 483,271    | 549,546    |
| 145,767    | 139,989    | 86,582     | 144,303    | 123,466    | 146,715    | 43,452     | 57,800     | 324,671    |
| -146,673   | 17,792     | -117,935   | -223,827   | 74,003     | 481,627    | 174,185    | -319,591   | 60,405     |
| 35,690,992 | 35,469,734 | 33,094,849 | 32,185,503 | 29,663,611 | 33,409,815 | 41,291,115 | 47,804,233 | 59,430,376 |

# NET DELIVERIES OF NATURAL GAS BY TRANSMISSION LINES 1959 — 1960

