

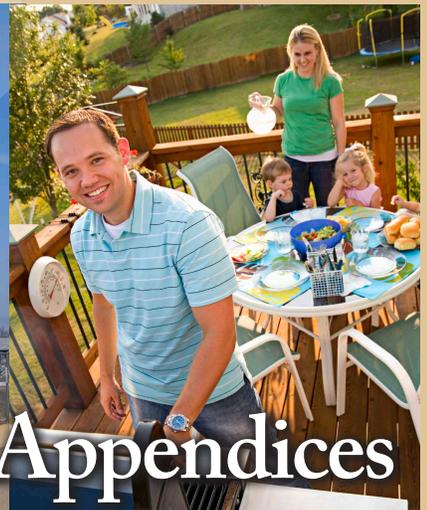


National Energy
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Short-term Canadian Natural Gas Deliverability

2011-2013



Appendices

AN ENERGY MARKET ASSESSMENT MAY 2011

Canada



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2011 - 2013

gas

Appendices

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Canada

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APPENDIX A

A1 Methodology (Detailed Description)

Canadian natural gas deliverability over the projection period will consist of conventional gas supply from the WCSB with contributions from Atlantic Canada, Ontario, Northwest Territories, CBM production from Alberta, and shale gas production in BC. In this report, trends in well production characteristics and resource development expectations are analyzed to determine parameters that define future natural gas deliverability from the WCSB. A different approach is used for other regions of Canada where production is sourced from a small number of wells.

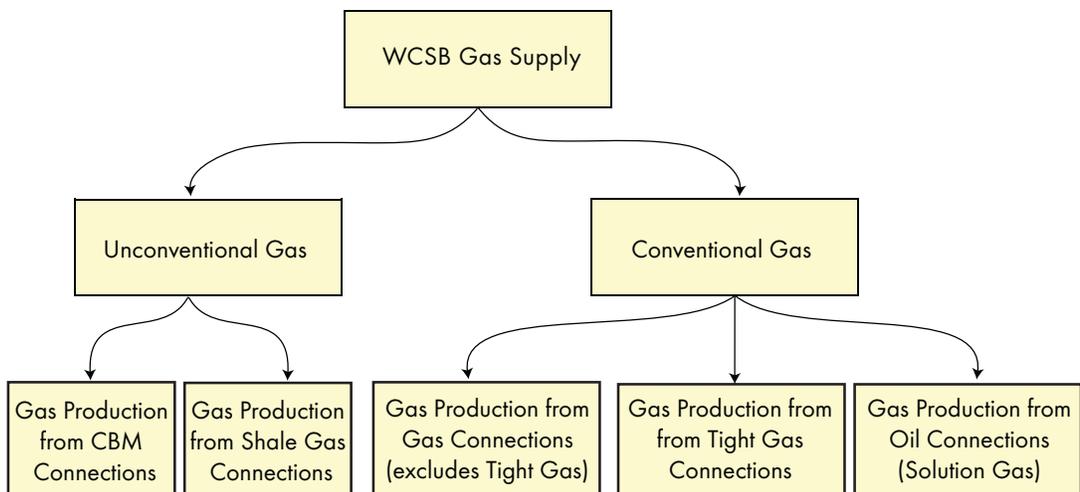
A1.1 WCSB Gas Supply

To assess gas deliverability for the WCSB, gas production was split into two major categories as shown in Figure A1.1.

The methodology to determine gas deliverability associated with conventional gas connections (including tight gas), CBM connections, and shale gas is described below. Tight gas is again reported as conventional gas in this report, due to the lack of clear and widely recognized criteria that would enable the segregation of tight gas connections. The methodology to determine gas deliverability associated with oil connections (solution gas) is described in section 1.2 of this appendix.

FIGURE A1.1

WCSB Major Gas Supply Categories for Deliverability Assessment



A1.1.1 Gas Connections from Gas Wells

The methodology used to assess deliverability is substantially the same for conventional gas connections (including tight gas) and CBM connections. Production decline analysis on historical production data was used to determine parameters that define future performance. In the case of CBM, Horn River shale gas, and Montney tight gas, historical data is more limited so the views gathered in consultations with industry played a larger role in establishing the performance parameters.

A1.1.1.1 Groupings for Production Decline Analysis

Different groupings of conventional gas connections (including tight gas), shale gas, and CBM connections were made to assess well performance characteristics. Conventional gas connections were grouped geographically on the basis of the Petrocube areas in Alberta, B.C., and Saskatchewan, as shown in Figure A1.2. Conventional gas connections in each area were also grouped by zone. In this analysis, gas deliverability from the Montney formation includes all tight gas produced from the Triassic period. This is due to the rapid increase and overall proportion of deliverability that has taken place over the past half decade that has seen the Montney (and Doig) formations dominating deliverability out of the Triassic. While some of the other formations within the Triassic period (Baldonnel, Charlie Lake, Boundary and Halfway) do not have the same geological characteristics as the Montney (and Doig) formations their recent overall deliverability has decreased significantly.

FIGURE A1.2

WCSB Area Map



Within each Petrocube area and zone, gas connections were also grouped by connection year, with all connections made prior to 1998 forming a single grouping, and separate groupings for each year from 1998 through 2009.

CBM connections were grouped primarily by zone into three categories:

- Horseshoe Canyon main play
- Mannville CBM, and
- Other CBM

For the projection period all CBM development is expected to occur in Alberta.

Within each of the three categories of CBM resources, connections were also grouped by connection year. Due to the short period of commercial production, there are fewer connection year groupings. For the Horseshoe Canyon Main Play and Other CBM categories, there is a single grouping for all connections made prior to 2003, and separate groupings for each year from 2003 through 2009. For Mannville CBM, a single grouping was made for all connections made prior to 2005, and separate groupings for each following year.

Existing Connections vs. Future Connections

In this report, “existing connections” are connections brought on production prior to January 1, 2010, and “future connections” are connections brought on production after January 1, 2010. The methodology applied to make the gas deliverability projections for existing connections is substantially different from what is done to assess deliverability for future connections.

A1.1.1.2 Methodology for Existing Connections

For **existing connections**, production decline analysis on historical production data was done on each grouping (gas type/study area/zone/connection year) to develop two sets of parameters.

1. Group deliverability parameters-- describing deliverability expectations for the entire gas resource grouping.
2. Average connection deliverability parameters-- describing deliverability expectations for the average gas connection in the grouping (note—these only apply when the grouping represents a specific connection year).

The methodology for this production decline analysis is described below. The group deliverability parameters and average connection deliverability parameters resulting from this analysis are contained in Appendices A.3 and A.4 respectively. In the deliverability model, the group deliverability parameters are used to make the deliverability projection for existing connections.

Production Decline Analysis Methodology

The production decline analysis procedure described here applies to conventional gas connections (including tight gas) and CBM in the WCSB.

Conventional gas connections are grouped by study area, zone and connection year. CBM connections in Alberta are grouped by producing zone and connection year. For each of these groupings, a data set of group marketable production history is created and, where the grouping

represents a specific connection year, a data set of average connection marketable production history is also generated.

The data sets for group marketable production are generated as follows.

- Raw well production for gas connections in each grouping is summed by calendar month getting total group raw production by calendar month.
- The total group raw production by calendar month is multiplied by an average shrinkage factor that applies to the grouping and divided by the number of days in each month to get total monthly marketable gas production and marketable gas production rate (MMcf/d) for each calendar month.
- Using this data set, plots of total daily marketable production rate versus total cumulative marketable production are generated for each grouping.

The data sets for average connection production history are created as follows.

- The raw well production by month for each connection in the grouping is put in a data base.
- For each entry of production month for each connection, a value of normalized production month is calculated as the number of months between the month the connection began producing and the actual production month (this is the normalized production month).
- The raw production for connections in the grouping is summed by normalized production month and then multiplied by the average shrinkage factor that applies to the grouping, providing total marketable production by normalized production month.
- The total marketable production by normalized production month is then divided by the total number of connections in the grouping to get marketable production for the average connection by normalized production month.
- The marketable production for normalized production month is then divided by 30.4375, giving the production rate for the average connection in the grouping by normalized production month (Note: due to the different number of production months for connections in the grouping coming on stream at different times of the year, some production data could not be used in the calculation of the average connection production rate).
- Using this data set, plots of daily marketable production rate versus cumulative marketable production for the average connection were generated for each grouping.

For conventional gas connections, the following procedures are applied in performing production decline analysis using the group and average connection historical production data sets:

- **Production Decline Analysis for the Pre-1998 Connections**

In each study area the group rate versus cumulative production plot for the grouping of gas connections on production prior to 1998 is the first to be evaluated. In all study areas, a stable exponential decline for the past several years was exhibited. The group plot for the all connections prior to 1998 yields a current marketable production rate, a stable decline rate applicable to future production, and a terminal decline that may be applicable to later connection year groupings for the study area.

- **Evaluate Connection Year 1998 through 2009**

After the initial aggregate connection year is evaluated for a study area, each connection year is evaluated in sequence, from 1998 through 2009.

- a. **Production Decline Analysis for the Average Connection:**

For each connection year, the rate versus cumulative production plot for the average connection is evaluated first to establish the following parameters that describe the production profile of the average connection over the entire productive life:

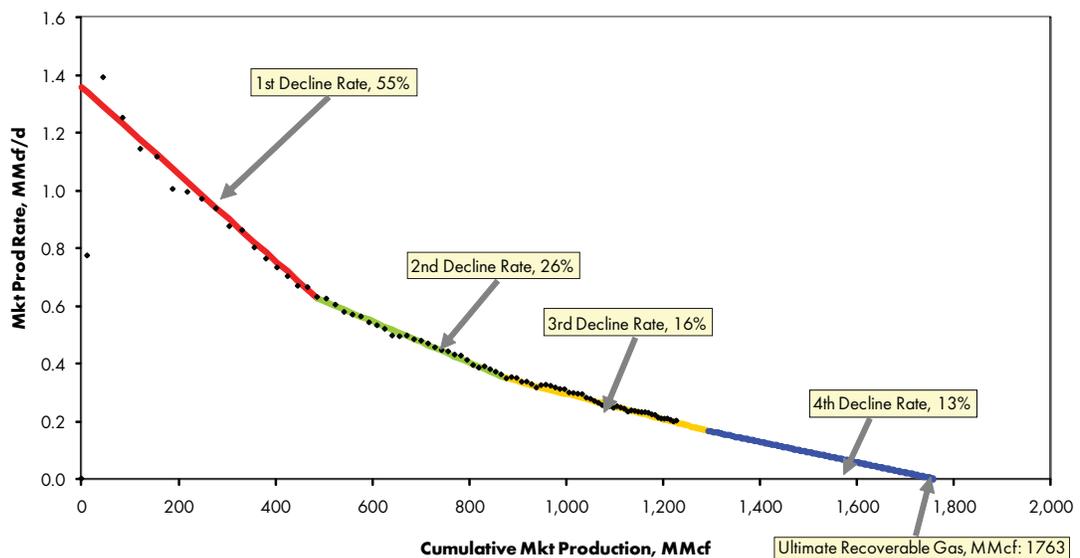
- Initial Production Rate
- First Decline Rate
- Second Decline Rate
- Months to Second Decline Rate- usually around 18 months
- Third Decline Rate
- Months to Third Decline Rate- usually around 45 months
- Fourth Decline Rate
- Months to Fourth Decline Rate- usually around 100 months.

Figure A1.3 shows an example of the plots used in evaluation of average connection performance, and the different decline rates that are applied to describe the production.

For the earlier connection years, the available data is usually sufficient to establish all of the above parameters. For more recent connection years, the duration of historical production data becomes smaller and the parameters describing the later life decline performance must be taken from that determined for earlier connection years. In the example shown in Figure A1.2, the available data is sufficient to determine parameters

FIGURE A 1. 3

Example of Average Connection Production Decline Analysis Plot



Source: NEB analysis of Divestco Geovista well production data

defining the first, second, and third decline periods for the connection, but the parameters defining the fourth decline period must be assumed based on the analysis of earlier connection years.

It is assumed that, unless the historical data for the connection year indicates otherwise, the fourth decline rate will equal the terminal decline rate for the grouping established through evaluation of all pre-1998 connections, and that period of the terminal decline rate will commence after 120 months of production.

The decline parameters determined in this manner for average connections are available in Appendix A4.

b. Production Decline Analysis for the Group Data:

Once the performance parameters for the average connection are established, the procedure focuses on evaluation of group performance parameters.

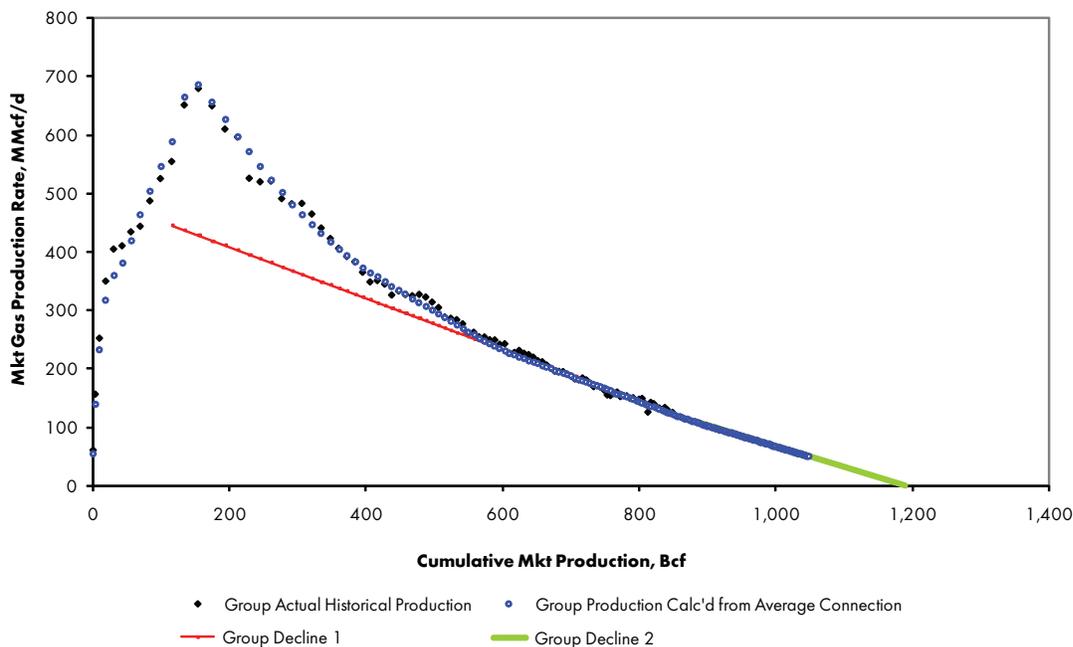
As a first step, the average connection performance parameters are combined with the known connection schedule to calculate the expected group performance. This is plotted with the actual group performance data. If the data calculated from average connection performance data does not provide a good match with the actual historical production data for the group, then the average connection parameters may be revised until a good match is obtained between calculated group production data (from average connection data) and actual group production data. An example of the group plots described here is shown in Figure A1.4.

The following group performance parameters are determined from the group plot:

- Production Rate as of December 2009
- First Decline Rate

FIGURE A1.4

Example of Group Production Decline Analysis Plot



Source: NEB analysis of Divestco Geovista well production data

-
- Second Decline Rate (if applicable)
 - Months to Second Decline Rate (if applicable)
 - Third Decline Rate (if applicable)
 - Months to Third Decline Rate (if applicable)
 - Fourth Decline Rate (if applicable)
 - Months to Fourth Decline Rate (if applicable)

In the earlier connection year groupings (2000, 2001, etc.) the actual group data is usually stabilized by the current date at or near the terminal decline rate established via the pre-1998 aggregate grouping. In these cases a single decline rate sufficiently describes the entire remaining productive life of the grouping. In these cases the expected performance calculated from average connection data has little influence over determination of the group parameters.

In later connection years (2008, 2009, etc.) actual group production history data cannot provide a good basis upon which to project future deliverability. In these cases the expected performance calculated from average connection data is vital to establishing the current and future decline rates applicable for the connection year.

Group performance parameters determined in this manner are available in Appendix A3.

Production Decline Analysis of CBM

The production decline analysis procedure described above is also applied to the CBM groupings, subject to the following:

1. The short production history of CBM in Alberta makes it difficult to establish long term decline rates based on historical data, especially with regard to Mannville CBM. Nevertheless, decline rates that describe the full productive life of CBM connections are still estimated in this EMA, based on industry consultations, and on the NEB's view of ultimate gas recovery for the average connections for the different CBM groupings.
2. Mannville CBM connections are very new in the WCSB with commercial development only commencing in 2005. Mannville CBM connections have a different performance profile than the other gas resources in the WCSB. While gas connections for all other groupings can be described by an initial production rate that declines in a relatively predictable manner, Mannville CBM connections go through a dewatering phase with gas production increasing over a period of months to a peak rate. After the peak rate is reached decline will occur. Thus a slightly different set of parameters is used to describe performance of the average connection for Mannville CBM, with initial production rate being replaced by "Months to Peak Production" and "Peak Production Rate".

A1.1.1.3 Methodology for Future Connections

For **future connections**, deliverability is projected based on the number of future connections and the expected average performance characteristics of those connections. The drilling projection is used to estimate the number of future gas connections. Historical trends in average connection performance parameters, obtained from production decline analysis of existing gas connections, are used to estimate average connection performance parameters for future connection years.

A1.1.1.3.1 Performance of Future Connections

The performance of future connections is obtained in each resource grouping by extrapolating the production performance trends for average connections in past connection years. The performance parameters estimated are initial productivity of the average connection and the associated decline rates.

In almost all groupings, each new connection year follows a trend of decreasing initial productivity for the average conventional gas connection. This trend is evident in Figure A1.5, which shows the initial production rate over time for conventional gas connections in the Southern Alberta Mannville conventional grouping. The Initial Production Rate for future gas connections is estimated by extrapolating the trend in each resource grouping. Historical and projected initial productivity values for the average connection for all gas resource groupings are contained in Appendices A3 and A4.

The key decline parameters impacting short-term deliverability are the first decline rate, second decline rate, and months to second decline rate. Figure A1.6 shows the historical and projected values of these key decline parameters for the average connections during the years 2001 through 2013 for conventional gas connections in the Southwest Alberta, Tertiary, Upper Cretaceous, Upper Colorado grouping. As shown in Figure A1.6, trends seen in the key decline parameters in past connection years are used to establish these parameters for future years.

A1.1.1.3.2 Number of Future Connections

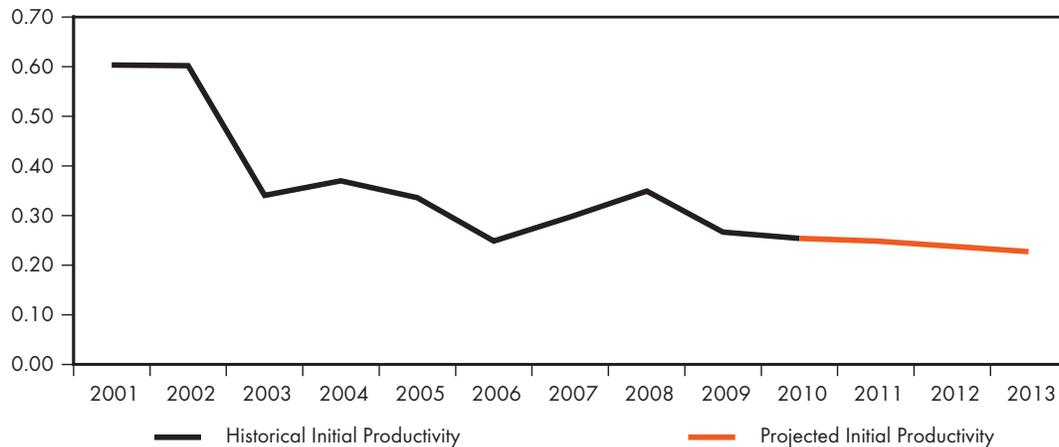
The number of future connections is forecast by first making a projection of the annual number of gas-intent (including tight gas), shale-intent, and CBM-intent wells for each resource grouping and then multiplying by the ratio of annual connections to annual wells.

The methodology for projecting the number of gas-intent and CBM-intent wells for each year over the projection period is shown in Figure A1.7. The key inputs are **Annual Drilling Investment** and **Costs per Drill Day**. These two key inputs (shown as yellow boxes in Figure A1.7) are adjusted to produce different of drilling activity cases in the WCSB. Other inputs required by the procedure are shown as green boxes in Figure A1.7. The values projected for these other inputs are estimated from an analysis of historical data.

FIGURE A1.5

Example of Initial Productivity of Average Connections by Connection Year

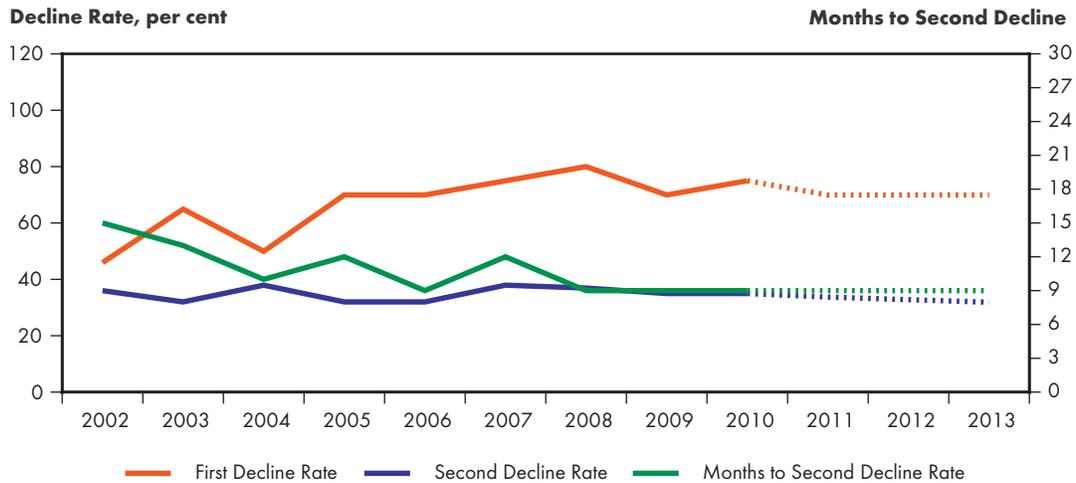
Average Well Initial Productivity, Marketable Gas -MMcf/d



Source: NEB analysis of Divestco well production data

FIGURE A1.6

Example of Key Decline Parameters for Average Connections over time



The drilling projection provides the number of gas-intent drill days that target each resource grouping. The gas-intent drill days are allocated to the resource groupings based on allocation fractions determined by the Board. The allocation fractions are projected from historical trends and the Board’s view of development potential for the resource groupings. The allocation fractions reflect the historical trends of an increasing focus on gas drilling in the deeper western side of the basin, increasing interest in tight gas and gas shales in B.C, and further development of lower-cost gas. Tables of the historical data (drill days and allocation fractions) and the projected allocation fractions are available in Appendix B1.

After the gas-intent drill days were allocated to the resource groupings, a check was made against drilling capacity to ensure that physical drilling limitations were not exceeded. The number of gas-intent wells drilled in each year is calculated by dividing the drill days targeting each resource grouping by the applicable average number of drill days per well.

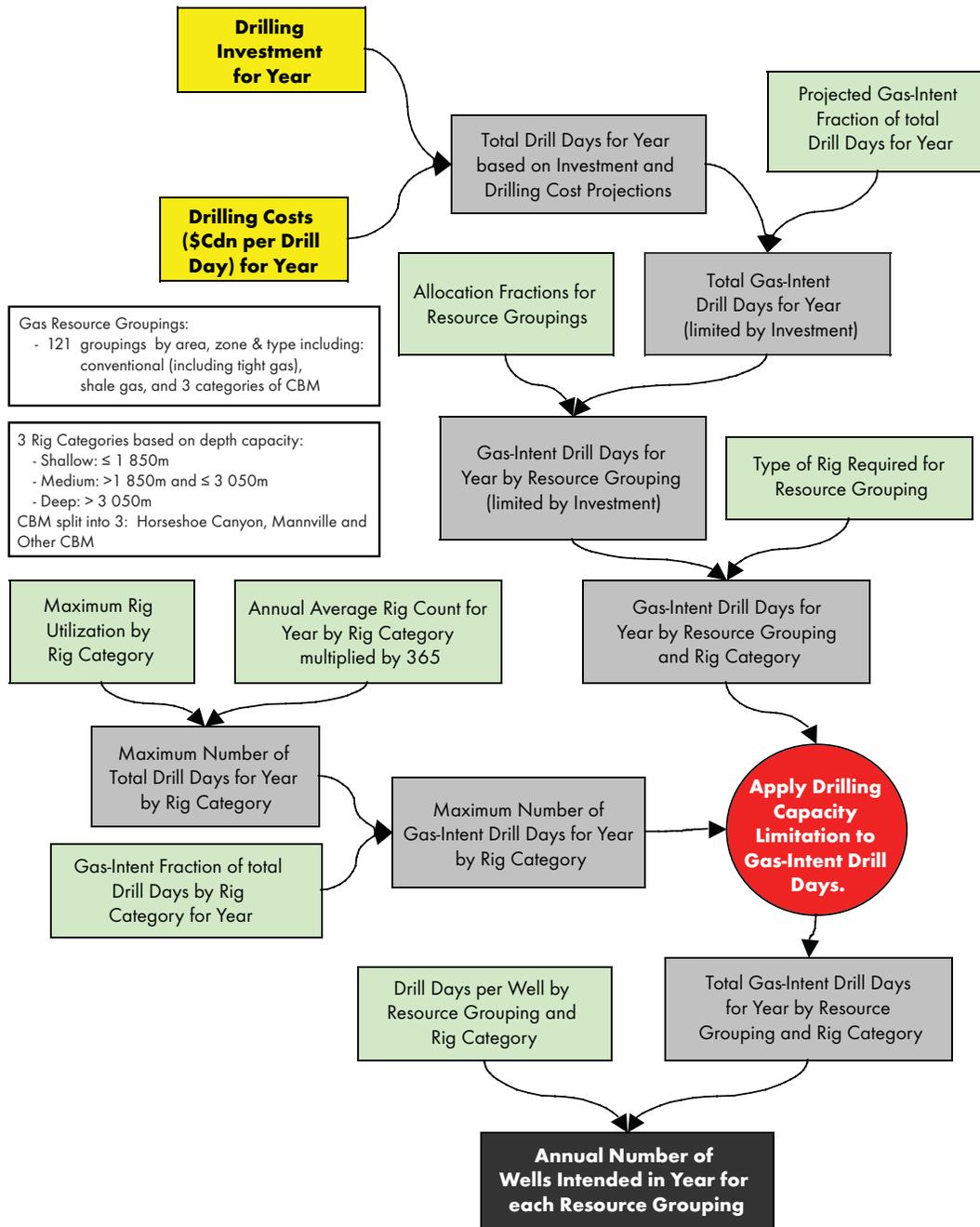
For each resource grouping, a connection ratio (the ratio of annual connections to annual wells drilled targeting a grouping) is estimated based on historical data. The annual number of wells drilled is multiplied by the connection ratio to obtain the number of annual connections for each resource grouping. The connection ratios for each resource grouping are provided in Appendix B.2. The annual number of connections for each resource grouping is allocated to each month of the year in accordance with the established historical connection schedule.

A1.1.2 Solution Gas

Solution gas is gas produced from oil wells in conjunction with the crude oil and accounts for about eight per cent of total marketable gas production in the WCSB. To estimate deliverability of solution gas, oil connections are grouped by study area and production decline analysis is performed on the entire grouping to obtain the current production rate and the decline rate. The deliverability resulting from these parameters is deemed to represent all solution gas deliverability (i.e. deliverability from both existing and future connections).

FIGURE A1.7

Flowchart of NEB Drilling Projection Methodology



A1.1.3 Yukon and Northwest Territories

In the Yukon and Northwest Territories, conventional gas is produced to the pipeline grid from two southerly areas close to the territorial border of 60 degrees north latitude. These two southerly areas are Kotaneelee and Cameron Hills. Much further to the north, the Ikhil and Norman Wells fields also produce a small amount of gas that serves local purposes and is not tied into the North American pipeline grid. With the limited number of producing wells and development activity in the Kotaneelee and Cameron Hills areas, production decline analysis for the existing gas connections

provides a good estimate of future deliverability. No deliverability from the Mackenzie Delta and along the Mackenzie corridor is included during the three year projection period.

In this report, gas deliverability of the southerly fields tied in to the pipeline grid is represented as total deliverability from the Yukon and Northwest.

A1.2 Atlantic Canada

For producing wells in the Nova Scotia offshore, production profiles are based on an average of the decline rates in the five producing fields. No additional infill wells are assumed for the producing fields over the projection period. Offshore compression was fully in service by May 2007. The parameters used in the compression analysis are based on discussions with industry representatives. Deliverability from the Deep Panuke development is scheduled to start in November 2011.

Onshore production from the McCully Field in New Brunswick was connected into the regional pipeline system at the end of June 2007. Future development and performance of the field is based on corporate development plans and considers the performance of existing wells, some of which have been in operation since 2003 serving local industrial demand.

Testing of onshore CBM and shale gas prospects is ongoing. Due to the early stage of development, reasonable estimates of onshore CBM and shale gas productivity cannot be developed at this time.

A1.3 Other Canadian Production

Deliverability from the WCSB and Atlantic Canada discussed in the preceding sections of this chapter accounts for 99.9 per cent of total Canadian production. This minor remaining amount of Canadian deliverability is sourced from Ontario. Deliverability from Ontario is projected by extrapolation of historical production volumes. Shale gas operations in Quebec are currently the subject of public consultations and regulatory reviews. As a result, no natural gas deliverability from the province is included in the outlook.

A1.4 Canadian Deliverability and Canadian Demand

To better understand the role of natural gas deliverability in relation to the Canadian natural gas market, it is useful to compare the Board's outlook for deliverability with current and anticipated Canadian natural gas demand.

Canadian natural gas deliverability is defined as the amount of gas available after field processing. As a result, all estimated gas use prior to the outlet from field processing plants has already been deducted from the deliverability estimate, and likewise is not included in the demand estimate. Gas consumed at the Goldboro processing facility in Nova Scotia is included in this category of field processing and has therefore already been deducted from Atlantic Canada deliverability.

Current and projected Canadian gas demand is divided geographically at the Saskatchewan-Manitoba border into Western and Eastern Canada demand. Western Canada demand includes gas volumes withdrawn during the recovery of natural gas liquids at straddle plants. Approximately 85 to 90 per cent of the gas volumes leaving Alberta are processed through the straddle plants, where much of the ethane in the gas stream is extracted along with traces of other NGLs and heavier components remaining after field processing. A table of the Average Annual Canadian Deliverability and Demand is available in Appendix E

Western and Eastern Canada gas demand includes gas required for pipeline fuel in the respective areas. The Board's projection of Western and Eastern Canada gas demand is based on historical trends and expected major increments of gas-fired power generation and industrial projects (including oil sands developments). The demand projection is based on the assumption of average weather conditions. Considerable variability in actual gas demand is possible due to the impact of weather variation on Canada's large space heating needs.

A2 Deliverability Parameters - Results

A2.1 WCSB

In the NEB methodology, connections in the WCSB are categorized as either gas or oil. Gas connections are further categorized as conventional (including the tight gas sub-category), shale gas, or CBM. Connections are grouped based on geographical area, producing zone, and connection year, with different grouping criteria applied to different types of connections.

In the case of existing gas connections (those on production prior to January 1, 2010), and all oil connections (solution gas), production decline analysis is used to establish parameters that define future deliverability of each grouping. Section A2.1.1 below provides further discussion of the parameters resulting from the production decline analysis.

For future gas connections (those on production after January 1, 2010), the number of expected future connections and the expected production performance of those future connections is estimated to provide a basis for the deliverability projection. Section A2.1.2 below provides discussion of the parameters used to project deliverability for future gas connections.

A2.1.1 Production from Existing Gas Connections

The future deliverability of existing connections of the resource groupings comprising conventional (including tight gas), shale gas, CBM, and all solution gas was determined via the production decline analysis procedure described in Appendix A3. The decline parameters describing the expected future deliverability of each grouping are listed in Appendix A3.

The deliverability parameters for these groupings are not impacted by the different cases considered in this report. The different cases are included to reflect uncertainty in future gas drilling activity only.

The parameters describing future deliverability for all of these groupings are the production rate as of December 2009 and as many as four future decline rates that apply in specified time periods in the future. For the older groupings of wells where production appears to have stabilized at a final decline rate, only one future decline rate was needed to describe future group deliverability. For newer well groupings, the decline rate that applies over future months changes as the group performance progresses towards the final stable decline period. For these newer well groupings three or possibly four different decline rates have been determined to describe future performance.

The future deliverability projected for these groupings represents the deliverability that would occur from the WCSB if there were no further gas connections made after the end of 2009. Deliverability projections made in previous reports for these categories of groupings have proved to be very close to actual performance.

The Board's projections show that aggregate production for these groupings will decline by 21 per cent over 2010, by a further 16 per cent in 2011, 13 per cent in 2012, and 11 per cent in 2013. Deliverability from future gas connections supplements the declining deliverability from existing connections.

A2.1.2 Future Gas Connections

Deliverability associated with future gas connections is calculated for each resource grouping using estimates for production performance of the average connection and the number of connections in future years. The parameters associated with both of these inputs are discussed in the sections below.

While past deliverability projections for existing gas connections have enjoyed a high degree of accuracy, the certainty associated with the projections for future gas connections is lower. The key uncertainty is the level of gas drilling that will occur. Three cases have been created to address the uncertainty inherent in the gas drilling projections.

A2.1.2.1 Performance Parameters for Future Average Gas Connections

The production decline analysis procedures described in Appendix A.1 provide the basis for establishing performance parameters for future gas connections. The trends seen in average connection performance for the various groupings of existing connections are used to make an estimate of performance parameters for future gas connections.

For conventional gas connections (including tight gas), the connections are grouped on the basis of area, formation, and connection year from 1998 to 2009. These 12 connection year groupings are assessed for each grouping, providing an excellent historical data set to estimate performance of future wells.

Two trends are apparent in the performance parameters for the existing conventional gas connections.

- Decline rates applicable to the average connection are quite stable over the past several connection years.
- Initial productivity of the average connection decreases from connection year to connection year.

With respect to initial productivity of the average gas connection, the overall trend for the WCSB is shown in Figure A2.1. After decreases in initial productivity over 2000 to 2006, the trend reversed upwards for 2007 and carried on through to 2010 as higher initial productivity rates from tight gas and shale gas wells begin to represent a growing share of the wells drilled in a year. This trend carries forward to 2013.

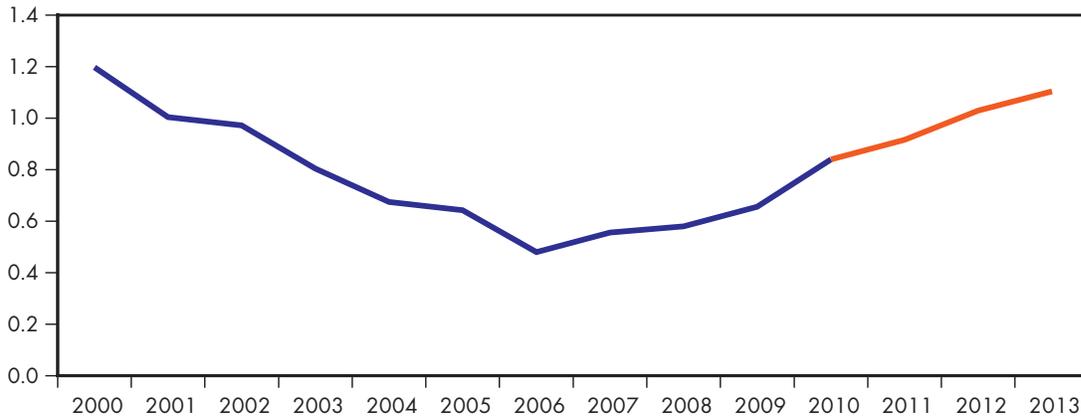
Table A2.1 shows the historical average initial production rates for the average gas connections for each area. Appendices A3 and A4 provide a complete listing

The average connection performance parameters projected for connection years 2010 through 2013 are the same in all three cases assessed in this report. Variance between the cases is affected by applying different levels of gas drilling activity as discussed further in section 1.2.2 of this appendix.

FIGURE A 2.1

WCSB Initial Productivity of Average Conventional Gas Connections by Connection Year

MMcf/d



Note: 2011-2013 is the Mid-Range Case.

Source: NEB Analysis of Divestco Well Production Data

TABLE A 2.1

WCSB Initial Productivity of Average Gas Connections by Connection Year by Area - MMcf/d

Area	2004	2005	2006	2007	2008	2009
00 - Alberta CBM	0.060	0.070	0.100	0.101	0.095	0.063
01 - Southern Alberta	0.162	0.136	0.111	0.103	0.115	0.103
02 - Southwest Alberta	0.313	0.244	0.247	0.241	0.218	0.175
03 - Southern Foothills	1.309	1.252	1.181	0.342	0.088	0.683
04 - Eastern Alberta	0.093	0.090	0.072	0.071	0.079	0.098
05 - Central Alberta	0.306	0.203	0.179	0.199	0.178	0.175
06 - West Central Alberta	0.404	0.427	0.354	0.396	0.502	0.453
07 - Central Foothills	1.526	1.955	1.184	1.601	1.659	1.506
08 - Kaybob	0.593	0.584	0.636	0.552	0.549	0.860
09 - Alberta Deep Basin	1.008	0.680	0.489	0.819	0.729	0.892
10 - Northeast Alberta	0.182	0.177	0.142	0.161	0.159	0.149
11 - Peace River	0.662	0.662	0.494	0.640	0.489	0.610
12 - Northwest Alberta	0.419	0.377	0.315	0.281	0.378	0.729
13 - BC Deep Basin	1.882	1.481	0.747	0.966	1.469	1.407
14 - Fort St. John	0.759	1.065	0.559	1.053	0.942	1.851
15 - Northeast BC	1.133	0.825	0.641	0.624	0.652	0.567
16 - BC Foothills	2.593	1.894	1.949	1.138	1.778	1.625
17 - Southwest Saskatchewan	0.057	0.067	0.062	0.055	0.054	0.062
18 - West Saskatchewan	0.150	0.137	0.117	0.125	0.089	0.155
Total WCSB	0.674	0.642	0.479	0.556	0.580	0.656

Source: NEB Analysis of Divestco Well Production Data

A2.1.2.2 Number of Future Gas Connections

The projected number of connections by year and the projected production performance of the average connections in those years are applied to provide deliverability associated with future gas connections. To determine the number of future gas connections, projections of gas-intent drilling are made for each of the resource groupings. The annual number of wells targeted to each grouping is applied to the ratio of annual connections to annual wells for that grouping to provide the annual number of connections.

Volatile and unpredictable market conditions are expected to be the primary influence on gas-intent drilling activity. As a result, there is a high degree of uncertainty in the gas drilling activity that might occur in the coming years. Three drilling activity cases (Mid-Range, High, and Low) reflect a range of market conditions that may occur over the projection period. Figure A2.2 indicates the projected number of gas-intent wells for all resource groupings in each case.

Detailed tabulations of projected annual gas-intent-wells, connection ratios, and annual connections for each resource grouping for each case are provided in Appendix B2.

A2.2 Atlantic Canada and Ontario

As indicated in Appendix A1, deliverability from Atlantic Canada and Ontario is based on extrapolation of prior trends. No additional infill wells over the 2011 to 2013 period are assumed for the producing fields at this time.

Marketable production from the Deep Panuke development is projected to start in November 2011.

Future development and performance of the McCully field in New Brunswick is based on corporate development plans.

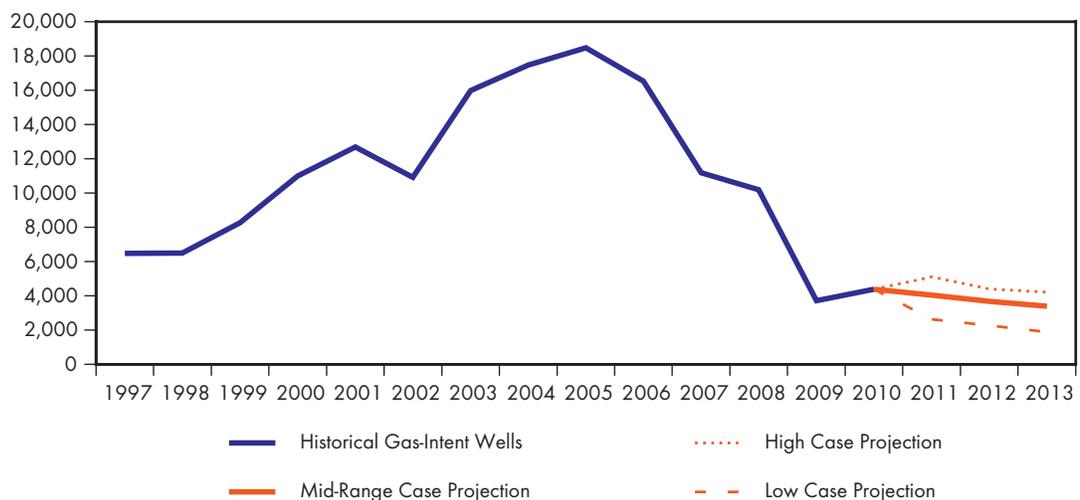
Testing of onshore CBM and shale gas prospects is ongoing in Atlantic Canada. Due to the early stage of development, reasonable estimates of onshore CBM productivity cannot be developed.

Deliverability from Ontario continues to decline.

FIGURE A2.2

WCSB Gas-Intent Drilling Cases

Annual Gas-Intent Wells



A3 Decline Parameters for Groupings of Existing Gas Connections

Table A3.1 - Formation Index

Formation	Abbreviation	Group Number
Tertiary	Tert	02
Upper Cretaceous	UprCret	03
Upper Colorado	UprCol	04
Colorado	Colr	05
Upper Mannville	UprMnvl	06
Middle Mannville	MdlMnvl	07
Lower Mannville	LwrMnvl	08
Mannville	Mnvl	06;07;08
Jurassic	Jur	09
Upper Triassic	UprTri	10
Lower Triassic	LwrTri	11
Triassic	Tri	10;11
Permian	Perm	12
Mississippian	Miss	13
Upper Devonian	UprDvn	14
Middle Devonian	MdlDvn	15
Lower Devonian	LwrDvn	16
Horseshoe Canyon	HSC	
Mannville CBM	Mannville	

Table A3.2 - Grouping Index

Area name	Area Number	Resource Type	Resource Group
CBM Area	00	CBM	Main HSC
CBM Area	00	CBM	Mannville
Southern Alberta	01	Conventional	Tert;UprCret;UprColr
Southern Alberta	01	Conventional	Colr
Southern Alberta	01	Conventional	Mnvl
Southern Alberta	01	Tight	UprColr
Southwest Alberta	02	Conventional	Tert;UprCret;UprColr
Southwest Alberta	02	Conventional	Colr
Southwest Alberta	02	Conventional	MdlMnvl;LwrMnvl
Southwest Alberta	02	Conventional	Jur;Miss
Southwest Alberta	02	Conventional	UprDvn
Southwest Alberta	02	Tight	UprColr
Southwest Alberta	02	Tight	Colr
Southwest Alberta	02	Tight	LwrMnvl
Southern Foothills	03	Conventional	Miss;UprDvn
Eastern Alberta	04	Conventional	UprCret;UprColr
Eastern Alberta	04	Conventional	Colr;Mnvl
Eastern Alberta	04	Tight	UprColr
Central Alberta	05	Conventional	Tert;UprCret
Central Alberta	05	Conventional	Colr
Central Alberta	05	Conventional	Mnvl
Central Alberta	05	Conventional	Miss;UprDvn
Central Alberta	05	Tight	Colr
Central Alberta	05	Tight	Mnvl
West Central Alberta	06	Conventional	Tert
West Central Alberta	06	Conventional	UprCret;UprColr
West Central Alberta	06	Conventional	Mnvl
West Central Alberta	06	Conventional	LwrMnvl; Jur
West Central Alberta	06	Conventional	Miss
West Central Alberta	06	Conventional	UprDvn
West Central Alberta	06	Tight	Colr
West Central Alberta	06	Tight	Mnvl
Central Foothills	07	Conventional	UprColr
Central Foothills	07	Conventional	Colr;Mnvl
Central Foothills	07	Conventional	Jur;Tri;Perm

Area name	Area Number	Resource Type	Resource Group
Central Foothills	07	Conventional	Miss
Central Foothills	07	Conventional	UprDvn;MdlDvn
Central Foothills	07	Tight	UprColr;Colr
Central Foothills	07	Tight	Mnvl
Central Foothills	07	Tight	Jur
Kaybob	08	Conventional	UprColr;Colr
Kaybob	08	Conventional	Mnvl;Jur
Kaybob	08	Conventional	Tri
Kaybob	08	Conventional	UprDvn
Kaybob	08	Tight	Colr;Mnvl
Kaybob	08	Tight	Tri
Alberta Deep Basin	09	Conventional	UprCret
Alberta Deep Basin	09	Conventional	UprColr
Alberta Deep Basin	09	Conventional	Mnvl;Jur
Alberta Deep Basin	09	Conventional	Tri
Alberta Deep Basin	09	Conventional	UprDvn
Alberta Deep Basin	09	Tight	UprColr
Alberta Deep Basin	09	Tight	Colr
Alberta Deep Basin	09	Tight	Mnvl;Jur
Alberta Deep Basin	09	Tight	Tri
Northeast Alberta	10	Conventional	Mnvl;UprDvn
Peace River	11	Conventional	UprColr
Peace River	11	Conventional	Colr;UprMnvl
Peace River	11	Conventional	MdlMnvl;LwrMnvl
Peace River	11	Conventional	UprTri
Peace River	11	Conventional	LwrTri
Peace River	11	Conventional	Miss
Peace River	11	Conventional	UprDvn;MdlDvn
Peace River	11	Tight	UprColr
Peace River	11	Tight	MdlMnvl;LwrMnvl
Peace River	11	Tight	UprTri
Peace River	11	Tight	LwrTri
Peace River	11	Tight	Miss
Northwest Alberta	12	Conventional	Mnvl
Northwest Alberta	12	Conventional	Miss
Northwest Alberta	12	Conventional	UprDvn
Northwest Alberta	12	Conventional	MdlDvn
BC Deep Basin	13	Conventional	Colr
BC Deep Basin	13	Conventional	LwrTri
BC Deep Basin	13	Tight	Colr
BC Deep Basin	13	Tight	Mnvl
BC Deep Basin	13	Tight	LwrTri
Fort St. John	14	Conventional	Mnvl
Fort St. John	14	Conventional	Tri
Fort St. John	14	Conventional	Perm;Miss
Fort St. John	14	Conventional	UprDvn;MdlDvn
Fort St. John	14	Tight	Tri
Northeast BC	15	Conventional	LwrMnvl
Northeast BC	15	Conventional	Perm;Miss
Northeast BC	15	Conventional	UprDvn;MdlDvn
Northeast BC	15	Tight	UprDvn
Northeast BC	15	Shale	MdlDvn
BC Foothills	16	Conventional	Colr;Mnvl
BC Foothills	16	Conventional	Tri;Perm;Miss
Southwest Saskatchewan	17	Tight	UprColr
West Saskatchewan	18	Conventional	Colr
West Saskatchewan	18	Conventional	MdlMnvl;LwrMnvl;Miss
East Saskatchewan	19	Conventional	Solution Gas

Table A3.3 - Decline Parameters for Groupings of Existing Gas Connections

Resource Grouping - Gas - Alberta Coalbed Methane - Horseshoe Canyon						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2004	119.35	0.10	0.14	12.00	0.20	25.00
2005	248.60	0.19	0.18	10.00	0.16	20.00
2006	336.17	0.21	0.18	10.00	0.15	20.00
2007	248.50	0.53	0.20	6.00	0.16	20.00
2008	189.73	0.44	0.20	6.00	0.16	20.00
2009	160.95	0.00	0.00	0.00	0.00	0.00

Resource Grouping - Gas - Alberta Coalbed Methane - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2005	61.17	0.25	0.18	40.00	0.13	80.00
2006	256.83	0.25	0.18	40.00	0.13	80.00
2007	222.58	0.25	0.20	40.00	0.13	80.00
2008	183.30	0.25	0.20	40.00	0.13	80.00
2009	130.93	0.25	0.20	40.00	0.13	80.00

Resource Grouping - Gas - Alberta Coalbed Methane - Other						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2004	11.84	0.25	0.20	40.00	0.13	80.00
2005	24.65	0.25	0.20	40.00	0.13	80.00
2006	33.34	0.25	0.20	40.00	0.13	80.00
2007	24.64	0.25	0.20	40.00	0.13	80.00
2008	18.81	0.25	0.20	40.00	0.13	80.00
2009	17.07	0.25	0.20	40.00	0.13	80.00

Resource Grouping - Gas - Southern Alberta - Conventional - Tertiary, Upper Cretaceous, Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	46.69	0.15	0.05	10.00	0.05	80.00
2002	34.44	0.25	0.10	18.00	0.05	80.00
2003	14.22	0.18	0.05	40.00	0.05	80.00
2004	29.32	0.25	0.05	40.00	0.05	80.00
2005	22.77	0.20	0.09	40.00	0.05	80.00
2006	27.49	0.25	0.10	40.00	0.10	80.00
2007	29.80	0.15	0.13	40.00	0.13	80.00
2008	29.86	0.20	0.13	40.00	0.13	80.00
2009	8.25	0.20	0.30	10.00	0.10	30.00

Resource Grouping - Gas - Southern Alberta - Conventional - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	26.11	0.15	0.13	40.00	0.13	80.00
2002	19.02	0.15	0.13	20.00	0.13	80.00
2003	19.42	0.15	0.13	40.00	0.13	80.00
2004	20.01	0.18	0.13	40.00	0.13	80.00
2005	18.44	0.20	0.18	40.00	0.13	80.00
2006	14.12	0.20	0.18	40.00	0.13	80.00
2007	21.10	0.22	0.18	20.00	0.13	80.00
2008	11.83	0.55	0.25	10.00	0.13	30.00
2009	6.91	0.25	0.18	40.00	0.13	80.00

Resource Grouping - Gas - Southern Alberta - Conventional - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	141.03	0.90	0.60	12.00	0.35	20.00
2002	3.92	0.70	0.65	15.00	0.40	25.00
2003	31.34	0.20	0.70	7.00	0.40	12.00
2004	94.02	0.62	0.80	7.00	0.42	11.00
2005	68.95	0.60	0.61	7.00	0.35	18.00
2006	26.64	0.65	0.60	7.00	0.20	26.00
2007	9.79	0.62	0.52	10.00	1.90	25.00
2008	138.10	0.35	0.15	10.00	0.10	80.00
2009	52.37	0.30	0.13	25.00	0.10	80.00

Resource Grouping - Gas - Southern Alberta - Tight - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	610.34	0.80	0.20	9.00	0.21	22.00
2002	12.92	0.80	0.40	7.00	0.18	20.00
2003	35.90	0.65	0.38	7.00	0.22	16.00
2004	35.90	0.65	0.45	7.00	0.17	20.00
2005	28.72	0.90	0.25	7.00	0.25	20.00
2006	35.90	0.90	0.38	7.00	0.25	18.00
2007	68.21	0.80	0.40	7.00	0.22	18.00
2008	586.37	0.35	0.15	30.00	0.10	80.00
2009	399.65	0.75	0.15	20.00	0.10	60.00

Resource Grouping - Gas - Southwest Alberta - Conventional - Tertiary, Upper Cretaceous, Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	99.47	0.75	0.32	9.00	0.30	21.00
2002	6.90	0.83	0.52	10.00	0.30	18.00
2003	6.09	0.90	0.40	7.00	0.22	20.00
2004	101.50	0.99	0.95	5.00	0.30	15.00
2005	113.68	1.20	0.40	8.00	0.35	20.00
2006	2.44	0.80	0.42	11.00	0.26	20.00
2007	4.06	1.30	0.80	7.00	0.22	12.00
2008	75.82	0.55	0.15	20.00	0.13	80.00
2009	14.40	0.38	0.15	30.00	0.13	80.00

Resource Grouping - Gas - Southwest Alberta - Conventional - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	45.68	0.90	0.75	15.00	0.40	22.00
2002	0.01	1.20	0.40	7.00	0.35	20.00
2003	29.71	0.42	0.40	17.00	0.35	30.00
2004	0.15	0.50	0.95	15.00	0.85	21.00
2005	2.23	0.80	0.60	10.00	0.20	20.00
2006	7.80	1.00	0.90	7.00	0.70	16.00
2007	4.61	1.80	0.95	7.00	0.90	20.00
2008	8.23	0.65	0.15	15.00	0.10	60.00
2009	5.08	0.65	0.15	15.00	0.13	80.00

Resource Grouping - Gas - Southwest Alberta - Conventional - Middle Mannville, Lower Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	39.34	0.65	0.39	7.00	0.58	18.00
2002	23.14	1.20	0.30	7.00	0.45	30.00
2003	0.00	0.01	0.92	16.00	0.05	22.00
2004	1.02	0.65	0.60	7.00	0.40	22.00
2005	2.78	1.15	0.48	9.00	0.40	22.00
2006	14.81	0.98	0.40	12.00	0.90	30.00
2007	11.34	0.60	0.42	7.00	0.90	17.00
2008	44.83	0.25	0.14	25.00	0.10	80.00
2009	16.90	0.35	0.10	35.00	0.10	80.00

Resource Grouping - Gas - Southwest Alberta - Conventional - Jurassic, Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	41.73	0.95	0.20	12.00	0.15	25.00
2002	2.89	0.65	0.95	7.00	0.22	12.00
2003	0.81	0.40	0.41	7.00	0.25	20.00
2004	0.33	0.30	0.35	7.00	0.22	20.00
2005	0.49	0.65	0.60	7.00	0.21	20.00
2006	2.04	1.20	1.50	7.00	0.28	15.00
2007	1.22	1.15	0.30	10.00	1.20	25.00
2008	14.51	0.25	0.16	25.00	0.13	80.00
2009	2.05	0.38	0.15	25.00	0.13	80.00

Resource Grouping - Gas - Southwest Alberta - Conventional - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	28.16	1.40	0.40	7.00	0.20	20.00
2002	9.20	2.30	0.45	4.00	0.15	28.00
2003	57.05	0.65	0.60	7.00	0.10	17.00
2004	10.67	0.65	0.20	7.00	0.15	20.00
2005	0.97	0.18	0.20	10.00	0.15	16.00
2006	0.97	0.18	0.20	10.00	0.15	16.00
2007	6.44	0.67	0.70	7.00	0.25	20.00
2008	1.02	0.35	0.15	20.00	0.13	80.00
2009	0.00	0.35	0.15	20.00	0.13	80.00

Resource Grouping - Gas - Southwest Alberta - Tight - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	0.71	0.65	0.90	7.00	0.45	20.00
2002	0.21	0.65	0.40	7.00	0.70	30.00
2003	0.14	0.85	0.98	7.00	0.12	20.00
2004	0.57	0.85	0.58	7.00	0.75	20.00
2005	45.00	2.50	0.80	4.00	0.40	10.00
2006	6.29	1.30	0.50	7.00	0.20	16.00
2007	0.86	1.30	0.85	7.00	0.48	13.00
2008	1.19	0.37	0.13	30.00	0.13	80.00
2009	0.58	0.27	0.16	30.00	0.13	80.00

Resource Grouping - Gas - Southwest Alberta - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	17.34	1.30	0.78	5.00	1.20	8.00
2002	6.19	1.60	0.40	7.00	0.22	20.00
2003	0.74	0.65	0.23	7.00	0.26	20.00
2004	2.48	0.90	0.70	7.00	0.50	14.00
2005	7.68	1.20	1.00	7.00	0.25	16.00
2006	0.59	2.40	0.60	6.00	0.50	20.00
2007	1.24	0.30	1.00	15.00	1.50	22.00
2008	0.29	0.75	0.14	10.00	0.10	60.00
2009	2.94	0.25	0.18	30.00	0.13	80.00

Resource Grouping - Gas - Southwest Alberta - Tight - Lower Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	11.14	1.10	0.34	6.00	0.30	20.00
2002	0.71	0.80	0.22	7.00	0.23	20.00
2003	0.22	0.30	0.20	7.00	0.14	20.00
2004	23.02	0.18	0.20	17.00	0.40	25.00
2005	23.02	1.60	0.37	6.00	0.40	17.00
2006	3.71	0.75	0.35	7.00	0.58	18.00
2007	2.97	0.65	0.60	7.00	0.40	17.00
2008	30.26	0.30	0.18	30.00	0.13	80.00
2009	15.86	0.30	0.12	20.00	0.10	80.00

Resource Grouping - Gas - Southern Foothills - Conventional - Mississippian, Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	34.88	0.65	0.50	7.00	0.22	22.00
2002	37.85	0.05	0.08	40.00	0.15	60.00
2003	16.76	0.65	0.55	7.00	0.22	20.00
2004	3.71	0.20	0.32	12.00	0.40	28.00
2005	28.95	0.55	0.40	7.00	0.28	20.00
2006	96.49	0.40	0.90	7.00	0.50	20.00
2007	48.61	0.25	0.15	7.00	0.12	20.00
2008	19.37	0.15	0.12	20.00	0.10	80.00
2009	29.03	0.40	0.15	20.00	0.10	60.00

Resource Grouping - Gas - Eastern Alberta - Conventional - Upper Cretaceous, Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	10.75	0.65	0.55	7.00	0.16	35.00
2002	5.72	1.08	0.47	10.00	0.36	25.00
2003	0.52	0.95	0.47	10.00	0.30	28.00
2004	1.04	1.25	0.38	7.00	0.28	30.00
2005	13.82	0.80	0.30	10.00	0.28	21.00
2006	71.75	1.40	0.50	5.00	0.68	11.00
2007	2.43	0.65	0.64	7.00	0.15	15.00
2008	22.53	0.30	0.22	18.00	0.11	40.00
2009	4.57	0.45	0.21	20.00	0.10	40.00

Resource Grouping - Gas - Eastern Alberta - Conventional - Colorado, Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	297.53	0.80	0.71	7.00	0.29	19.00
2002	22.31	0.80	0.40	7.00	0.34	20.00
2003	602.49	0.75	0.68	7.00	0.35	14.00
2004	286.37	0.85	0.65	7.00	0.52	13.00
2005	691.75	0.80	0.70	7.00	0.30	15.00
2006	37.19	0.80	0.44	7.00	0.44	20.00
2007	48.35	0.87	0.35	14.00	1.80	24.00
2008	213.24	0.27	0.15	25.00	0.10	80.00
2009	94.39	0.45	0.17	20.00	0.10	42.00

Resource Grouping - Gas - Eastern Alberta - Tight - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	38.55	1.20	0.30	5.00	0.21	20.00
2002	0.36	1.10	0.25	6.00	0.22	22.00
2003	0.42	0.65	0.58	7.00	0.20	18.00
2004	0.77	0.95	0.45	7.00	0.13	20.00
2005	1.19	0.80	0.45	7.00	1.10	14.00
2006	1.19	1.00	0.20	6.00	0.38	18.00
2007	1.78	1.50	0.60	6.00	0.13	15.00
2008	0.61	0.29	0.19	20.00	0.12	40.00
2009	2.98	0.55	0.15	20.00	0.10	40.00

Resource Grouping - Gas - Central Alberta - Conventional - Tertiary, Upper Cretaceous						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	9.74	0.86	0.75	7.00	0.25	16.00
2002	6.30	1.40	0.35	6.00	0.22	20.00
2003	9.17	0.68	0.52	11.00	0.30	20.00
2004	11.46	0.80	0.42	7.00	0.22	20.00
2005	19.48	1.15	0.50	6.00	0.35	15.00
2006	13.75	0.80	0.40	9.00	0.26	18.00
2007	18.34	0.65	0.42	7.00	2.60	26.00
2008	186.74	0.28	0.12	25.00	0.10	60.00
2009	83.66	0.55	0.35	20.00	0.10	40.00

Resource Grouping - Gas - Central Alberta - Conventional - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	76.06	0.90	0.75	7.00	0.34	20.00
2002	56.36	1.60	1.40	5.00	0.90	8.00
2003	61.12	0.60	0.52	7.00	0.28	20.00
2004	4.75	1.15	0.69	7.00	0.22	19.00
2005	17.66	1.00	0.10	13.00	0.26	20.00
2006	47.53	0.69	1.00	7.00	0.15	13.00
2007	10.87	0.90	0.80	7.00	0.33	14.00
2008	11.99	0.35	0.12	25.00	0.10	50.00
2009	6.17	0.35	0.15	35.00	0.13	80.00

Resource Grouping - Gas - Central Alberta - Conventional - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	566.82	1.20	0.70	4.00	0.58	12.00
2002	30.37	0.68	0.42	7.00	0.42	18.00
2003	50.61	0.74	0.70	9.00	0.38	18.00
2004	30.37	0.85	0.50	7.00	0.39	20.00
2005	30.37	0.67	0.62	7.00	0.51	20.00
2006	70.85	0.55	0.55	7.00	0.46	20.00
2007	48.58	0.64	0.65	7.00	2.20	27.00
2008	251.04	0.30	0.15	28.00	0.10	45.00
2009	142.74	0.35	0.22	25.00	0.10	45.00

Resource Grouping - Gas - Central Alberta - Conventional - Mississippian, Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	23.78	0.25	0.18	40.00	0.13	80.00
2002	22.34	0.80	0.67	7.00	0.20	19.00
2003	136.94	0.85	0.40	7.00	0.08	20.00
2004	12.25	0.50	0.30	7.00	0.70	28.00
2005	5.41	0.93	0.82	7.00	0.15	18.00
2006	59.10	1.90	0.45	7.00	0.28	20.00
2007	25.95	1.10	0.55	7.00	0.30	17.00
2008	28.24	0.30	0.20	27.00	0.10	45.00
2009	9.60	0.30	0.17	30.00	0.10	60.00

Resource Grouping - Gas - Central Alberta - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	0.84	0.65	0.40	7.00	0.10	20.00
2002	15.01	1.40	0.25	6.00	0.27	13.00
2003	2.40	0.58	0.33	7.00	0.29	20.00
2004	10.21	1.20	0.52	7.00	0.19	19.00
2005	6.00	0.95	0.38	7.00	0.15	20.00
2006	5.40	0.55	0.14	7.00	0.36	20.00
2007	4.80	0.90	0.82	7.00	0.50	20.00
2008	10.89	0.30	0.15	25.00	0.10	45.00
2009	13.16	0.40	0.25	20.00	0.10	42.00

Resource Grouping - Gas - Central Alberta - Tight - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	24.00	0.18	0.45	16.00	0.20	20.00
2002	3.84	0.80	0.90	15.00	0.45	37.00
2003	11.52	0.55	0.34	7.00	0.40	18.00
2004	47.05	1.10	0.90	7.00	0.60	15.00
2005	2.30	0.37	0.61	7.00	0.30	15.00
2006	8.16	1.20	0.31	8.00	0.35	20.00
2007	5.04	0.80	0.12	6.00	0.75	19.00
2008	9.73	0.40	0.15	30.00	0.10	50.00
2009	10.63	0.59	0.28	17.00	0.10	40.00

Resource Grouping - Gas - West Central Alberta - Conventional - Tertiary						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	7.98	0.25	0.18	40.00	0.13	80.00
2002	36.30	0.62	0.30	6.00	0.18	21.00
2003	5.19	0.70	0.32	7.00	0.28	18.00
2004	13.56	0.58	0.49	8.00	0.38	20.00
2005	53.40	0.25	0.18	40.00	0.13	80.00
2006	11.17	0.69	0.41	8.00	0.36	20.00
2007	48.67	0.65	0.40	7.00	1.00	25.00
2008	56.54	0.39	0.20	25.00	0.10	45.00
2009	29.04	0.37	0.28	25.00	0.11	45.00

Resource Grouping - Gas - West Central Alberta - Conventional - Upper Cretaceous, Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	22.94	0.65	0.90	7.00	0.25	16.00
2002	45.88	0.85	0.35	12.00	0.25	20.00
2003	5.74	0.65	0.40	7.00	0.22	20.00
2004	5.74	0.65	0.48	7.00	0.35	20.00
2005	13.00	0.69	0.60	9.00	0.20	20.00
2006	12.24	0.80	0.40	8.00	0.28	21.00
2007	7.65	0.50	0.35	10.00	0.85	21.00
2008	52.79	0.25	0.15	30.00	0.12	45.00
2009	46.90	0.20	0.15	40.00	0.13	60.00

Resource Grouping - Gas - West Central Alberta - Conventional - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	6.49	0.30	0.25	7.00	0.20	24.00
2002	4.38	0.65	0.26	7.00	0.10	20.00
2003	2.19	0.80	0.65	15.00	0.90	20.00
2004	5.60	1.10	0.40	6.00	0.52	19.00
2005	6.09	0.60	0.68	7.00	0.36	20.00
2006	2.68	3.50	0.40	4.00	0.22	20.00
2007	2.52	2.00	0.30	7.00	1.30	22.00
2008	26.51	0.35	0.17	25.00	0.13	45.00
2009	0.42	0.45	0.25	20.00	0.10	40.00

Resource Grouping - Gas - West Central Alberta - Conventional - Lower Mannville, Jurassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	12.98	0.65	0.35	10.00	0.30	22.00
2002	24.79	0.65	0.45	7.00	0.35	22.00
2003	35.41	0.80	0.35	7.00	0.22	20.00
2004	8.85	0.65	0.45	7.00	0.22	20.00
2005	59.02	0.45	0.80	9.00	0.25	17.00
2006	118.03	1.30	0.40	7.00	0.10	28.00
2007	59.02	1.10	0.40	8.00	0.22	19.00
2008	130.78	0.37	0.20	25.00	0.10	45.00
2009	94.50	0.30	0.20	25.00	0.10	45.00

Resource Grouping - Gas - West Central Alberta - Conventional - Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	55.46	0.40	0.35	7.00	0.89	28.00
2002	521.02	0.45	0.65	8.00	0.52	20.00
2003	9.24	0.55	0.30	9.00	0.45	25.00
2004	21.01	0.89	0.35	10.00	0.11	30.00
2005	16.81	0.15	0.35	7.00	0.58	26.00
2006	31.93	0.68	0.62	7.00	0.32	20.00
2007	151.26	0.35	0.13	15.00	1.25	24.00
2008	56.05	0.57	0.20	25.00	0.11	44.00
2009	56.88	0.40	0.17	20.00	0.10	45.00

Resource Grouping - Gas - West Central Alberta - Conventional - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	10.49	0.25	0.20	7.00	0.33	60.00
2002	11.01	0.45	0.25	7.00	2.50	35.00
2003	55.60	0.20	0.08	7.00	0.22	25.00
2004	94.41	0.10	0.12	16.00	0.12	30.00
2005	19.93	0.35	0.10	10.00	1.00	48.00
2006	3.67	0.45	0.62	7.00	0.58	20.00
2007	20.98	0.15	0.26	7.00	0.55	22.00
2008	2.23	0.75	0.25	20.00	0.10	40.00
2009	15.83	0.65	0.30	25.00	0.10	45.00

Resource Grouping - Gas - West Central Alberta - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	0.78	0.20	0.35	7.00	1.30	32.00
2002	7.82	2.00	0.40	7.00	0.22	20.00
2003	14.91	1.10	0.42	7.00	0.35	20.00
2004	21.12	0.10	0.20	20.00	0.18	30.00
2005	1.67	1.00	0.62	7.00	0.25	15.00
2006	13.04	0.65	0.35	7.00	0.25	20.00
2007	2.61	0.45	0.55	7.00	0.35	16.00
2008	29.78	0.30	0.16	30.00	0.10	45.00
2009	2.43	0.35	0.25	25.00	0.11	45.00

Resource Grouping - Gas - West Central Alberta - Tight - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	15.10	0.75	0.50	7.00	0.20	20.00
2002	105.68	0.75	0.45	7.00	0.23	20.00
2003	30.19	0.55	0.44	7.00	0.30	20.00
2004	30.19	0.63	0.30	7.00	0.25	20.00
2005	63.40	0.55	0.40	7.00	0.25	20.00
2006	33.97	0.75	0.60	7.00	0.22	15.00
2007	83.03	0.85	0.58	7.00	0.13	13.00
2008	359.48	0.45	0.27	20.00	0.10	45.00
2009	257.93	0.48	0.30	30.00	0.10	45.00

Resource Grouping - Gas - Central Foothills - Conventional - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	40.62	0.40	0.20	12.00	0.15	45.00
2002	30.56	0.85	0.10	11.00	0.30	20.00
2003	17.41	0.65	0.40	7.00	0.22	25.00
2004	41.58	0.50	0.30	7.00	0.22	20.00
2005	18.57	0.25	0.30	10.00	0.20	36.00
2006	34.81	0.65	0.45	7.00	0.20	18.00
2007	14.31	1.30	0.30	8.00	0.60	25.00
2008	41.05	0.23	0.17	20.00	0.10	45.00
2009	6.93	0.45	0.25	25.00	0.10	45.00

Resource Grouping - Gas - Central Foothills - Conventional - Colorado, Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	29.12	0.55	0.40	7.00	0.32	20.00
2002	68.42	0.60	0.73	8.00	0.32	14.00
2003	33.75	0.80	0.44	7.00	0.27	15.00
2004	69.65	0.30	0.49	7.00	0.18	26.00
2005	43.92	0.40	0.32	7.00	0.21	20.00
2006	18.49	0.27	0.59	17.00	0.22	28.00
2007	22.19	1.10	0.90	7.00	0.32	15.00
2008	74.52	0.45	0.20	25.00	0.10	45.00
2009	33.68	0.37	0.25	25.00	0.10	45.00

Resource Grouping - Gas - Central Foothills - Conventional - Jurassic, Triassic, Permian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	33.52	0.27	0.25	32.00	0.22	43.00
2002	18.12	0.20	0.20	23.00	0.10	45.00
2003	30.80	0.35	0.45	7.00	0.08	26.00
2004	43.03	0.25	0.30	7.00	0.28	20.00
2005	12.68	0.30	1.20	6.00	0.50	14.00
2006	50.73	0.45	0.35	7.00	0.50	20.00
2007	36.23	0.75	0.55	7.00	0.22	20.00
2008	36.24	0.45	0.23	24.00	0.10	45.00
2009	51.91	0.20	0.18	30.00	0.12	45.00

Resource Grouping - Gas - Central Foothills - Conventional - Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	16.40	0.65	0.35	7.00	0.15	20.00
2002	188.63	0.25	0.45	7.00	0.15	16.00
2003	118.92	0.50	0.20	7.00	0.12	20.00
2004	135.32	0.65	0.20	7.00	0.12	40.00
2005	39.78	0.65	0.18	9.00	0.18	50.00
2006	78.73	0.55	0.22	7.00	0.38	22.00
2007	36.09	0.49	0.30	18.00	0.70	25.00
2008	82.95	0.30	0.20	25.00	0.10	45.00
2009	45.59	0.30	0.25	25.00	0.10	45.00

Resource Grouping - Gas - Central Foothills - Conventional - Upper Devonian, Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	16.07	0.28	0.15	20.00	0.50	40.00
2002	126.55	0.05	0.30	28.00	0.10	50.00
2003	40.18	0.15	0.60	14.00	0.12	19.00
2004	28.12	0.25	0.22	20.00	0.10	45.00
2005	70.31	0.20	0.15	20.00	0.70	45.00
2006	15.07	0.25	0.30	7.00	0.22	20.00
2007	40.68	0.25	1.80	7.00	0.30	20.00
2008	5.78	0.39	0.18	22.00	0.10	45.00
2009	2.81	0.35	0.20	20.00	0.10	40.00

Resource Grouping - Gas - Central Foothills - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	3.51	0.25	0.18	40.00	0.13	80.00
2003	1.58	1.20	0.95	7.00	0.55	20.00
2004	2.74	0.15	0.70	40.00	0.15	45.00
2005	5.76	0.70	0.18	25.00	1.00	52.00
2006	0.50	0.90	0.10	5.00	0.22	20.00
2007	12.10	1.20	0.40	9.00	0.90	30.00
2008	0.85	0.20	0.15	25.00	0.10	45.00
2009	2.37	0.38	0.25	25.00	0.10	40.00

Resource Grouping - Gas - Central Foothills - Tight - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	0.96	0.65	0.40	7.00	0.22	20.00
2002	11.25	1.20	0.80	7.00	0.60	500.00
2003	2.16	0.25	0.18	40.00	0.13	80.00
2004	2.59	1.20	0.65	7.00	0.35	20.00
2005	10.40	1.50	0.85	7.00	0.55	20.00
2006	14.06	1.80	0.45	7.00	0.20	20.00
2007	0.90	0.27	0.19	25.00	0.10	45.00
2008	0.00	0.00	0.00	0.00	0.00	0.00

Resource Grouping - Gas - Central Foothills - Tight - Jurassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2006	4.98	0.85	0.75	7.00	0.22	20.00
2007	31.83	0.80	0.60	7.00	0.40	20.00
2008	31.34	0.30	0.20	25.00	0.10	45.00
2009	8.31	0.30	0.20	31.00	0.10	45.00

Resource Grouping - Gas - Kaybob - Conventional - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	24.78	1.20	0.55	6.00	0.50	20.00
2002	9.09	0.95	0.57	7.00	0.35	20.00
2003	28.91	1.90	1.20	7.00	0.45	15.00
2004	24.78	1.60	0.80	7.00	0.20	20.00
2005	28.91	0.95	0.85	7.00	0.25	20.00
2006	28.91	0.25	0.18	40.00	0.13	80.00
2007	8.26	0.25	0.18	40.00	0.13	80.00
2008	9.33	0.30	0.20	20.00	0.10	40.00
2009	7.42	0.35	0.25	25.00	0.10	45.00

Resource Grouping - Gas - Kaybob - Conventional - Mannville, Jurassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	25.07	0.70	0.60	7.00	0.28	20.00
2002	19.73	0.25	0.18	40.00	0.13	80.00
2003	65.76	0.90	0.32	11.00	0.25	38.00
2004	51.37	0.75	0.40	7.00	0.15	45.00
2005	104.80	1.05	0.85	7.00	0.25	17.00
2006	115.07	0.95	0.53	7.00	0.45	25.00
2007	105.59	0.27	0.75	11.00	0.70	25.00
2008	52.25	0.30	0.20	25.00	0.10	45.00
2009	84.82	0.30	0.22	25.00	0.10	45.00

Resource Grouping - Gas - Kaybob - Conventional - Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	32.60	0.65	0.40	7.00	0.35	20.00
2002	34.02	0.45	0.38	7.00	0.22	40.00
2003	24.44	0.50	0.62	7.00	0.18	20.00
2004	30.33	1.10	0.62	8.00	0.22	20.00
2005	53.87	0.65	0.50	7.00	0.22	20.00
2006	62.37	1.30	0.75	7.00	0.30	14.00
2007	59.54	0.60	0.20	19.00	0.45	25.00
2008	12.29	0.22	0.18	20.00	0.10	45.00
2009	12.46	0.23	0.20	25.00	0.11	45.00

Resource Grouping - Gas - Kaybob - Conventional - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	4.33	0.70	1.00	7.00	0.25	20.00
2002	7.48	0.50	0.30	20.00	0.22	30.00
2003	15.75	0.30	0.80	7.00	0.12	13.00
2004	15.75	0.30	0.80	7.00	0.12	13.00
2005	0.80	1.60	0.40	12.00	0.22	20.00
2006	5.12	0.25	0.18	40.00	0.13	80.00
2007	13.78	0.75	0.38	7.00	0.22	20.00
2008	6.72	0.35	0.18	25.00	0.10	45.00

Resource Grouping - Gas - Kaybob - Tight - Colorado, Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	106.94	1.05	0.75	7.00	0.20	15.00
2002	48.38	1.20	0.40	7.00	0.22	20.00
2003	53.38	0.26	0.45	10.00	0.16	40.00
2004	73.93	0.70	0.40	7.00	0.22	20.00
2005	109.49	0.95	0.60	7.00	0.35	18.00
2006	211.33	0.95	0.55	7.00	0.22	20.00
2007	99.30	1.10	0.30	10.00	0.75	22.00
2008	93.81	0.35	0.25	25.00	0.10	45.00
2009	92.23	0.43	0.30	25.00	0.10	45.00

Resource Grouping - Gas - Kaybob - Tight - Colorado, Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	5.42	0.20	0.15	20.00	0.10	40.00
2002	7.76	0.25	0.15	20.00	0.10	45.00
2003	8.59	0.20	0.15	15.00	0.10	40.00
2004	10.49	0.25	0.15	25.00	0.10	45.00
2005	17.75	0.25	0.15	25.00	0.10	45.00
2006	23.31	0.25	0.15	25.00	0.11	45.00
2007	29.00	0.25	0.15	25.00	0.10	45.00
2008	23.91	0.25	0.18	40.00	0.13	80.00
2009	38.72	0.40	0.32	25.00	0.10	45.00

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Cretaceous						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	14.64	0.95	0.60	7.00	0.30	20.00
2002	13.18	1.05	0.55	7.00	0.18	16.00
2003	27.82	1.00	0.65	7.00	0.17	20.00
2004	26.35	0.45	0.65	10.00	0.25	20.00
2005	18.67	0.65	0.40	7.00	0.24	20.00
2006	13.36	0.55	0.40	7.00	0.15	16.00
2007	10.07	1.30	0.25	10.00	0.30	18.00
2008	7.40	0.28	0.18	25.00	0.10	45.00
2009	8.27	0.22	0.17	25.00	0.10	45.00

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	63.32	1.05	0.30	6	0.22	20
2002	32.16	1.15	0.40	6	0.22	20
2003	25.58	1.15	0.45	6	0.22	20
2004	42.29	1.25	0.42	7	0.22	20
2005	31.91	0.95	0.40	7	0.28	20
2006	81.04	0.97	0.40	6	0.30	20
2007	63.32	1.25	0.30	7	0.22	20
2008	12.57	1.25	0.40	6	0.22	20
2009	6.15	1.25	0.40	7	0.22	20

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Mannville, Jurassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	2.01	0.90	0.60	7.00	0.14	20.00
2002	2.31	0.35	0.07	20.00	0.25	85.00
2003	6.70	1.30	0.20	10.00	0.25	72.00
2004	18.48	1.20	0.65	7.00	0.22	15.00
2005	26.57	1.60	0.90	7.00	0.58	12.00
2006	25.06	0.87	0.50	7.00	0.26	22.00
2007	32.34	0.80	0.40	12.00	0.25	30.00
2008	15.75	0.28	0.17	25.00	0.10	45.00
2009	3.42	0.50	0.25	25.00	0.15	45.00

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	14.96	0.20	0.22	10.00	0.23	20.00
2002	26.23	0.35	0.40	7.00	0.22	20.00
2003	26.23	0.85	0.40	7.00	0.22	20.00
2004	40.11	0.80	0.50	7.00	0.28	20.00
2005	45.36	0.65	0.50	10.00	0.25	22.00
2006	34.87	0.55	0.35	7.00	0.65	27.00
2007	32.40	0.60	0.75	7.00	0.25	20.00
2008	5.95	0.40	0.20	25.00	0.10	45.00
2009	7.40	0.35	0.25	20.00	0.10	40.00

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	17.47	0.85	0.65	7.00	0.30	20.00
2002	22.91	0.80	0.35	15.00	0.18	20.00
2003	9.89	0.70	0.75	7.00	0.23	15.00
2004	36.26	0.65	0.18	7.00	0.20	20.00
2005	7.75	0.85	0.75	12.00	0.50	27.00
2006	0.00	0.25	0.18	40.00	0.13	80.00
2007	44.99	0.12	0.18	500.00	0.13	80.00
2008	0.00	0.25	0.15	252.00	0.10	45.00
2009	7.25	0.28	0.16	20.00	0.10	45.00

Resource Grouping - Gas - Alberta Deep Basin - Tight - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	63.69	0.85	0.40	7.00	0.22	20.00
2002	62.09	1.30	0.20	7.00	0.18	20.00
2003	48.07	0.65	0.40	7.00	0.22	20.00
2004	120.17	0.75	0.45	7.00	0.22	20.00
2005	176.24	0.85	0.40	9.00	0.22	20.00
2006	244.34	0.85	0.40	7.00	0.22	20.00
2007	186.26	1.10	0.60	7.00	0.22	18.00
2008	56.46	0.32	0.22	25.00	0.10	45.00
2009	49.80	0.40	0.25	25.00	0.10	45.00

Resource Grouping - Gas - Alberta Deep Basin - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	55.18	0.25	1.20	7.00	0.28	16.00
2002	34.38	0.40	0.65	11.00	0.45	25.00
2003	49.45	0.65	0.60	7.00	0.28	20.00
2004	35.66	0.35	0.50	12.00	0.40	20.00
2005	36.08	0.70	0.60	9.00	0.30	20.00
2006	40.75	0.62	0.47	7.00	0.22	20.00
2007	92.96	1.00	0.45	7.00	0.30	20.00
2008	22.72	0.32	0.17	25.00	0.11	45.00
2009	5.65	0.31	0.20	25.00	0.10	45.00

Resource Grouping - Gas - Alberta Deep Basin - Tight - Mannville, Jurassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	139.34	1.60	0.65	5.00	0.27	20.00
2002	141.07	0.60	0.50	7.00	0.30	25.00
2003	227.89	0.65	0.58	7.00	0.26	20.00
2004	477.48	0.50	0.65	7.00	0.29	18.00
2005	629.40	0.65	0.60	7.00	0.25	20.00
2006	933.25	0.65	0.50	7.00	0.22	20.00
2007	1167.65	0.75	0.50	7.00	0.22	25.00
2008	351.75	0.23	0.15	25.00	0.10	45.00
2009	267.42	0.35	0.25	25.00	0.10	45.00

Resource Grouping - Gas - Alberta Deep Basin - Tight - Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	4.12	0.10	0.05	10.00	0.05	45.00
2002	1.76	0.12	0.10	20.00	0.10	45.00
2003	2.68	0.15	0.10	25.00	0.10	45.00
2004	4.36	0.20	0.15	20.00	0.10	45.00
2005	7.86	0.23	0.15	25.00	0.10	45.00
2006	5.67	0.25	0.15	25.00	0.10	45.00
2007	2.52	0.25	0.17	25.00	0.10	45.00
2008	10.08	0.30	0.20	25.00	0.10	45.00
2009	24.74	0.30	0.15	25.00	0.10	45.00

Resource Grouping - Gas - Northeast Alberta - Conventional - Mannville, Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	330.15	0.35	0.25	7.00	0.15	20.00
2002	170.77	0.25	0.28	7.00	0.20	20.00
2003	235.28	0.45	0.30	7.00	0.27	20.00
2004	201.12	0.10	0.38	7.00	0.24	20.00
2005	159.38	0.65	0.45	7.00	0.22	24.00
2006	221.99	0.65	0.40	7.00	0.25	20.00
2007	208.71	0.65	0.43	7.00	0.22	20.00
2008	46.15	0.30	0.18	25.00	0.10	45.00
2009	29.71	0.30	0.20	25.00	0.10	45.00

Resource Grouping - Gas - Peace River - Conventional - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	2.76	0.35	2.00	12.00	0.08	21.00
2002	2.24	0.50	0.25	7.00	0.33	20.00
2003	12.50	0.35	0.50	8.00	0.50	20.00
2004	18.66	0.65	0.40	7.00	0.32	20.00
2005	31.15	0.65	0.55	7.00	0.42	20.00
2006	12.13	0.85	0.55	7.00	0.50	20.00
2007	14.74	0.85	1.20	7.00	0.15	15.00
2008	1.03	0.25	0.15	25.00	0.12	45.00
2009	0.65	0.30	0.15	25.00	0.10	45.00

Resource Grouping - Gas - Peace River - Conventional - Colorado, Upper Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	14.79	0.95	0.65	7.00	0.40	20.00
2002	3.41	1.20	0.70	7.00	1.20	20.00
2003	6.83	0.40	0.40	7.00	0.75	20.00
2004	17.92	0.65	0.70	7.00	0.25	18.00
2005	35.83	0.50	0.40	7.00	0.45	20.00
2006	37.82	0.80	0.50	7.00	0.78	22.00
2007	48.91	0.37	0.85	15.00	0.25	30.00
2008	8.91	0.32	0.15	25.00	0.11	45.00
2009	5.21	0.45	0.25	25.00	0.10	45.00

Resource Grouping - Gas - Peace River - Conventional - Middle Mannville, Lower Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	35.88	0.95	0.30	7.00	0.18	20.00
2002	28.70	1.40	0.65	9.00	0.35	20.00
2003	34.80	0.65	1.30	9.00	0.55	13.00
2004	36.96	0.05	0.90	10.00	0.65	20.00
2005	52.03	1.05	0.95	7.00	0.40	20.00
2006	129.17	1.15	0.75	7.00	0.25	16.00
2007	147.83	1.55	0.45	9.00	0.25	30.00
2008	26.22	0.40	0.20	25.00	0.10	45.00
2009	16.59	0.50	0.30	25.00	0.10	45.00

Resource Grouping - Gas - Peace River - Conventional - Upper Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	17.21	0.25	0.30	7.00	0.38	25.00
2002	21.51	1.80	0.85	7.00	0.25	20.00
2003	40.45	0.65	1.60	7.00	0.35	14.00
2004	22.37	0.55	0.10	17.00	0.50	35.00
2005	24.53	1.60	0.50	6.00	0.55	20.00
2006	64.54	0.70	0.65	10.00	0.55	23.00
2007	35.28	1.65	0.65	7.00	0.30	20.00
2008	8.66	0.40	0.20	23.00	0.11	45.00
2009	2.19	0.50	0.20	25.00	0.10	45.00

Resource Grouping - Gas - Peace River - Conventional - Lower Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	26.64	0.45	0.60	7.00	0.38	20.00
2002	36.46	0.95	0.50	7.00	0.25	16.00
2003	28.33	1.10	0.60	7.00	0.20	20.00
2004	31.13	0.70	0.70	7.00	0.15	29.00
2005	39.97	1.15	0.60	7.00	0.25	20.00
2006	91.15	1.40	0.35	7.00	0.35	20.00
2007	105.17	1.05	0.70	5.00	0.30	20.00
2008	12.40	0.30	0.20	25.00	0.10	45.00
2009	14.06	0.42	0.30	25.00	0.13	45.00

Resource Grouping - Gas - Peace River - Conventional - Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	71.28	0.35	0.50	10.00	0.55	20.00
2002	45.94	1.80	0.20	8.00	0.85	16.00
2003	68.11	0.45	0.85	12.00	0.23	28.00
2004	92.27	0.25	0.45	8.00	0.25	20.00
2005	121.97	0.30	0.95	10.00	0.28	22.00
2006	73.66	0.90	0.75	7.00	0.25	15.00
2007	71.28	1.75	0.95	7.00	0.25	15.00
2008	50.05	0.35	0.20	25.00	0.12	45.00
2009	19.17	0.40	0.30	25.00	0.12	45.00

Resource Grouping - Gas - Peace River - Conventional - Upper Devonian, Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	4.14	0.65	0.25	9.00	0.20	20.00
2002	25.00	0.20	0.65	25.00	0.22	40.00
2003	2.29	0.75	1.20	7.00	0.85	30.00
2004	11.23	0.75	1.20	7.00	0.85	30.00
2005	17.39	0.10	0.95	10.00	0.24	28.00
2006	13.77	1.43	0.30	9.00	0.25	20.00
2007	27.05	3.00	2.50	7.00	1.50	30.00
2008	1.08	0.45	0.25	25.00	0.10	45.00
2009	1.45	0.30	0.20	25.00	0.10	45.00

Resource Grouping - Gas - Northwest Alberta - Conventional - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	76.31	0.60	0.30	7.00	0.25	20.00
2002	58.09	0.75	0.35	7.00	0.22	20.00
2003	63.37	0.70	0.30	9.00	0.18	20.00
2004	58.09	0.50	0.25	10.00	0.15	20.00
2005	52.02	0.05	0.40	7.00	0.22	20.00
2006	53.34	0.35	0.18	7.00	0.13	500.00
2007	38.55	0.70	0.40	8.00	0.35	20.00
2008	22.86	0.18	0.15	25.00	0.10	45.00
2009	5.14	0.18	0.17	25.00	0.10	45.00

Resource Grouping - Gas - Northwest Alberta - Conventional - Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	33.80	0.40	0.50	7.00	0.24	20.00
2002	29.62	0.65	0.55	7.00	0.27	15.00
2003	20.56	0.85	0.30	7.00	0.15	20.00
2004	27.88	0.68	0.75	7.00	0.25	20.00
2005	36.59	0.65	0.40	7.00	0.22	20.00
2006	28.93	0.95	0.32	5.00	0.14	20.00
2007	21.08	0.95	0.55	7.00	0.45	20.00
2008	6.18	0.20	0.17	25.00	0.11	45.00
2009	1.45	0.20	0.18	25.00	0.10	45.00

Resource Grouping - Gas - Northwest Alberta - Conventional - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	83.30	1.05	0.50	7.00	0.70	20.00
2002	99.96	1.50	1.10	7.00	0.32	15.00
2003	109.96	0.95	0.40	10.00	0.75	25.00
2004	119.95	1.10	0.90	4.00	0.40	10.00
2005	55.98	1.25	1.10	7.00	0.70	20.00
2006	129.95	2.70	0.45	7.00	0.30	20.00
2007	38.98	1.80	0.50	7.00	0.40	20.00
2008	12.86	0.40	0.22	25.00	0.10	45.00
2009	12.61	0.50	0.25	25.00	0.11	45.00

Resource Grouping - Gas - Northwest Alberta - Conventional - Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	5.45	1.20	1.15	7.00	0.65	25.00
2002	6.26	1.45	1.25	10.00	0.40	25.00
2003	15.25	0.75	0.85	7.00	0.75	20.00
2004	24.51	0.95	0.70	7.00	0.58	20.00
2005	28.05	0.90	0.75	7.00	0.85	19.00
2006	18.25	2.70	1.30	7.00	0.30	20.00
2007	18.25	1.60	1.30	7.00	0.30	20.00
2008	8.27	0.45	0.25	25.00	0.12	45.00
2009	8.56	0.35	0.25	25.00	0.12	45.00

Resource Grouping - Gas - BC Deep Basin - Conventional - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	15.10	1.85	0.60	10.00	0.30	20.00
2002	8.33	0.45	0.60	10.00	0.30	20.00
2003	6.25	1.95	1.45	10.00	0.60	25.00
2004	61.17	0.45	0.85	7.00	0.35	15.00
2005	26.29	0.80	0.65	7.00	0.20	18.00
2006	1.18	1.45	0.65	7.00	0.22	20.00
2007	0.23	0.25	0.18	40.00	0.13	80.00
2008	1.02	0.45	0.25	25.00	0.12	45.00
2009	0.98	0.20	0.15	25.00	0.10	45.00

Resource Grouping - Gas - BC Deep Basin - Conventional - Lower Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2003	0.68	1.30	0.75	20.00	0.65	30.00
2004	1.31	3.50	0.75	8.00	0.75	20.00
2005	32.97	0.15	0.25	20.00	0.18	30.00
2006	11.07	0.45	0.32	8.00	0.75	30.00
2007	38.20	0.15	0.35	7.00	0.22	20.00
2008	22.19	0.30	0.27	25.00	0.13	45.00
2009	63.16	0.20	0.15	25.00	0.12	45.00

Resource Grouping - Gas - BC Deep Basin - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	7.20	1.85	0.30	6.00	0.20	20.00
2002	18.42	1.45	0.40	6.00	0.22	20.00
2003	19.43	1.25	0.95	7.00	0.25	15.00
2004	4.78	1.25	0.40	7.00	0.25	20.00
2005	3.14	1.65	0.25	14.00	0.18	25.00
2006	12.09	1.40	0.60	7.00	0.22	22.00
2007	15.20	0.30	0.25	7.00	0.22	20.00
2008	4.52	0.33	0.15	25.00	0.10	45.00
2009	1.39	0.45	0.25	25.00	0.10	45.00

Resource Grouping - Gas - BC Deep Basin - Tight - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	19.15	0.85	0.70	18.00	0.30	22.00
2002	15.11	1.95	0.45	7.00	0.25	20.00
2003	40.86	1.25	0.37	7.00	0.22	20.00
2004	95.76	1.80	0.50	7.00	0.27	20.00
2005	185.14	1.80	0.60	7.00	0.25	20.00
2006	323.46	1.95	0.65	7.00	0.30	20.00
2007	238.34	1.95	0.85	7.00	0.30	20.00
2008	96.66	0.40	0.18	25.00	0.12	45.00
2009	71.60	0.20	0.15	25.00	0.12	45.00

Resource Grouping - Gas - BC Deep Basin - Tight - Lower Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2008	18.58	0.42	0.19	25.00	0.12	45.00
2009	13.76	0.21	0.16	25.00	0.12	45.00

Resource Grouping - Gas - Fort St John - Conventional - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	64.13	0.55	0.35	7.00	0.31	20.00
2002	48.88	1.05	0.40	7.00	0.21	20.00
2003	64.62	1.00	0.40	8.00	0.22	20.00
2004	128.26	0.65	0.40	7.00	0.30	20.00
2005	140.36	0.45	0.55	7.00	0.30	17.00
2006	223.85	0.95	0.45	7.00	0.22	20.00
2007	159.96	0.80	0.55	7.00	0.22	20.00
2008	55.65	0.24	0.16	25.00	0.10	45.00
2009	21.24	0.22	0.17	25.00	0.12	45.00

Resource Grouping - Gas - Fort St John - Conventional - Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	46.14	0.75	0.35	7.00	0.25	20.00
2002	40.29	0.95	0.45	5.00	0.30	20.00
2003	44.60	1.15	0.55	7.00	0.30	20.00
2004	79.97	0.85	0.42	7.00	0.25	20.00
2005	103.81	0.90	0.42	7.00	0.27	20.00
2006	138.41	0.70	0.60	9.00	0.22	20.00
2007	216.09	0.90	0.50	7.00	0.22	20.00
2008	92.35	0.30	0.15	25.00	0.10	45.00
2009	184.49	0.25	0.17	25.00	0.12	45.00

Resource Grouping - Gas - Fort St John - Conventional - Permian, Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	1.55	0.15	0.74	7.00	0.45	25.00
2002	3.76	0.18	0.85	7.00	0.18	20.00
2003	5.49	0.30	0.15	7.00	0.45	20.00
2004	4.84	0.10	0.32	12.00	0.40	55.00
2005	5.20	1.00	0.25	10.00	0.15	20.00
2006	9.18	0.65	0.50	7.00	0.30	20.00
2007	31.81	0.15	0.20	7.00	0.15	20.00
2008	7.04	0.25	0.15	25.00	0.12	45.00
2009	22.48	0.25	0.18	25.00	0.10	45.00

Resource Grouping - Gas - Fort St John - Conventional - Upper Devonian, Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	188.89	0.30	1.05	7.00	0.75	25.00
2002	58.12	0.25	1.30	6.00	0.85	18.00
2003	104.62	0.60	0.52	7.00	0.22	25.00
2004	19.91	0.90	0.25	7.00	0.15	20.00
2005	37.78	0.25	0.68	7.00	0.43	20.00
2006	13.66	0.90	0.40	7.00	0.30	20.00
2007	11.91	0.10	0.90	8.00	0.40	25.00
2008	0.00	0.00	0.00	0.00	0.00	0.00
2009	6.13	0.22	0.18	25.00	0.12	45.00

Resource Grouping - Gas - Fort St John - Tight - Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2008	146.47	0.22	0.16	25.00	0.12	45.00
2009	40.08	0.37	0.22	25.00	0.12	45.00

Resource Grouping - Gas - Northeast BC - Conventional - Lower Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	18.71	0.65	0.35	7.00	0.22	20.00
2002	8.59	0.45	0.20	7.00	0.22	20.00
2003	8.27	1.35	0.40	7.00	0.22	20.00
2004	3.05	0.55	0.10	5.00	0.05	20.00
2005	2.13	0.10	0.40	10.00	0.22	25.00
2006	3.92	0.45	0.25	7.00	0.14	20.00
2007	3.92	0.45	0.25	7.00	0.14	20.00
2008	1.52	0.25	0.15	25.00	0.12	45.00
2009	0.37	0.95	0.35	4.00	0.22	20.00

Resource Grouping - Gas - Northeast BC - Conventional - Permian, Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	9.78	0.10	0.55	30.00	0.48	45.00
2002	33.79	0.25	0.24	7.00	0.30	22.00
2003	11.38	0.10	0.65	7.00	0.50	25.00
2004	24.90	0.65	0.55	20.00	0.45	35.00
2005	30.23	0.45	0.30	10.00	0.25	30.00
2006	23.83	1.35	0.60	7.00	0.30	20.00
2007	7.20	0.25	0.12	7.00	0.10	20.00
2008	1.86	0.20	0.15	25.00	0.12	45.00
2009	1.02	0.24	0.22	25.00	0.12	45.00

Resource Grouping - Gas - Northeast BC - Conventional - Upper Devonian, Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	100.20	0.13	0.10	30.00	0.15	45.00
2002	22.74	0.65	0.55	7.00	0.47	20.00
2003	57.81	1.25	0.45	7.00	0.30	20.00
2004	123.32	0.65	0.35	7.00	0.20	20.00
2005	67.44	0.15	0.35	7.00	0.18	15.00
2006	55.11	0.75	0.55	7.00	0.22	18.00
2007	21.27	0.20	0.65	7.00	0.30	20.00
2008	6.23	0.40	0.15	25.00	0.12	45.00
2009	0.40	0.20	0.15	25.00	0.12	45.00

Resource Grouping - Gas - Northeast BC - Tight - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	86.38	0.95	0.50	7.00	0.23	15.00
2002	93.94	1.35	0.50	7.00	0.25	20.00
2003	252.03	1.35	0.40	7.00	0.33	20.00
2004	286.40	1.35	0.50	7.00	0.28	20.00
2005	325.35	1.55	0.50	7.00	0.25	20.00
2006	253.18	1.65	0.65	6.00	0.27	15.00
2007	350.56	1.95	0.65	6.00	0.27	20.00
2008	82.11	0.40	0.20	25.00	0.14	45.00
2009	47.75	0.25	0.20	25.00	0.13	45.00

Resource Grouping - Gas - Northeast BC - Shale - Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2008	6 (IP)	1.16	0.27	13	0.22	25
2009	6 (IP)	1.16	0.27	13	0.22	25

IP = Initial production per connection

Resource Grouping - Gas - BC Foothills - Conventional - Colorado, Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2003	4.56	0.50	0.45	15.00	0.20	20.00
2004	22.01	0.65	0.40	15.00	0.37	25.00
2005	25.93	0.65	0.60	7.00	0.25	20.00
2006	30.84	0.65	0.40	9.00	0.22	25.00
2007	46.25	0.65	0.50	7.00	0.25	20.00
2008	37.52	0.25	0.15	25.00	0.12	45.00
2009	31.91	0.25	0.15	25.00	0.12	45.00

Resource Grouping - Gas - BC Foothills - Conventional - Triassic, Permian, Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	58.91	0.60	0.05	7.00	0.22	35.00
2002	21.46	0.05	0.45	5.00	0.30	25.00
2003	147.26	0.05	0.45	10.00	0.20	25.00
2004	114.45	0.30	0.40	25.00	0.22	35.00
2005	80.78	0.30	0.25	7.00	0.12	20.00
2006	207.01	0.30	0.22	7.00	0.12	20.00
2007	143.06	0.50	0.45	7.00	0.22	25.00
2008	129.41	0.20	0.16	25.00	0.11	45.00
2009	70.74	0.25	0.20	25.00	0.12	45.00

Resource Grouping - Gas - Southwest Saskatchewan - Tight - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	78.67	0.62	0.30	7.00	0.22	20.00
2002	131.64	0.65	0.26	7.00	0.20	20.00
2003	173.07	0.55	0.32	7.00	0.22	20.00
2004	163.11	0.80	0.25	7.00	0.22	20.00
2005	175.69	0.90	0.40	7.00	0.27	20.00
2006	165.21	0.95	0.40	5.00	0.30	20.00
2007	178.32	0.95	0.45	7.00	0.22	20.00
2008	52.87	0.35	0.18	25.00	0.12	45.00
2009	21.71	0.28	0.20	25.00	0.12	45.00

Resource Grouping - Gas - West Saskatchewan - Conventional - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	7.77	0.80	0.48	7.00	0.25	20.00
2002	5.57	1.80	0.40	5.00	0.35	20.00
2003	11.82	1.00	0.55	7.00	0.22	20.00
2004	27.23	1.50	0.45	6.00	0.25	20.00
2005	36.91	2.50	0.55	5.00	0.40	18.00
2006	31.24	0.95	0.70	8.00	0.25	20.00
2007	27.59	1.00	0.55	8.00	0.22	15.00
2008	7.50	0.25	0.18	25.00	0.12	45.00
2009	4.56	0.35	0.20	25.00	0.10	45.00

Resource Grouping - Gas - West Saskatchewan - Conventional - Middle Mannville, Lower Mannville, Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2009 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	28.12	0.85	0.60	7.00	0.35	20.00
2002	23.16	0.50	0.35	7.00	0.45	20.00
2003	26.47	0.85	0.65	7.00	0.40	20.00
2004	41.35	0.75	0.65	7.00	0.55	20.00
2005	52.93	0.95	0.65	7.00	0.50	23.00
2006	57.35	0.80	0.45	7.00	0.35	20.00
2007	42.73	0.70	0.50	8.00	0.30	20.00
2008	8.08	0.30	0.18	25.00	0.12	45.00
2009	6.62	0.40	0.25	25.00	0.12	45.00

A4 Decline Parameters for Groupings of Future Gas Connections

Resource Grouping - Gas - Alberta Coalbed Methane - Mannville										
Connection Year	Peak Production MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2006	0.34	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	0.38	0.01	0.40	15.00	0.20	30.00	0.15	50.00	0.10	100.00
2008	0.38	0.01	0.40	15.00	0.20	30.00	0.15	50.00	0.10	100.00
2009	0.38	0.01	0.40	15.00	0.20	30.00	0.15	50.00	0.10	100.00
2010	0.38	0.01	0.40	15.00	0.20	30.00	0.15	50.00	0.10	100.00
2011	0.38	0.01	0.40	15.00	0.20	30.00	0.15	50.00	0.10	100.00
2012	0.38	0.01	0.40	15.00	0.20	30.00	0.15	50.00	0.10	100.00
2013	0.38	0.01	0.40	15.00	0.20	30.00	0.15	50.00	0.10	100.00

Resource Grouping - Gas - Alberta Coalbed Methane - Horseshoe Canyon										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2004	0.09	0.10	0.14	12.00	0.20	25.00	0.12	45.00	0.10	90.00
2005	0.08	0.20	0.18	10.00	0.16	20.00	0.12	45.00	0.10	90.00
2006	0.09	0.22	0.18	10.00	0.15	20.00	0.12	45.00	0.10	90.00
2007	0.09	0.55	0.20	6.00	0.16	20.00	0.12	45.00	0.10	90.00
2008	0.08	0.45	0.20	6.00	0.16	20.00	0.12	45.00	0.10	90.00
2009	0.08	0.65	0.20	4.00	0.12	30.00	0.12	45.00	0.12	90.00
2010	0.08	0.55	0.20	5.00	0.16	20.00	0.12	45.00	0.00	0.00
2011	0.08	0.55	0.20	5.00	0.16	20.00	0.12	45.00	0.00	0.00
2012	0.08	0.55	0.20	5.00	0.16	20.00	0.12	45.00	0.00	0.00
2013	0.08	0.55	0.20	5.00	0.16	20.00	0.12	45.00	0.00	0.00

Resource Grouping - Gas - Alberta Coalbed Methane - Other										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2004	0.05	0.65	0.40	7.00	0.10	15.00	0.05	45.00	0.05	90.00
2005	0.04	0.55	0.25	7.00	0.15	20.00	0.05	45.00	0.05	90.00
2006	0.07	0.65	0.30	7.00	0.15	20.00	0.05	45.00	0.05	90.00
2007	0.08	0.70	0.30	7.00	0.15	20.00	0.05	45.00	0.05	90.00
2008	0.06	0.65	0.30	7.00	0.15	20.00	0.05	45.00	0.05	90.00
2009	0.06	0.65	0.30	7.00	0.15	20.00	0.05	45.00	0.05	90.00
2010	0.06	0.65	0.30	7.00	0.15	20.00	0.05	45.00	0.00	0.00
2011	0.06	0.65	0.30	7.00	0.15	20.00	0.05	45.00	0.00	0.00
2012	0.06	0.65	0.30	7.00	0.15	20.00	0.05	45.00	0.00	0.00
2013	0.06	0.65	0.30	7.00	0.15	20.00	0.05	45.00	0.00	0.00

Resource Grouping - Gas - Southern Alberta - Conventional - Tertiary, Upper Cretaceous, Upper Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.10	0.15	0.30	7.00	0.10	20.00	0.08	40.00	0.05	90.00
2002	0.16	0.55	0.40	7.00	0.18	20.00	0.10	45.00	0.10	90.00
2003	0.08	0.15	0.14	15.00	0.12	30.00	0.10	55.00	0.10	90.00
2004	0.14	0.55	0.30	7.00	0.15	20.00	0.12	45.00	0.12	90.00
2005	0.07	0.25	0.30	7.00	0.20	20.00	0.15	45.00	0.12	90.00
2006	0.09	0.55	0.30	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	0.08	0.40	0.25	7.00	0.18	20.00	0.16	45.00	0.12	90.00
2008	0.08	0.30	0.35	10.00	0.25	20.00	0.30	45.00	0.12	90.00
2009	0.08	0.20	0.55	8.00	0.48	20.00	0.20	45.00	0.12	90.00
2010	0.12	0.75	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	0.11	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	0.11	0.60	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	0.11	0.60	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Southern Alberta - Conventional - Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.49	0.45	0.45	7.00	0.40	20.00	0.16	45.00	0.10	90.00
2002	0.44	0.55	0.45	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2003	0.24	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2004	0.25	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2005	0.19	0.35	0.55	10.00	0.22	20.00	0.16	45.00	0.12	90.00
2006	0.16	0.65	0.52	7.00	0.25	30.00	0.16	50.00	0.12	90.00
2007	0.12	0.35	0.50	10.00	0.30	20.00	0.14	45.00	0.12	90.00
2008	0.10	0.35	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.13	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	0.16	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.15	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.15	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.15	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Southern Alberta - Conventional - Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.60	0.90	0.60	12.00	0.35	20.00	0.19	45.00	0.12	98.00
2002	0.60	0.70	0.65	15.00	0.40	25.00	0.20	41.00	0.12	87.00
2003	0.34	0.20	0.70	7.00	0.40	12.00	0.41	25.00	0.30	60.00
2004	0.37	0.62	0.80	7.00	0.42	11.00	0.60	18.00	0.25	24.00
2005	0.34	0.60	0.61	7.00	0.35	18.00	0.95	23.00	0.25	30.00
2006	0.25	0.65	0.60	7.00	0.20	26.00	1.10	35.00	0.50	46.00
2007	0.30	0.62	0.52	10.00	1.90	25.00	1.80	30.00	0.12	35.00
2008	0.35	0.40	0.30	10.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	0.27	0.65	0.40	7.00	0.27	20.00	0.16	45.00	0.12	90.00
2010	0.25	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	0.25	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	0.24	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	0.23	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Southern Alberta - Tight - Upper Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.09	0.80	0.20	9.00	0.21	22.00	0.11	40.00	0.12	98.00
2002	0.09	0.80	0.40	7.00	0.18	20.00	0.14	44.00	0.12	86.00
2003	0.08	0.65	0.38	7.00	0.22	16.00	0.18	30.00	0.12	73.00
2004	0.09	0.65	0.45	7.00	0.17	20.00	0.20	45.00	0.12	62.00
2005	0.08	0.90	0.25	7.00	0.25	20.00	0.16	50.00	0.12	70.00
2006	0.09	0.90	0.38	7.00	0.25	18.00	0.16	38.00	0.12	42.00
2007	0.08	0.80	0.40	7.00	0.22	18.00	1.80	25.00	0.12	31.00
2008	0.08	0.80	0.40	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2009	0.08	0.75	0.95	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	0.10	0.95	0.75	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	0.10	0.83	0.60	7.00	0.27	20.00	0.16	45.00	0.12	90.00
2012	0.10	0.83	0.60	7.00	0.27	20.00	0.16	45.00	0.12	90.00
2013	0.10	0.83	0.60	7.00	0.27	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Southwest Alberta - Conventional - Tertiary, Upper Cretaceous, Upper Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.26	0.75	0.32	9.00	0.30	21.00	0.19	50.00	0.12	90.00
2002	0.27	0.83	0.52	10.00	0.30	18.00	0.14	42.00	0.99	83.00
2003	0.19	0.90	0.40	7.00	0.22	20.00	0.16	45.00	0.99	68.00
2004	0.21	0.99	0.95	5.00	0.30	15.00	0.16	45.00	0.12	90.00
2005	0.17	1.20	0.40	8.00	0.35	20.00	0.16	45.00	0.12	90.00
2006	0.13	0.80	0.42	11.00	0.26	20.00	0.16	38.00	0.12	90.00
2007	0.15	1.30	0.80	7.00	0.22	12.00	0.16	24.00	5.00	30.00
2008	0.15	0.65	0.60	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2009	0.11	0.20	0.48	7.00	0.49	20.00	0.16	45.00	0.12	90.00
2010	0.11	0.80	0.40	7.00	0.25	20.00	0.16	42.00	0.12	65.00
2011	0.11	0.80	0.40	7.00	0.25	20.00	0.16	42.00	0.12	65.00
2012	0.11	0.80	0.40	7.00	0.25	20.00	0.16	42.00	0.12	65.00
2013	0.11	0.80	0.40	7.00	0.25	20.00	0.16	42.00	0.12	65.00

Resource Grouping - Gas - Southwest Alberta - Conventional - Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.46	0.90	0.75	15.00	0.40	22.00	0.23	32.00	0.12	90.00
2002	0.33	1.20	0.40	7.00	0.35	20.00	0.15	45.00	0.12	84.00
2003	0.30	0.42	0.40	17.00	0.35	30.00	0.40	46.00	0.12	80.00
2004	0.20	0.50	0.95	15.00	0.85	21.00	0.28	31.00	0.12	48.00
2005	0.11	0.80	0.60	10.00	0.20	20.00	0.16	40.00	0.12	50.00
2006	0.23	1.00	0.90	7.00	0.70	16.00	0.22	21.00	0.12	35.00
2007	0.24	1.80	0.95	7.00	0.90	20.00	0.80	30.00	0.12	40.00
2008	0.28	0.65	0.95	7.00	0.45	20.00	0.16	45.00	0.12	90.00
2009	0.30	0.80	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.07	0.65	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.11	0.70	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.16	0.75	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.22	0.80	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Southwest Alberta - Conventional - Middle Mannville, Lower Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.65	0.65	0.39	7.00	0.58	18.00	0.23	45.00	0.10	90.00
2002	0.77	1.20	0.30	7.00	0.45	30.00	0.25	45.00	0.15	90.00
2003	0.65	0.01	0.92	16.00	0.05	22.00	0.30	25.00	0.12	90.00
2004	0.46	0.65	0.60	7.00	0.40	22.00	0.05	30.00	0.12	60.00
2005	0.66	1.15	0.48	9.00	0.40	22.00	0.16	48.00	0.12	70.00
2006	0.47	0.98	0.40	12.00	0.90	30.00	0.30	45.00	0.12	90.00
2007	0.47	0.60	0.42	7.00	0.90	17.00	0.16	60.00	0.12	80.00
2008	0.43	0.25	0.20	15.00	0.30	30.00	0.16	45.00	0.12	90.00
2009	0.48	0.45	0.40	7.00	0.55	20.00	0.16	45.00	0.12	90.00
2010	0.97	0.75	0.65	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	0.92	0.65	0.58	7.00	0.30	25.00	0.16	45.00	0.12	90.00
2012	0.86	0.60	0.51	7.00	0.30	25.00	0.16	45.00	0.12	90.00
2013	0.81	0.55	0.44	7.00	0.30	25.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Southwest Alberta - Conventional - Jurassic, Mississippian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.15	0.95	0.20	12.00	0.15	25.00	0.16	45.00	0.12	90.00
2002	0.99	0.65	0.95	7.00	0.22	12.00	0.30	45.00	0.90	90.00
2003	0.65	0.40	0.41	7.00	0.25	20.00	0.08	43.00	1.50	71.00
2004	0.34	0.30	0.35	7.00	0.22	20.00	0.12	45.00	1.80	60.00
2005	0.51	0.65	0.60	7.00	0.21	20.00	1.30	51.00	8.00	58.00
2006	0.28	1.20	1.50	7.00	0.28	15.00	0.95	45.00	0.95	90.00
2007	0.34	1.15	0.30	10.00	1.20	25.00	2.00	32.00	0.12	90.00
2008	0.71	0.50	0.35	7.00	0.22	20.00	0.19	45.00	0.12	90.00
2009	0.13	0.70	0.55	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.00	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	0.11	0.70	0.45	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	0.11	0.70	0.45	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	0.11	0.70	0.45	7.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Southwest Alberta - Conventional - Upper Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.91	1.40	0.40	7.00	0.20	20.00	0.15	45.00	0.10	90.00
2002	1.69	2.30	0.45	4.00	0.15	28.00	0.16	500.00	0.12	90.00
2003	2.03	0.65	0.60	7.00	0.10	17.00	0.55	25.00	0.20	32.00
2004	1.18	0.65	0.20	7.00	0.15	20.00	0.10	45.00	0.12	90.00
2005	0.10	0.18	0.20	10.00	0.15	16.00	0.16	40.00	0.12	90.00
2006	0.54	0.67	0.70	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2008	0.26	1.25	0.80	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2009	0.27	0.70	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	0.27	0.70	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.27	0.70	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.27	0.70	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.27	0.70	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Southwest Alberta - Tight - Upper Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.21	0.65	0.90	7.00	0.45	20.00	0.18	30.00	1.60	96.00
2002	0.18	0.65	0.40	7.00	0.70	30.00	0.12	45.00	3.00	87.00
2003	0.15	0.85	0.98	7.00	0.12	20.00	0.10	45.00	3.00	75.00
2004	0.16	0.85	0.58	7.00	0.75	20.00	0.14	37.00	3.50	61.00
2005	0.13	2.50	0.80	4.00	0.40	10.00	0.16	45.00	0.12	90.00
2006	0.07	1.30	0.50	7.00	0.20	16.00	0.38	22.00	0.12	90.00
2007	0.14	1.30	0.85	7.00	0.48	13.00	2.20	30.00	0.12	90.00
2008	0.06	0.99	0.75	7.00	0.50	20.00	0.16	45.00	0.12	90.00
2009	0.16	1.45	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.14	1.20	0.75	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2011	0.13	1.20	0.75	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2012	0.12	1.20	0.75	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2013	0.11	1.20	0.75	7.00	0.40	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Southwest Alberta - Tight - Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.31	1.30	0.78	5.00	1.20	8.00	0.30	10.00	0.20	90.00
2002	0.25	1.60	0.40	7.00	0.22	20.00	0.41	32.00	0.27	41.00
2003	0.22	0.65	0.23	7.00	0.26	20.00	0.12	40.00	0.75	62.00
2004	0.34	0.90	0.70	7.00	0.50	14.00	0.48	30.00	0.30	90.00
2005	0.24	1.20	1.00	7.00	0.25	16.00	0.20	500.00	0.10	90.00
2006	0.13	2.40	0.60	6.00	0.50	20.00	0.40	45.00	0.30	90.00
2007	0.41	0.30	1.00	15.00	1.50	22.00	1.70	35.00	0.12	90.00
2008	0.03	0.85	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	0.19	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	0.22	0.70	0.50	7.00	0.22	20.00	0.16	45.00	0.00	0.00
2011	0.22	0.70	0.50	7.00	0.22	20.00	0.16	45.00	0.00	0.00
2012	0.22	0.70	0.50	7.00	0.22	20.00	0.16	45.00	0.00	0.00
2013	0.22	0.70	0.50	7.00	0.22	20.00	0.16	45.00	0.00	0.00

Resource Grouping - Gas - Southwest Alberta - Tight - Lower Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.75	1.10	0.34	6.00	0.30	20.00	0.25	45.00	0.20	90.00
2002	0.73	0.80	0.22	7.00	0.23	20.00	0.10	45.00	0.20	84.00
2003	0.38	0.30	0.20	7.00	0.14	20.00	0.05	45.00	0.20	75.00
2004	0.58	0.18	0.20	17.00	0.40	25.00	0.15	32.00	0.30	60.00
2005	0.80	1.60	0.37	6.00	0.40	17.00	0.30	25.00	0.30	90.00
2006	1.01	0.75	0.35	7.00	0.58	18.00	0.35	27.00	0.20	38.00
2007	0.73	0.65	0.60	7.00	0.40	17.00	0.30	28.00	0.20	40.00
2008	0.38	0.65	0.55	7.00	0.45	20.00	0.16	45.00	0.12	90.00
2009	0.38	0.95	0.80	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.31	0.95	0.50	7.00	0.30	20.00	0.20	40.00	0.14	90.00
2011	0.32	0.95	0.50	7.00	0.35	20.00	0.20	40.00	0.14	78.00
2012	0.32	0.95	0.50	7.00	0.35	20.00	0.20	40.00	0.14	90.00
2013	0.32	0.95	0.50	7.00	0.35	20.00	0.20	40.00	0.14	90.00

Resource Grouping - Gas - Southern Foothills - Conventional - Mississippian, Upper Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.97	0.65	0.50	7.00	0.22	22.00	0.16	45.00	0.12	90.00
2002	3.51	0.05	0.08	40.00	0.15	60.00	0.80	500.00	0.50	500.00
2003	2.16	0.65	0.55	7.00	0.22	20.00	0.45	50.00	0.12	500.00
2004	2.43	0.20	0.32	12.00	0.40	28.00	0.60	45.00	0.60	500.00
2005	1.84	0.55	0.40	7.00	0.28	20.00	0.30	45.00	0.12	500.00
2006	3.24	0.40	0.90	7.00	0.50	20.00	0.30	39.00	0.12	500.00
2007	0.97	0.25	0.15	7.00	0.12	20.00	0.10	45.00	0.08	90.00
2008	2.11	0.20	0.18	7.00	0.17	20.00	0.16	45.00	0.12	90.00
2009	6.70	0.70	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	4.32	0.70	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2011	4.32	0.70	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2012	4.32	0.70	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2013	4.32	0.70	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - Eastern Alberta - Conventional - Upper Cretaceous, Upper Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.15	0.65	0.55	7.00	0.16	35.00	0.20	500.00	0.50	95.00
2002	0.23	1.08	0.47	10.00	0.36	25.00	0.39	40.00	0.32	55.00
2003	0.14	0.95	0.47	10.00	0.30	28.00	0.05	58.00	3.00	72.00
2004	0.13	1.25	0.38	7.00	0.28	30.00	0.32	42.00	2.50	61.00
2005	0.10	0.80	0.30	10.00	0.28	21.00	0.40	33.00	0.80	500.00
2006	0.05	1.40	0.50	5.00	0.68	11.00	0.12	17.00	0.60	500.00
2007	0.05	0.65	0.64	7.00	0.15	15.00	2.80	24.00	0.90	500.00
2008	0.06	0.75	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.14	1.25	0.75	10.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.07	1.25	0.65	7.00	0.30	20.00	0.16	45.00	0.05	90.00
2011	0.06	1.15	0.65	7.00	0.30	20.00	0.12	45.00	0.05	90.00
2012	0.06	1.15	0.65	7.00	0.30	20.00	0.12	45.00	0.05	90.00
2013	0.06	1.15	0.65	7.00	0.30	20.00	0.12	45.00	0.05	90.00

Resource Grouping - Gas - Eastern Alberta - Conventional - Colorado, Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.38	0.80	0.71	7.00	0.29	19.00	0.20	45.00	0.12	500.00
2002	0.36	0.80	0.40	7.00	0.34	20.00	0.21	45.00	1.20	82.00
2003	0.22	0.75	0.68	7.00	0.35	14.00	0.25	27.00	0.12	90.00
2004	0.20	0.85	0.65	7.00	0.52	13.00	0.35	20.00	0.32	26.00
2005	0.19	0.80	0.70	7.00	0.30	15.00	0.20	45.00	0.12	500.00
2006	0.18	0.80	0.44	7.00	0.44	20.00	2.20	40.00	0.12	500.00
2007	0.19	0.87	0.35	14.00	1.80	24.00	0.16	500.00	0.12	90.00
2008	0.20	1.05	0.50	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2009	0.20	1.05	0.85	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.12	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2011	0.13	1.05	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2012	0.13	1.05	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2013	0.13	1.05	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - Eastern Alberta - Tight - Upper Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.09	1.20	0.30	5.00	0.21	20.00	0.10	45.00	0.12	500.00
2002	0.05	1.10	0.25	6.00	0.22	22.00	0.10	40.00	0.12	83.00
2003	0.07	0.65	0.58	7.00	0.20	18.00	0.13	30.00	0.12	75.00
2004	0.06	0.95	0.45	7.00	0.13	20.00	0.10	40.00	0.12	59.00
2005	0.06	0.80	0.45	7.00	1.10	14.00	0.16	17.00	0.12	49.00
2006	0.06	1.00	0.20	6.00	0.38	18.00	0.20	36.00	0.12	41.00
2007	0.04	1.50	0.60	6.00	0.13	15.00	0.20	25.00	0.12	500.00
2008	0.06	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	0.06	1.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.04	1.95	0.65	7.00	0.30	20.00	0.10	45.00	0.00	0.00
2011	0.04	1.55	0.60	7.00	0.30	20.00	0.10	45.00	0.00	0.00
2012	0.04	1.55	0.60	7.00	0.30	20.00	0.10	45.00	0.00	0.00
2013	0.04	1.55	0.60	7.00	0.30	20.00	0.10	45.00	0.00	0.00

Resource Grouping - Gas - Central Alberta - Conventional - Tertiary, Upper Cretaceous										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.34	0.86	0.75	7.00	0.25	16.00	0.16	45.00	0.12	97.00
2002	0.24	1.40	0.35	6.00	0.22	20.00	0.15	45.00	0.12	86.00
2003	0.19	0.68	0.52	11.00	0.30	20.00	0.13	40.00	0.12	73.00
2004	0.18	0.80	0.42	7.00	0.22	20.00	0.16	45.00	0.12	62.00
2005	0.16	1.15	0.50	6.00	0.35	15.00	0.20	30.00	0.12	50.00
2006	0.11	0.80	0.40	9.00	0.26	18.00	0.20	37.00	0.12	500.00
2007	0.15	0.65	0.42	7.00	2.60	26.00	0.20	32.00	0.12	34.00
2008	0.13	0.75	0.50	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2009	0.12	0.95	0.85	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2010	0.13	1.95	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2011	0.13	1.15	0.65	7.00	0.35	20.00	0.15	45.00	0.12	90.00
2012	0.13	1.15	0.65	7.00	0.35	20.00	0.15	45.00	0.12	90.00
2013	0.13	1.15	0.65	7.00	0.35	20.00	0.15	45.00	0.12	90.00

Resource Grouping - Gas - Central Alberta - Conventional - Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.36	0.90	0.75	7.00	0.34	20.00	0.20	45.00	0.10	90.00
2002	0.35	1.60	1.40	5.00	0.90	8.00	0.40	12.00	0.20	20.00
2003	0.15	0.60	0.52	7.00	0.28	20.00	0.12	38.00	0.10	500.00
2004	0.27	1.15	0.69	7.00	0.22	19.00	0.30	45.00	0.10	61.00
2005	0.21	1.00	0.10	13.00	0.26	20.00	0.36	28.00	0.10	43.00
2006	0.11	0.69	1.00	7.00	0.15	13.00	0.70	18.00	0.22	21.00
2007	0.15	0.90	0.80	7.00	0.33	14.00	0.20	27.00	0.10	33.00
2008	0.12	1.25	0.50	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2009	0.16	1.55	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.12	1.65	0.65	7.00	0.30	20.00	0.20	45.00	0.10	90.00
2011	0.13	1.25	0.65	7.00	0.30	20.00	0.20	50.00	0.10	90.00
2012	0.13	1.25	0.65	7.00	0.30	20.00	0.20	50.00	0.10	90.00
2013	0.13	1.25	0.65	7.00	0.30	20.00	0.20	50.00	0.10	90.00

Resource Grouping - Gas - Central Alberta - Conventional - Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.51	1.20	0.70	4.00	0.58	12.00	0.35	28.00	0.12	60.00
2002	0.46	0.68	0.42	7.00	0.42	18.00	0.22	45.00	0.12	84.00
2003	0.45	0.74	0.70	9.00	0.38	18.00	0.25	45.00	0.12	71.00
2004	0.42	0.85	0.50	7.00	0.39	20.00	0.20	61.00	0.12	500.00
2005	0.34	0.67	0.62	7.00	0.51	20.00	0.28	28.00	0.12	50.00
2006	0.33	0.55	0.55	7.00	0.46	20.00	0.20	37.00	0.12	500.00
2007	0.32	0.64	0.65	7.00	0.50	27.00	0.30	32.00	0.12	35.00
2008	0.27	0.95	0.60	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2009	0.27	0.95	0.70	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.29	1.65	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2011	0.29	0.95	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2012	0.29	0.95	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2013	0.29	0.95	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - Central Alberta - Conventional - Mississippian, Upper Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.54	1.20	0.40	7.00	0.20	20.00	0.10	500.00	0.12	90.00
2002	0.49	0.80	0.67	7.00	0.20	19.00	0.47	32.00	0.20	50.00
2003	0.82	0.85	0.40	7.00	0.08	20.00	0.70	42.00	0.10	65.00
2004	0.59	0.50	0.30	7.00	0.70	28.00	0.39	33.00	0.60	42.00
2005	0.43	0.93	0.82	7.00	0.15	18.00	0.20	50.00	0.30	65.00
2006	0.35	1.90	0.45	7.00	0.28	20.00	0.20	35.00	0.12	47.00
2007	0.36	1.10	0.55	7.00	0.30	17.00	0.50	22.00	0.80	25.00
2008	0.30	0.95	0.55	7.00	0.30	25.00	0.14	50.00	0.12	90.00
2009	0.18	0.85	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.09	0.65	0.40	7.00	0.22	20.00	0.15	45.00	0.12	90.00
2011	0.09	0.65	0.40	7.00	0.22	20.00	0.15	45.00	0.12	90.00
2012	0.09	0.65	0.40	7.00	0.22	20.00	0.15	45.00	0.12	90.00
2013	0.09	0.65	0.40	7.00	0.22	20.00	0.15	45.00	0.12	90.00

Resource Grouping - Gas - Central Alberta - Tight - Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.25	0.65	0.40	7.00	0.10	20.00	0.06	45.00	0.10	99.00
2002	0.27	1.40	0.25	6.00	0.27	13.00	0.22	32.00	0.10	45.00
2003	0.28	0.58	0.33	7.00	0.29	20.00	0.10	36.00	0.10	70.00
2004	0.33	1.20	0.52	7.00	0.19	19.00	0.12	45.00	0.10	60.00
2005	0.24	0.95	0.38	7.00	0.15	20.00	0.20	50.00	0.12	500.00
2006	0.17	0.55	0.14	7.00	0.36	20.00	0.20	30.00	0.10	40.00
2007	0.19	0.90	0.82	7.00	0.50	20.00	0.20	27.00	0.10	40.00
2008	0.13	0.75	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.15	1.05	0.85	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.31	1.25	0.65	7.00	0.30	20.00	0.12	45.00	0.05	90.00
2011	0.27	1.00	0.65	7.00	0.30	20.00	0.12	45.00	0.05	90.00
2012	0.27	1.00	0.65	7.00	0.30	20.00	0.12	45.00	0.05	90.00
2013	0.27	1.00	0.65	7.00	0.30	20.00	0.12	45.00	0.05	90.00

Resource Grouping - Gas - Central Alberta - Tight - Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.64	0.18	0.45	16.00	0.20	20.00	0.12	33.00	0.10	50.00
2002	0.61	0.80	0.90	15.00	0.45	37.00	0.12	45.00	0.10	58.00
2003	0.35	0.55	0.34	7.00	0.40	18.00	0.15	22.00	0.25	31.00
2004	0.85	1.10	0.90	7.00	0.60	15.00	0.25	21.00	0.12	62.00
2005	0.26	0.37	0.61	7.00	0.30	15.00	0.12	48.00	0.12	500.00
2006	0.37	1.20	0.31	8.00	0.35	20.00	0.10	500.00	0.12	90.00
2007	0.46	0.80	0.12	6.00	0.75	19.00	0.12	500.00	0.12	500.00
2008	0.50	0.95	0.75	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2009	0.46	1.05	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.84	1.25	0.60	7.00	0.30	20.00	0.12	45.00	0.00	0.00
2011	0.76	1.00	0.60	7.00	0.30	20.00	0.12	45.00	0.00	0.00
2012	0.76	1.00	0.60	7.00	0.30	20.00	0.12	45.00	0.00	0.00
2013	0.76	1.00	0.60	7.00	0.30	20.00	0.12	45.00	0.00	0.00

Resource Grouping - Gas - West Central Alberta - Conventional - Tertiary										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.30	0.90	0.27	9.00	0.22	30.00	0.21	45.00	1.00	500.00
2002	0.25	0.62	0.30	6.00	0.18	21.00	0.28	37.00	0.11	70.00
2003	0.23	0.70	0.32	7.00	0.28	18.00	0.23	45.00	1.10	73.00
2004	0.19	0.58	0.49	8.00	0.38	20.00	0.15	31.00	0.12	61.00
2005	0.15	0.50	0.90	7.00	0.30	12.00	0.28	20.00	0.12	40.00
2006	0.16	0.69	0.41	8.00	0.36	20.00	1.30	36.00	0.12	44.00
2007	0.16	0.65	0.40	7.00	1.00	25.00	0.45	32.00	0.12	500.00
2008	0.19	0.65	0.50	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2009	0.24	0.85	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.27	1.25	0.60	7.00	0.35	20.00	0.20	45.00	0.11	70.00
2011	0.28	0.95	0.60	7.00	0.35	20.00	0.20	45.00	0.11	70.00
2012	0.30	0.95	0.60	7.00	0.35	20.00	0.20	45.00	0.11	70.00
2013	0.32	0.95	0.60	7.00	0.35	20.00	0.20	45.00	0.11	70.00

Resource Grouping - Gas - West Central Alberta - Conventional - Upper Cretaceous, Upper Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.41	0.65	0.90	7.00	0.25	16.00	0.70	25.00	0.20	28.00
2002	0.46	0.85	0.35	12.00	0.25	20.00	0.15	45.00	1.20	500.00
2003	0.37	0.65	0.40	7.00	0.22	20.00	0.16	45.00	1.00	71.00
2004	0.41	0.65	0.48	7.00	0.35	20.00	0.05	44.00	0.90	61.00
2005	0.28	0.69	0.60	9.00	0.20	20.00	0.16	50.00	0.12	500.00
2006	0.28	0.80	0.40	8.00	0.28	21.00	0.16	39.00	0.50	60.00
2007	0.38	0.50	0.35	10.00	0.85	21.00	0.16	32.00	0.12	500.00
2008	0.40	0.80	0.55	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2009	0.33	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	0.30	1.45	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2011	0.32	0.95	0.55	7.00	0.35	20.00	0.15	45.00	0.12	90.00
2012	0.32	0.95	0.55	7.00	0.35	20.00	0.15	45.00	0.12	90.00
2013	0.32	0.95	0.55	7.00	0.35	20.00	0.15	45.00	0.12	90.00

Resource Grouping - Gas - West Central Alberta - Conventional - Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.57	0.30	0.25	7.00	0.20	24.00	0.10	45.00	0.20	110.00
2002	0.71	0.65	0.26	7.00	0.10	20.00	0.40	40.00	0.27	53.00
2003	0.55	0.80	0.65	15.00	0.90	20.00	0.16	23.00	1.30	80.00
2004	0.58	1.10	0.40	6.00	0.52	19.00	0.35	28.00	0.40	62.00
2005	0.48	0.60	0.68	7.00	0.36	20.00	0.17	30.00	0.70	50.00
2006	0.27	3.50	0.40	4.00	0.22	20.00	1.50	40.00	0.12	500.00
2007	0.48	2.00	0.30	7.00	1.30	22.00	0.16	500.00	0.12	90.00
2008	0.56	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	0.10	0.95	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.01	0.95	0.60	7.00	0.30	20.00	0.17	45.00	0.10	90.00
2011	0.02	0.95	0.50	7.00	0.30	20.00	0.17	45.00	0.10	90.00
2012	0.02	0.95	0.50	7.00	0.30	20.00	0.17	45.00	0.10	90.00
2013	0.02	0.95	0.50	7.00	0.30	20.00	0.17	45.00	0.10	90.00

Resource Grouping - Gas - West Central Alberta - Conventional - Lower Mannville, Jurassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.78	0.65	0.35	10.00	0.30	22.00	0.12	45.00	0.12	97.00
2002	1.13	0.65	0.45	7.00	0.35	22.00	0.16	35.00	0.12	84.00
2003	0.71	0.80	0.35	7.00	0.22	20.00	0.16	45.00	0.12	71.00
2004	0.50	0.65	0.45	7.00	0.22	20.00	0.16	45.00	0.12	61.00
2005	0.63	0.45	0.80	9.00	0.25	17.00	0.16	50.00	0.12	500.00
2006	0.68	1.30	0.40	7.00	0.10	28.00	0.16	37.00	0.12	500.00
2007	0.65	1.10	0.40	8.00	0.22	19.00	0.16	26.00	0.12	500.00
2008	0.60	0.85	0.50	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2009	0.70	0.65	0.45	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	1.52	1.95	0.95	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2011	0.94	1.15	0.45	7.00	0.22	20.00	0.16	65.00	0.12	90.00
2012	0.94	1.15	0.45	7.00	0.22	20.00	0.16	65.00	0.12	90.00
2013	0.94	1.15	0.45	7.00	0.22	20.00	0.16	65.00	0.12	90.00

Resource Grouping - Gas - West Central Alberta - Conventional - Mississippian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.51	0.40	0.35	7.00	0.89	28.00	0.20	35.00	0.12	98.00
2002	2.16	0.45	0.65	8.00	0.52	20.00	0.80	37.00	0.12	47.00
2003	0.65	0.55	0.30	9.00	0.45	25.00	0.15	46.00	0.12	74.00
2004	0.67	0.89	0.35	10.00	0.11	30.00	0.20	61.00	0.12	500.00
2005	0.86	0.15	0.35	7.00	0.58	26.00	0.35	36.00	0.12	52.00
2006	0.90	0.68	0.62	7.00	0.32	20.00	0.20	37.00	0.12	500.00
2007	0.54	0.35	0.13	15.00	1.25	24.00	0.45	40.00	0.12	60.00
2008	0.36	1.25	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2009	0.75	0.95	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	1.09	1.95	0.75	7.00	0.35	20.00	0.15	45.00	0.12	90.00
2011	1.08	1.35	0.70	7.00	0.35	20.00	0.15	45.00	0.12	90.00
2012	1.08	1.35	0.70	7.00	0.35	20.00	0.15	45.00	0.12	90.00
2013	1.08	1.35	0.70	7.00	0.35	20.00	0.15	45.00	0.12	90.00

Resource Grouping - Gas - West Central Alberta - Conventional - Upper Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	3.24	0.25	0.20	7.00	0.33	60.00	0.80	93.00	0.12	106.00
2002	1.30	0.45	0.25	7.00	2.50	35.00	0.19	39.00	0.12	500.00
2003	1.06	0.20	0.08	7.00	0.22	25.00	0.20	45.00	0.12	500.00
2004	1.73	0.10	0.12	16.00	0.12	30.00	0.25	45.00	0.12	500.00
2005	1.15	0.35	0.10	10.00	1.00	48.00	0.30	58.00	0.12	500.00
2006	0.49	0.45	0.62	7.00	0.58	20.00	0.20	27.00	0.12	500.00
2007	1.73	0.15	0.26	7.00	0.55	22.00	0.20	31.00	0.12	500.00
2008	2.37	4.95	1.25	7.00	0.65	20.00	0.20	45.00	0.12	90.00
2009	1.06	1.55	1.25	9.00	0.45	20.00	0.16	45.00	0.12	90.00
2010	0.73	1.85	0.85	7.00	0.40	20.00	0.20	45.00	0.10	90.00
2011	0.67	1.85	0.85	7.00	0.40	20.00	0.20	45.00	0.10	90.00
2012	0.62	1.85	0.85	7.00	0.40	20.00	0.20	45.00	0.10	90.00
2013	0.56	1.85	0.85	7.00	0.40	20.00	0.20	45.00	0.10	90.00

Resource Grouping - Gas - West Central Alberta - Tight - Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.70	0.20	0.35	7.00	1.30	32.00	0.10	38.00	0.12	96.00
2002	0.36	2.00	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2003	0.46	1.10	0.42	7.00	0.35	20.00	0.20	45.00	0.10	70.00
2004	0.49	0.10	0.20	20.00	0.18	30.00	0.17	45.00	0.15	65.00
2005	0.49	1.00	0.62	7.00	0.25	15.00	0.10	28.00	0.12	50.00
2006	0.66	0.65	0.35	7.00	0.25	20.00	0.16	38.00	0.12	500.00
2007	0.34	0.45	0.55	7.00	0.35	16.00	0.16	24.00	0.12	32.00
2008	1.09	0.65	0.50	7.00	0.30	25.00	0.16	45.00	0.12	90.00
2009	0.46	1.45	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.52	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.10	90.00
2011	0.52	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.10	90.00
2012	0.52	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.10	90.00
2013	0.52	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.10	90.00

Resource Grouping - Gas - West Central Alberta - Tight - Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.77	0.75	0.50	7.00	0.20	20.00	0.19	45.00	0.12	97.00
2002	0.87	0.75	0.45	7.00	0.23	20.00	0.16	500.00	0.12	90.00
2003	0.52	0.55	0.44	7.00	0.30	20.00	0.16	30.00	0.12	75.00
2004	0.52	0.63	0.30	7.00	0.25	20.00	0.16	45.00	0.12	62.00
2005	0.49	0.55	0.40	7.00	0.25	20.00	0.16	50.00	0.12	500.00
2006	0.55	0.75	0.60	7.00	0.22	15.00	0.16	38.00	0.12	500.00
2007	0.45	0.85	0.58	7.00	0.13	13.00	0.16	24.00	0.12	500.00
2008	0.55	0.75	0.50	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2009	0.68	0.75	0.65	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2010	1.05	1.95	0.95	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2011	1.05	1.90	0.85	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2012	1.05	1.90	0.85	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2013	1.05	1.90	0.85	7.00	0.45	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - Central Foothills - Conventional - Upper Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	2.70	0.40	0.20	12.00	0.15	45.00	0.10	78.00	0.20	98.00
2002	3.97	0.85	0.10	11.00	0.30	20.00	0.20	45.00	0.40	86.00
2003	1.13	0.65	0.40	7.00	0.22	25.00	0.12	45.00	0.20	73.00
2004	1.51	0.50	0.30	7.00	0.22	20.00	0.50	60.00	0.25	70.00
2005	0.67	0.25	0.30	10.00	0.20	36.00	0.55	43.00	0.25	55.00
2006	0.74	0.65	0.45	7.00	0.20	18.00	0.55	36.00	0.20	60.00
2007	0.58	1.30	0.30	8.00	0.60	25.00	0.16	500.00	0.12	90.00
2008	1.51	1.25	0.35	6.00	0.20	20.00	0.16	45.00	0.12	90.00
2009	1.53	1.85	0.85	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2010	0.78	1.65	0.85	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2011	0.78	1.65	0.80	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2012	0.78	1.65	0.80	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2013	0.78	1.65	0.80	7.00	0.30	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - Central Foothills - Conventional - Colorado, Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.19	0.55	0.40	7.00	0.32	20.00	0.17	45.00	0.25	98.00
2002	3.14	0.60	0.73	8.00	0.32	14.00	0.16	45.00	0.25	83.00
2003	2.16	0.80	0.44	7.00	0.27	15.00	0.16	45.00	0.12	70.00
2004	1.62	0.30	0.49	7.00	0.18	26.00	0.22	45.00	0.25	60.00
2005	1.09	0.40	0.32	7.00	0.21	20.00	0.35	48.00	0.12	500.00
2006	1.23	0.27	0.59	17.00	0.22	28.00	0.70	32.00	0.25	500.00
2007	1.45	1.10	0.90	7.00	0.32	15.00	0.20	25.00	0.12	500.00
2008	2.37	0.95	0.65	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2009	1.32	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	1.55	1.05	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.57	1.05	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	1.57	1.05	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	1.57	1.05	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Central Foothills - Conventional - Jurassic, Triassic, Permian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	3.13	0.27	0.25	32.00	0.22	43.00	0.20	72.00	0.18	500.00
2002	1.22	0.20	0.20	23.00	0.10	45.00	0.15	80.00	0.12	500.00
2003	5.13	0.35	0.45	7.00	0.08	26.00	0.25	58.00	0.25	72.00
2004	3.78	0.25	0.30	7.00	0.28	20.00	0.16	45.00	0.25	60.00
2005	5.40	0.30	1.20	6.00	0.50	14.00	0.35	25.00	0.80	49.00
2006	4.95	0.45	0.35	7.00	0.50	20.00	0.16	500.00	0.12	90.00
2007	6.80	0.75	0.55	7.00	0.22	20.00	1.30	24.00	0.12	500.00
2008	3.73	0.90	0.65	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2009	2.45	0.65	0.45	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.16	0.70	0.55	7.00	0.30	20.00	0.18	40.00	0.12	85.00
2011	2.16	0.70	0.55	7.00	0.30	20.00	0.18	40.00	0.12	85.00
2012	2.16	0.70	0.55	7.00	0.30	20.00	0.18	40.00	0.12	85.00
2013	2.16	0.70	0.55	7.00	0.30	20.00	0.18	40.00	0.12	85.00

Resource Grouping - Gas - Central Foothills - Conventional - Mississippian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	4.84	0.65	0.35	7.00	0.15	20.00	0.13	45.00	0.70	97.00
2002	5.13	0.25	0.45	7.00	0.15	16.00	0.10	45.00	0.10	86.00
2003	4.59	0.50	0.20	7.00	0.12	20.00	0.30	70.00	0.15	100.00
2004	3.51	0.65	0.20	7.00	0.12	40.00	0.30	60.00	0.15	80.00
2005	2.05	0.65	0.18	9.00	0.18	50.00	0.35	51.00	0.20	70.00
2006	2.43	0.55	0.22	7.00	0.38	22.00	0.30	52.00	0.15	70.00
2007	3.62	0.49	0.30	18.00	0.70	25.00	0.16	500.00	0.12	90.00
2008	4.58	0.75	0.40	7.00	0.30	25.00	0.16	45.00	0.12	90.00
2009	3.56	0.65	0.50	10.00	0.30	25.00	0.16	45.00	0.12	90.00
2010	3.24	0.70	0.45	9.00	0.30	25.00	0.16	45.00	0.12	80.00
2011	3.24	0.70	0.45	9.00	0.30	25.00	0.16	45.00	0.12	80.00
2012	3.24	0.70	0.45	9.00	0.30	25.00	0.16	45.00	0.12	80.00
2013	3.24	0.70	0.45	9.00	0.30	25.00	0.16	45.00	0.12	80.00

Resource Grouping - Gas - Central Foothills - Conventional - Upper Devonian, Middle Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	4.86	0.28	0.15	20.00	0.50	40.00	0.25	55.00	0.12	500.00
2002	6.80	0.05	0.30	28.00	0.10	50.00	1.00	500.00	0.25	500.00
2003	3.08	0.15	0.60	14.00	0.12	19.00	0.80	75.00	0.25	85.00
2004	1.68	0.25	0.22	20.00	0.10	45.00	0.60	65.00	0.15	74.00
2005	14.04	0.20	0.15	20.00	0.70	45.00	0.45	62.00	0.25	500.00
2006	4.64	0.25	0.30	7.00	0.22	20.00	1.00	35.00	0.40	40.00
2007	2.38	0.25	1.80	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	1.78	0.75	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	1.39	0.85	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	1.40	0.80	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.30	0.80	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	1.19	0.80	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	1.08	0.80	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Central Foothills - Tight - Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2003	0.81	1.20	0.95	7.00	0.55	20.00	0.35	45.00	0.12	90.00
2004	0.99	0.15	0.70	40.00	0.15	45.00	0.95	62.00	0.25	72.00
2005	2.28	0.70	0.18	25.00	1.00	52.00	0.25	65.00	0.90	500.00
2006	0.27	0.90	0.10	5.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	1.59	1.20	0.40	9.00	0.90	30.00	0.25	40.00	0.12	500.00
2008	0.81	0.48	0.38	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	1.04	0.85	0.60	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2010	1.04	0.60	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.04	0.60	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	1.04	0.60	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	1.04	0.60	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Central Foothills - Tight - Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2002	2.05	1.20	0.80	7.00	0.60	500.00	0.16	500.00	0.12	500.00
2003	1.47	2.95	0.65	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2004	0.49	1.20	0.65	7.00	0.35	20.00	0.55	500.00	0.12	90.00
2005	4.05	1.50	0.85	7.00	0.55	20.00	0.16	500.00	0.12	90.00
2006	0.76	1.80	0.45	7.00	0.20	20.00	0.16	500.00	0.12	90.00
2007	0.15	0.75	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	0.15	1.00	0.65	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	0.15	1.00	0.65	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	0.15	1.00	0.65	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.15	1.00	0.65	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.15	1.00	0.65	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	1.40	0.80	0.60	7.00	0.40	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Central Foothills - Tight - Jurassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2008	4.07	0.65	0.40	7.00	0.30	25.00	0.16	45.00	0.12	90.00
2009	2.73	0.75	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	2.05	0.75	0.50	7.00	0.30	22.00	0.16	45.00	0.12	90.00
2011	1.73	0.75	0.50	7.00	0.30	22.00	0.16	45.00	0.12	90.00
2012	1.40	0.75	0.50	7.00	0.30	22.00	0.16	45.00	0.12	90.00
2013	1.40	0.75	0.50	7.00	0.30	22.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Kaybob - Conventional - Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.65	1.20	0.55	6.00	0.50	20.00	0.13	45.00	0.12	90.00
2002	0.56	0.95	0.57	7.00	0.35	20.00	0.16	45.00	0.25	85.00
2003	0.90	1.90	1.20	7.00	0.45	12.00	0.16	45.00	0.12	90.00
2004	0.84	1.60	0.80	7.00	0.20	20.00	0.65	500.00	0.50	90.00
2005	0.63	0.95	0.85	7.00	0.25	20.00	0.20	45.00	0.12	500.00
2006	0.58	1.30	0.60	7.00	0.22	12.00	0.16	45.00	0.12	90.00
2007	0.63	1.00	0.70	7.00	0.20	12.00	0.75	26.00	0.25	40.00
2008	0.58	0.95	0.60	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2009	1.00	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.93	0.85	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.90	0.85	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.86	0.85	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.83	0.85	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Kaybob - Conventional - Mannville, Jurassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.81	0.70	0.60	7.00	0.28	20.00	0.25	80.00	0.25	500.00
2002	0.82	0.90	0.80	7.00	0.22	20.00	0.19	45.00	0.12	500.00
2003	0.78	0.90	0.32	11.00	0.25	38.00	0.20	45.00	0.12	500.00
2004	0.67	0.75	0.40	7.00	0.15	45.00	0.25	60.00	0.12	500.00
2005	0.83	1.05	0.85	7.00	0.25	17.00	0.25	50.00	0.12	500.00
2006	0.83	0.95	0.53	7.00	0.45	25.00	0.30	38.00	0.12	500.00
2007	0.86	0.27	0.75	11.00	0.70	25.00	0.20	45.00	0.12	500.00
2008	1.08	1.25	0.65	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2009	1.24	0.65	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	1.57	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.86	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	2.24	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	2.70	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Kaybob - Conventional - Triassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.97	0.65	0.40	7.00	0.35	20.00	0.10	57.00	0.15	100.00
2002	1.44	0.45	0.38	7.00	0.22	40.00	0.22	86.00	0.12	500.00
2003	1.24	0.50	0.62	7.00	0.18	20.00	0.25	72.00	0.12	500.00
2004	1.20	1.10	0.62	8.00	0.22	20.00	0.25	65.00	0.12	500.00
2005	1.14	0.65	0.50	7.00	0.22	20.00	0.25	45.00	0.12	500.00
2006	0.99	1.30	0.75	7.00	0.30	14.00	0.25	40.00	0.12	500.00
2007	0.86	0.60	0.20	19.00	0.45	25.00	0.16	500.00	0.12	90.00
2008	0.74	0.65	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2009	1.17	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	0.42	0.75	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.42	0.75	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.42	0.75	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.42	0.75	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Kaybob - Conventional - Upper Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2002	0.81	0.70	1.00	7.00	0.25	20.00	0.45	500.00	5.00	500.00
2003	1.03	0.50	0.30	20.00	0.22	30.00	0.10	45.00	0.12	500.00
2004	2.25	0.30	0.80	7.00	0.12	13.00	0.08	45.00	0.12	500.00
2005	0.14	1.60	0.40	12.00	0.22	20.00	0.16	45.00	0.12	90.00
2006	1.25	0.65	0.85	7.00	0.45	20.00	0.25	45.00	0.12	500.00
2007	0.86	0.75	0.38	7.00	0.22	20.00	0.20	45.00	0.12	500.00
2008	0.77	1.05	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.83	0.65	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	1.35	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	1.67	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	2.21	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	2.92	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Kaybob - Tight - Colorado, Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.68	1.05	0.75	7.00	0.20	15.00	0.16	45.00	0.12	500.00
2002	0.78	1.20	0.40	7.00	0.22	20.00	0.14	45.00	0.25	85.00
2003	0.69	0.26	0.45	10.00	0.16	40.00	0.25	72.00	0.12	500.00
2004	0.68	0.70	0.40	7.00	0.22	20.00	0.14	45.00	0.25	65.00
2005	0.77	0.95	0.60	7.00	0.35	18.00	0.25	30.00	0.12	500.00
2006	0.74	0.95	0.55	7.00	0.22	20.00	0.25	39.00	0.12	500.00
2007	0.62	1.10	0.30	10.00	0.75	22.00	0.20	45.00	0.12	500.00
2008	0.68	0.95	0.60	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2009	1.26	1.25	0.75	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2010	1.27	1.25	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2011	1.28	1.25	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2012	1.29	1.25	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2013	1.30	1.25	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Kaybob - Tight - Triassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.87	0.75	0.45	7.00	0.34	20.00	0.20	45.00	0.12	90.00
2002	1.04	0.95	0.65	7.00	0.37	20.00	0.12	45.00	0.12	90.00
2003	1.07	0.75	0.55	7.00	0.28	20.00	0.16	45.00	0.12	90.00
2004	1.01	0.95	0.65	7.00	0.30	20.00	0.18	45.00	0.12	90.00
2005	1.10	1.15	0.50	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2006	0.68	0.95	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	0.71	0.65	0.55	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2008	0.87	1.25	0.80	7.00	0.40	25.00	0.20	45.00	0.12	90.00
2009	1.15	1.05	0.75	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2010	2.49	1.65	0.65	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2011	2.81	1.25	0.65	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2012	3.13	1.25	0.65	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2013	3.46	1.25	0.65	7.00	0.30	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Cretaceous										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.13	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2002	0.76	1.05	0.55	7.00	0.18	16.00	0.14	45.00	0.25	87.00
2003	0.72	1.00	0.65	7.00	0.17	20.00	0.15	45.00	0.25	75.00
2004	0.51	0.45	0.65	10.00	0.25	20.00	0.16	45.00	0.15	70.00
2005	0.48	0.65	0.40	7.00	0.24	20.00	0.25	47.00	0.12	500.00
2006	0.35	0.55	0.40	7.00	0.15	16.00	0.16	45.00	0.12	90.00
2007	0.39	1.30	0.25	10.00	0.30	18.00	0.16	500.00	0.12	90.00
2008	0.55	0.75	0.47	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	0.46	0.80	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	0.61	1.25	0.65	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.63	1.25	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.66	1.25	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.69	1.25	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.06	0.95	0.65	7.00	0.23	14.00	0.16	45.00	0.12	90.00
2002	0.93	0.95	0.60	7.00	0.16	16.00	0.14	45.00	0.25	85.00
2003	0.49	1.10	0.20	8.00	0.22	20.00	0.16	45.00	0.25	73.00
2004	0.54	0.70	0.55	7.00	0.21	20.00	0.20	62.00	0.12	500.00
2005	0.55	0.80	0.43	7.00	0.30	25.00	0.40	50.00	0.12	500.00
2006	0.66	1.20	0.30	7.00	0.28	20.00	0.20	40.00	0.12	500.00
2007	0.78	1.20	0.40	7.00	0.25	26.00	0.16	500.00	0.12	90.00
2008	0.42	0.95	0.60	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2009	0.21	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	0.53	1.45	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.55	1.45	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.55	1.45	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.55	1.45	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Mannville, Jurassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.75	0.90	0.60	7.00	0.14	20.00	0.25	100.00	0.12	500.00
2002	0.43	0.35	0.07	20.00	0.25	85.00	0.10	120.00	0.12	500.00
2003	0.84	1.30	0.20	10.00	0.25	72.00	0.16	500.00	0.12	90.00
2004	0.70	1.20	0.65	7.00	0.22	15.00	0.25	63.00	0.12	500.00
2005	0.76	1.60	0.90	7.00	0.58	12.00	0.15	28.00	0.25	50.00
2006	0.37	0.87	0.50	7.00	0.26	22.00	0.25	40.00	0.12	500.00
2007	0.68	0.80	0.40	12.00	0.25	30.00	0.16	500.00	0.12	90.00
2008	0.88	0.75	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	0.63	1.25	0.95	7.00	0.50	20.00	0.25	45.00	0.12	90.00
2010	0.43	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.43	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.43	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.43	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Triassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.62	0.20	0.22	10.00	0.23	20.00	0.18	45.00	0.20	97.00
2002	2.03	0.35	0.40	7.00	0.22	20.00	0.16	45.00	0.15	90.00
2003	2.14	0.85	0.40	7.00	0.22	20.00	0.25	75.00	0.12	500.00
2004	1.70	0.80	0.50	7.00	0.28	20.00	0.16	38.00	0.25	62.00
2005	1.16	0.65	0.50	10.00	0.25	22.00	0.25	50.00	0.12	500.00
2006	1.04	0.55	0.35	7.00	0.65	27.00	0.25	40.00	0.12	500.00
2007	0.68	0.60	0.75	7.00	0.25	20.00	0.16	500.00	0.12	90.00
2008	0.96	1.05	0.65	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2009	1.36	1.05	0.60	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	1.40	1.05	0.65	7.00	0.30	20.00	0.18	45.00	0.12	90.00
2011	1.73	1.05	0.65	7.00	0.30	20.00	0.18	45.00	0.12	90.00
2012	2.05	1.05	0.65	7.00	0.30	20.00	0.18	45.00	0.12	90.00
2013	2.38	1.05	0.65	7.00	0.30	20.00	0.18	45.00	0.12	90.00

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	2.38	0.85	0.65	7.00	0.30	20.00	0.15	60.00	0.12	500.00
2002	4.21	0.80	0.35	15.00	0.18	20.00	0.08	45.00	0.25	90.00
2003	3.02	0.70	0.75	7.00	0.23	15.00	0.25	62.00	0.12	500.00
2004	5.40	0.65	0.18	7.00	0.20	20.00	0.25	50.00	0.12	500.00
2005	2.30	0.85	0.75	12.00	0.50	27.00	0.25	500.00	0.12	500.00
2006	0.03	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	9.72	0.12	0.40	500.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	1.55	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	4.52	0.75	0.45	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.25	1.50	0.65	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	2.25	1.50	0.65	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	2.25	1.50	0.65	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	2.25	1.50	0.65	7.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Alberta Deep Basin - Tight - Upper Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.35	0.85	0.40	7.00	0.22	20.00	0.12	45.00	0.25	95.00
2002	1.13	1.30	0.20	7.00	0.18	20.00	0.16	45.00	0.25	85.00
2003	0.67	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.25	73.00
2004	0.82	0.75	0.45	7.00	0.22	20.00	0.25	61.00	0.12	500.00
2005	0.64	0.85	0.40	9.00	0.22	20.00	0.25	50.00	0.12	500.00
2006	0.57	0.85	0.40	7.00	0.22	20.00	0.25	38.00	0.12	500.00
2007	0.63	1.10	0.60	7.00	0.22	18.00	0.25	25.00	0.12	500.00
2008	0.68	0.95	0.50	7.00	0.35	20.00	0.18	45.00	0.12	90.00
2009	0.70	0.95	0.70	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	1.30	1.25	0.70	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.64	0.70	0.43	8.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	1.67	0.70	0.43	8.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	1.71	0.70	0.43	8.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Alberta Deep Basin - Tight - Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.35	0.85	0.40	7.00	0.22	20.00	0.12	45.00	0.25	95.00
2002	1.13	1.30	0.20	7.00	0.18	20.00	0.16	45.00	0.25	85.00
2003	0.67	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.25	73.00
2004	0.82	0.75	0.45	7.00	0.22	20.00	0.25	61.00	0.12	500.00
2005	0.64	0.85	0.40	9.00	0.22	20.00	0.25	50.00	0.12	500.00
2006	0.57	0.85	0.40	7.00	0.22	20.00	0.25	38.00	0.12	500.00
2007	0.63	1.10	0.60	7.00	0.22	18.00	0.25	25.00	0.12	500.00
2008	0.68	0.95	0.50	7.00	0.35	20.00	0.18	45.00	0.12	90.00
2009	0.70	0.95	0.70	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	1.30	1.25	0.70	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.64	0.70	0.43	8.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	1.67	0.70	0.43	8.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	1.71	0.70	0.43	8.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Alberta Deep Basin - Tight - Mannville, Jurassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.34	1.60	0.65	5.00	0.27	20.00	0.12	45.00	0.25	97.00
2002	1.32	0.60	0.50	7.00	0.30	25.00	0.17	45.00	0.25	85.00
2003	1.11	0.65	0.58	7.00	0.26	20.00	0.16	45.00	0.25	73.00
2004	0.79	0.50	0.65	7.00	0.29	18.00	0.12	45.00	0.10	62.00
2005	0.66	0.65	0.60	7.00	0.25	20.00	0.10	50.00	0.12	500.00
2006	0.65	0.65	0.50	7.00	0.22	20.00	0.10	45.00	0.12	500.00
2007	0.82	0.75	0.50	7.00	0.22	25.00	0.16	45.00	0.10	90.00
2008	1.06	0.95	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	1.00	0.75	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	1.30	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.30	0.85	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	1.30	0.85	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	1.30	0.85	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Alberta Deep Basin - Tight - Triassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.99	-0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	1.65	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2003	1.37	0.85	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2004	2.20	0.85	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2005	1.17	0.85	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2006	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	0.49	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.10	90.00
2008	1.43	1.05	0.62	7.00	0.20	20.00	0.10	45.00	0.05	90.00
2009	1.19	0.65	0.40	7.00	0.12	15.00	0.15	45.00	0.10	90.00
2010	3.06	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	3.24	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	3.24	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	3.24	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Northeast Alberta - Conventional - Mannville, Upper Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.30	0.35	0.25	7.00	0.15	20.00	0.20	45.00	0.10	90.00
2002	0.30	0.25	0.28	7.00	0.20	20.00	0.19	45.00	0.15	90.00
2003	0.29	0.45	0.30	7.00	0.27	20.00	0.20	45.00	0.12	90.00
2004	0.24	0.10	0.38	7.00	0.24	20.00	0.18	45.00	0.12	90.00
2005	0.25	0.65	0.45	7.00	0.22	24.00	0.15	45.00	0.12	500.00
2006	0.19	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2007	0.22	0.65	0.43	7.00	0.22	20.00	0.16	45.00	0.15	90.00
2008	0.21	0.65	0.47	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2009	0.19	0.85	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.17	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.16	0.85	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.14	0.85	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.13	0.85	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Peace River - Conventional - Upper Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.70	0.35	2.00	12.00	0.08	20.00	0.12	500.00	0.12	90.00
2002	0.59	0.50	0.25	7.00	0.33	20.00	0.50	45.00	0.35	80.00
2003	0.92	0.35	0.50	8.00	0.50	20.00	0.30	45.00	0.25	72.00
2004	0.43	0.65	0.40	7.00	0.32	20.00	0.16	45.00	0.35	60.00
2005	0.43	0.65	0.55	7.00	0.42	20.00	0.16	38.00	0.25	50.00
2006	0.28	0.85	0.55	7.00	0.50	20.00	0.25	45.00	0.12	500.00
2007	0.42	0.85	1.20	7.00	0.15	15.00	0.25	28.00	0.12	500.00
2008	0.25	0.75	0.50	7.00	0.28	20.00	0.16	45.00	0.12	90.00
2009	0.25	0.85	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.24	0.85	0.65	7.00	0.25	20.00	0.20	45.00	0.15	90.00
2011	0.24	0.85	0.65	7.00	0.25	20.00	0.20	45.00	0.15	90.00
2012	0.24	0.85	0.65	7.00	0.25	20.00	0.20	45.00	0.15	90.00
2013	0.24	0.85	0.65	7.00	0.25	20.00	0.20	45.00	0.15	90.00

Resource Grouping - Gas - Peace River - Conventional - Colorado, Upper Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.70	0.95	0.65	7.00	0.40	20.00	0.35	45.00	0.25	90.00
2002	0.56	1.20	0.70	7.00	1.20	20.00	0.35	32.00	0.12	500.00
2003	0.55	0.40	0.40	7.00	0.75	20.00	0.25	45.00	0.12	500.00
2004	0.73	0.65	0.70	7.00	0.25	18.00	0.95	25.00	0.20	42.00
2005	0.54	0.50	0.40	7.00	0.45	20.00	0.25	45.00	0.12	500.00
2006	0.45	0.80	0.50	7.00	0.78	22.00	0.95	30.00	0.25	45.00
2007	0.59	0.37	0.85	15.00	0.25	30.00	0.20	45.00	0.12	500.00
2008	0.40	0.85	0.60	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2009	0.47	1.15	0.80	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2010	0.78	1.25	0.80	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2011	0.88	1.25	0.80	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2012	1.10	1.25	0.80	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2013	1.42	1.25	0.80	7.00	0.40	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - Peace River - Conventional - Middle Mannville, Lower Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.77	0.95	0.30	7.00	0.18	20.00	0.27	50.00	0.12	500.00
2002	1.40	1.40	0.65	9.00	0.35	20.00	0.30	45.00	0.28	87.00
2003	0.83	0.65	1.30	9.00	0.55	13.00	0.25	30.00	0.15	500.00
2004	0.59	0.05	0.90	10.00	0.65	20.00	0.35	30.00	0.25	65.00
2005	0.80	1.05	0.95	7.00	0.40	20.00	0.25	45.00	0.12	500.00
2006	0.70	1.15	0.75	7.00	0.25	16.00	1.50	36.00	0.35	40.00
2007	0.81	1.55	0.45	9.00	0.25	30.00	0.16	500.00	0.12	90.00
2008	0.55	1.15	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.60	1.15	0.75	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2010	0.45	1.25	0.75	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2011	0.44	1.25	0.75	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2012	0.39	1.25	0.75	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2013	0.36	1.25	0.75	7.00	0.40	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Peace River - Conventional - Upper Triassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.30	0.25	0.30	7.00	0.38	25.00	0.30	60.00	0.20	90.00
2002	1.84	1.80	0.85	7.00	0.25	20.00	0.16	500.00	0.12	90.00
2003	2.05	0.65	1.60	7.00	0.35	14.00	0.20	45.00	0.12	500.00
2004	0.73	0.55	0.10	17.00	0.50	35.00	0.25	58.00	0.12	500.00
2005	0.73	1.60	0.50	6.00	0.55	20.00	0.45	30.00	0.25	50.00
2006	1.19	0.70	0.65	10.00	0.55	23.00	0.25	38.00	0.12	500.00
2007	0.74	1.65	0.65	7.00	0.30	20.00	0.16	500.00	0.12	90.00
2008	0.80	0.95	0.55	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2009	0.65	1.95	0.85	7.00	0.50	20.00	0.20	45.00	0.12	90.00
2010	1.08	1.95	0.80	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2011	1.08	1.95	0.80	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2012	1.08	1.95	0.80	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2013	1.08	1.95	0.80	7.00	0.40	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - Peace River - Conventional - Lower Triassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.96	0.45	0.60	7.00	0.38	20.00	0.18	45.00	0.12	500.00
2002	1.19	0.95	0.50	7.00	0.25	16.00	0.18	45.00	0.12	500.00
2003	0.78	1.10	0.60	7.00	0.20	20.00	0.15	45.00	0.10	500.00
2004	0.97	0.70	0.70	7.00	0.15	29.00	0.12	500.00	0.12	90.00
2005	0.68	1.15	0.60	7.00	0.25	20.00	0.16	45.00	0.12	500.00
2006	0.71	1.40	0.35	7.00	0.35	20.00	0.25	36.00	0.12	500.00
2007	0.76	1.05	0.70	5.00	0.30	20.00	0.15	60.00	0.12	500.00
2008	1.33	0.75	0.65	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2009	1.80	0.95	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2010	1.89	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2011	2.21	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2012	2.54	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2013	2.86	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - Peace River - Conventional - Mississippian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.94	0.35	0.50	10.00	0.55	20.00	0.30	45.00	0.18	90.00
2002	3.60	1.80	0.20	8.00	0.85	16.00	0.45	30.00	0.16	55.00
2003	1.73	0.45	0.85	12.00	0.23	28.00	0.12	55.00	0.12	500.00
2004	0.78	0.25	0.45	8.00	0.25	20.00	0.15	50.00	0.12	500.00
2005	0.97	0.30	0.95	10.00	0.28	22.00	0.18	40.00	0.12	500.00
2006	0.67	0.90	0.75	7.00	0.25	15.00	0.16	45.00	0.12	500.00
2007	0.69	1.75	0.95	7.00	0.25	15.00	0.16	45.00	0.13	500.00
2008	1.10	0.75	0.60	7.00	0.35	25.00	0.16	45.00	0.12	90.00
2009	1.19	1.25	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.54	1.25	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2011	0.54	1.25	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2012	0.54	1.25	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2013	0.54	1.25	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Peace River - Conventional - Upper Devonian, Middle Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	2.00	0.65	0.25	9.00	0.20	20.00	0.19	45.00	0.12	500.00
2002	6.48	0.20	0.65	25.00	0.22	40.00	0.24	60.00	0.12	500.00
2003	1.57	0.75	1.20	7.00	0.85	30.00	0.22	35.00	0.12	500.00
2004	2.65	0.75	1.20	7.00	0.85	30.00	0.22	35.00	0.12	500.00
2005	2.70	0.10	0.95	10.00	0.24	28.00	0.16	500.00	0.12	90.00
2006	0.75	1.43	0.30	9.00	0.25	20.00	0.22	45.00	0.12	500.00
2007	3.15	3.00	2.50	7.00	1.50	30.00	0.35	35.00	0.12	500.00
2008	0.41	1.45	0.85	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2009	0.30	0.70	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.64	1.25	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2011	0.64	1.25	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2012	0.64	1.25	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2013	0.64	1.25	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Northwest Alberta - Conventional - Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.20	0.60	0.30	7.00	0.25	20.00	0.16	45.00	0.14	90.00
2002	0.19	0.75	0.35	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2003	0.14	0.70	0.30	9.00	0.18	20.00	0.16	45.00	0.12	90.00
2004	0.12	0.50	0.25	10.00	0.15	20.00	0.25	500.00	0.12	500.00
2005	0.10	0.05	0.40	7.00	0.22	20.00	0.16	45.00	0.12	500.00
2006	0.13	0.35	0.18	7.00	0.20	500.00	0.16	45.00	0.12	90.00
2007	0.20	0.70	0.40	8.00	0.35	20.00	0.25	45.00	0.18	60.00
2008	0.32	0.55	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2009	0.29	0.45	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2010	0.23	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2011	0.20	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2012	0.17	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2013	0.15	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - Northwest Alberta - Conventional - Mississippian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.73	0.40	0.50	7.00	0.24	20.00	0.20	45.00	0.12	500.00
2002	0.61	0.65	0.55	7.00	0.27	15.00	0.20	45.00	0.12	500.00
2003	0.27	0.85	0.30	7.00	0.15	20.00	0.05	500.00	0.05	90.00
2004	0.48	0.68	0.75	7.00	0.25	20.00	0.15	45.00	0.05	500.00
2005	0.22	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	500.00
2006	0.15	0.95	0.32	5.00	0.14	20.00	0.16	500.00	0.12	500.00
2007	0.27	0.95	0.55	7.00	0.45	20.00	0.25	45.00	0.16	90.00
2008	0.14	0.50	0.25	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2009	0.15	0.50	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2010	0.19	0.50	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2011	0.20	0.50	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2012	0.23	0.50	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2013	0.25	0.50	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Northwest Alberta - Conventional - Upper Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.75	1.05	0.50	7.00	0.70	20.00	0.25	45.00	0.12	500.00
2002	1.72	1.50	1.10	7.00	0.32	15.00	0.24	50.00	0.12	500.00
2003	1.63	0.95	0.40	10.00	0.75	25.00	0.20	45.00	0.12	500.00
2004	0.86	1.10	0.90	4.00	0.40	10.00	0.30	30.00	0.12	90.00
2005	0.76	1.25	1.10	7.00	0.70	20.00	0.30	40.00	0.12	500.00
2006	1.01	2.70	0.45	7.00	0.30	20.00	0.16	500.00	0.12	90.00
2007	0.43	1.80	0.50	7.00	0.40	20.00	0.25	40.00	0.12	500.00
2008	0.46	0.95	0.60	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2009	2.26	1.75	0.70	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.84	1.95	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2011	0.84	1.95	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2012	0.84	1.95	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2013	0.84	1.95	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Northwest Alberta - Conventional - Middle Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.98	1.20	1.15	7.00	0.65	25.00	0.30	45.00	0.12	90.00
2002	1.11	1.45	1.25	10.00	0.40	25.00	0.30	45.00	0.12	90.00
2003	1.03	0.75	0.85	7.00	0.75	20.00	0.25	40.00	0.20	60.00
2004	0.89	0.95	0.70	7.00	0.58	20.00	0.22	45.00	0.12	500.00
2005	0.89	0.90	0.75	7.00	0.85	19.00	0.25	40.00	0.12	500.00
2006	0.81	2.70	1.30	7.00	0.30	20.00	0.16	45.00	0.12	500.00
2007	0.70	1.60	1.30	7.00	0.30	20.00	0.25	45.00	0.12	500.00
2008	1.04	1.65	0.95	7.00	0.45	20.00	0.16	45.00	0.12	90.00
2009	1.10	1.55	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.53	1.95	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2011	0.54	1.95	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2012	0.54	1.95	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2013	0.54	1.95	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - BC Deep Basin - Conventional - Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2002	2.10	0.45	0.60	10.00	0.30	20.00	0.20	45.00	0.12	90.00
2003	5.50	1.95	1.45	10.00	0.60	25.00	0.25	45.00	0.12	90.00
2004	5.65	0.45	0.85	7.00	0.35	15.00	0.45	45.00	0.12	90.00
2005	4.25	0.80	0.65	7.00	0.20	18.00	0.25	35.00	0.12	500.00
2006	0.28	1.45	0.65	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	0.15	0.70	0.45	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	0.62	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.65	0.45	0.25	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2010	1.72	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	2.00	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	2.32	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	2.64	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - BC Deep Basin - Conventional - Lower Triassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2004	3.90	3.50	0.75	8.00	0.75	20.00	0.50	45.00	0.25	90.00
2005	2.45	0.15	0.25	20.00	0.18	30.00	0.60	45.00	0.25	80.00
2006	0.85	0.45	0.32	8.00	0.75	30.00	0.22	45.00	0.12	500.00
2007	1.95	0.15	0.35	7.00	0.22	20.00	0.16	45.00	0.12	500.00
2008	2.04	0.10	0.65	10.00	0.30	25.00	0.16	60.00	0.12	90.00
2009	2.27	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	3.36	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	3.40	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	3.40	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	3.40	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - BC Deep Basin - Tight - Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.46	1.85	0.30	6.00	0.20	20.00	0.25	45.00	0.12	90.00
2002	2.00	1.45	0.40	6.00	0.22	20.00	0.16	45.00	0.12	90.00
2003	2.70	1.25	0.95	7.00	0.25	15.00	0.12	45.00	0.12	90.00
2004	0.48	1.25	0.40	7.00	0.25	20.00	0.08	45.00	5.00	500.00
2005	0.52	1.65	0.25	14.00	0.18	25.00	0.15	45.00	0.10	500.00
2006	1.32	1.40	0.60	7.00	0.22	22.00	0.16	45.00	0.12	90.00
2007	1.12	0.30	0.25	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	0.96	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	1.84	2.65	1.25	7.00	0.50	20.00	0.16	45.00	0.12	90.00
2010	1.90	2.50	1.00	7.00	0.50	20.00	0.16	45.00	0.12	90.00
2011	1.90	2.50	1.00	7.00	0.50	20.00	0.16	45.00	0.12	90.00
2012	1.90	2.50	1.00	7.00	0.50	20.00	0.16	45.00	0.12	90.00
2013	1.90	2.50	1.00	7.00	0.50	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - BC Deep Basin - Tight - Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	2.70	0.85	0.70	18.00	0.30	22.00	0.16	45.00	0.12	90.00
2002	0.89	1.95	0.45	7.00	0.25	20.00	0.10	40.00	0.10	90.00
2003	1.26	1.25	0.37	7.00	0.22	20.00	0.18	45.00	0.12	500.00
2004	1.41	1.80	0.50	7.00	0.27	20.00	0.12	35.00	0.12	500.00
2005	1.43	1.80	0.60	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	1.65	1.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	1.67	1.95	0.85	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	2.88	1.25	0.60	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2009	2.67	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	3.75	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	3.75	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	3.75	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	3.75	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - BC Deep Basin - Tight - Lower Triassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2007	4.00	1.99	0.80	5.00	0.23	13.00	0.23	500.00	0.23	500.00
2008	4.00	1.99	0.80	5.00	0.23	13.00	0.23	500.00	0.23	500.00
2009	4.00	1.99	0.80	5.00	0.23	13.00	0.23	500.00	0.23	500.00
2010	4.00	1.99	0.80	5.00	0.23	13.00	0.23	500.00	0.23	500.00
2011	4.00	1.99	0.80	5.00	0.23	13.00	0.23	500.00	0.23	500.00
2012	4.00	1.99	0.80	5.00	0.23	13.00	0.23	500.00	0.23	500.00
2013	4.00	1.99	0.80	5.00	0.23	13.00	0.23	500.00	0.23	500.00

Resource Grouping - Gas - Fort St John - Conventional - Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.68	0.55	0.35	7.00	0.31	20.00	0.19	45.00	0.15	90.00
2002	0.58	1.05	0.40	7.00	0.21	20.00	0.18	45.00	0.12	90.00
2003	0.62	1.00	0.40	8.00	0.22	20.00	0.20	45.00	0.12	90.00
2004	0.43	0.65	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2005	0.34	0.45	0.55	7.00	0.30	17.00	0.16	45.00	0.12	90.00
2006	0.39	0.95	0.45	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	0.47	0.80	0.55	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	0.40	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	0.34	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.10	1.55	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2011	2.21	1.55	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2012	2.30	1.55	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2013	2.38	1.55	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Fort St John - Conventional - Triassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.68	0.75	0.35	7.00	0.25	20.00	0.12	45.00	0.12	500.00
2002	1.12	0.95	0.45	5.00	0.30	20.00	0.15	45.00	0.12	500.00
2003	0.90	1.15	0.55	7.00	0.30	20.00	0.22	45.00	0.12	500.00
2004	0.77	0.85	0.42	7.00	0.25	20.00	0.16	45.00	0.12	500.00
2005	0.69	0.90	0.42	7.00	0.27	20.00	0.16	45.00	0.12	500.00
2006	0.69	0.70	0.60	9.00	0.22	17.00	0.16	45.00	0.12	500.00
2007	0.98	0.90	0.50	7.00	0.22	20.00	0.16	45.00	0.12	500.00
2008	1.32	0.95	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	1.57	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.48	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	2.56	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	2.64	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	2.72	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Fort St John - Conventional - Permian, Mississippian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.65	0.15	0.74	7.00	0.45	25.00	0.25	45.00	0.15	60.00
2002	1.65	0.18	0.85	7.00	0.18	20.00	0.16	45.00	0.12	500.00
2003	1.95	0.30	0.15	7.00	0.45	20.00	0.35	55.00	0.16	80.00
2004	1.50	0.10	0.32	12.00	0.40	50.00	0.20	70.00	0.12	500.00
2005	1.50	1.00	0.25	10.00	0.15	20.00	0.12	45.00	0.12	500.00
2006	0.93	0.65	0.50	7.00	0.30	20.00	0.25	45.00	0.12	90.00
2007	3.20	0.15	0.20	7.00	0.15	20.00	0.12	45.00	0.15	500.00
2008	2.10	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	3.53	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.37	0.85	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	2.37	0.85	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	2.37	0.85	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	2.37	0.85	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Fort St John - Conventional - Upper Devonian, Middle Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	24.00	0.30	1.05	7.00	0.75	25.00	0.25	40.00	0.15	90.00
2002	13.00	0.25	1.30	6.00	0.85	18.00	0.55	25.00	0.25	55.00
2003	7.10	0.60	0.52	7.00	0.22	25.00	0.16	45.00	0.12	90.00
2004	1.25	0.90	0.25	7.00	0.15	20.00	0.12	500.00	0.12	90.00
2005	3.25	0.25	0.68	7.00	0.43	20.00	0.20	40.00	0.12	500.00
2006	0.88	0.90	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	1.95	0.10	0.90	8.00	0.40	25.00	0.30	45.00	0.16	90.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	4.43	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.00	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	2.00	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	2.00	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	2.00	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Fort St John - Tight - Triassic										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2007	4.00	0.64	0.14	10.00	0.14	500.00	0.14	500.00	0.14	500.00
2008	4.00	0.64	0.14	10.00	0.14	500.00	0.14	500.00	0.14	500.00
2009	4.00	0.64	0.14	10.00	0.14	500.00	0.14	500.00	0.14	500.00
2010	4.00	0.64	0.14	10.00	0.14	500.00	0.14	500.00	0.14	500.00
2011	4.00	0.64	0.14	10.00	0.14	500.00	0.14	500.00	0.14	500.00
2012	4.00	0.64	0.14	10.00	0.14	500.00	0.14	500.00	0.14	500.00
2013	4.00	0.64	0.14	10.00	0.14	500.00	0.14	500.00	0.14	500.00

Resource Grouping - Gas - Northeast BC - Conventional - Lower Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.25	0.65	0.35	7.00	0.22	20.00	0.19	45.00	0.12	90.00
2002	1.12	0.45	0.20	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2003	0.57	1.35	0.40	7.00	0.22	20.00	0.12	40.00	0.05	500.00
2004	0.18	0.55	0.10	5.00	0.05	20.00	0.05	500.00	0.05	90.00
2005	0.66	0.10	0.40	10.00	0.22	25.00	0.16	45.00	0.12	500.00
2006	0.23	0.45	0.25	7.00	0.14	20.00	0.12	500.00	0.12	90.00
2007	0.23	0.45	0.25	7.00	0.14	20.00	0.12	500.00	0.12	90.00
2008	0.41	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	0.17	0.95	0.35	4.00	0.22	20.00	0.16	45.00	0.12	500.00
2010	0.20	0.95	0.35	4.00	0.22	20.00	0.16	45.00	0.12	500.00
2011	0.20	0.95	0.35	4.00	0.22	20.00	0.16	45.00	0.12	500.00
2012	0.20	0.95	0.35	4.00	0.22	20.00	0.16	45.00	0.12	500.00
2013	0.20	0.95	0.35	4.00	0.22	20.00	0.16	45.00	0.12	500.00

Resource Grouping - Gas - Northeast BC - Conventional - Permian, Mississippian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	1.95	0.10	0.55	30.00	0.48	45.00	0.35	75.00	0.12	120.00
2002	2.11	0.25	0.24	7.00	0.30	22.00	0.32	45.00	0.12	90.00
2003	1.15	0.10	0.65	7.00	0.50	25.00	0.16	45.00	0.12	90.00
2004	2.25	0.65	0.55	20.00	0.45	35.00	0.25	45.00	0.12	90.00
2005	0.99	0.45	0.30	10.00	0.25	30.00	0.10	45.00	0.10	500.00
2006	0.54	1.35	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	0.24	0.25	0.12	7.00	0.10	20.00	0.16	500.00	0.12	90.00
2008	0.35	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	0.97	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	0.21	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	0.21	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	0.21	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	0.21	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Northeast BC - Conventional - Upper Devonian, Middle Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	3.80	0.13	0.10	30.00	0.15	45.00	0.10	80.00	0.12	500.00
2002	2.77	0.65	0.55	7.00	0.47	20.00	0.35	45.00	0.12	90.00
2003	2.19	1.25	0.45	7.00	0.30	20.00	0.16	45.00	0.12	500.00
2004	2.44	0.65	0.35	7.00	0.20	20.00	0.16	45.00	0.12	500.00
2005	1.72	0.15	0.35	7.00	0.18	15.00	0.15	45.00	0.12	500.00
2006	1.35	0.75	0.55	7.00	0.22	18.00	0.16	45.00	0.12	500.00
2007	1.06	0.20	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	0.88	1.25	0.70	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.09	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.80	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	2.80	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	2.80	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	2.80	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Northeast BC - Tight - Upper Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.98	0.95	0.50	7.00	0.23	15.00	0.16	45.00	0.12	90.00
2002	1.60	1.35	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2003	1.43	1.35	0.40	7.00	0.33	20.00	0.16	45.00	0.12	90.00
2004	1.33	1.35	0.50	7.00	0.28	20.00	0.16	45.00	0.12	90.00
2005	1.42	1.55	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	1.07	1.65	0.65	6.00	0.27	15.00	0.16	45.00	0.12	90.00
2007	1.56	1.95	0.65	6.00	0.27	20.00	0.16	45.00	0.12	90.00
2008	1.20	1.25	0.65	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2009	0.95	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.09	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	2.09	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	2.09	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	2.09	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Northeast BC - Shale - Middle Devonian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2007	6.00	1.16	0.69	13.00	0.22	25.00	0.06	37.00	0.06	500.00
2008	6.00	1.16	0.69	13.00	0.22	25.00	0.06	37.00	0.06	500.00
2009	6.00	1.16	0.69	13.00	0.22	25.00	0.06	37.00	0.06	500.00
2010	6.00	1.16	0.69	13.00	0.22	25.00	0.06	37.00	0.06	500.00
2011	6.00	1.16	0.69	13.00	0.22	25.00	0.06	37.00	0.06	500.00
2012	6.00	1.16	0.69	13.00	0.22	25.00	0.06	37.00	0.06	500.00
2013	6.00	1.16	0.69	13.00	0.22	25.00	0.06	37.00	0.06	500.00

Resource Grouping - Gas - BC Foothills - Conventional - Colorado, Mannville										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2003	1.80	0.50	0.45	15.00	0.20	20.00	0.16	45.00	0.12	90.00
2004	2.13	0.65	0.40	15.00	0.37	25.00	0.16	45.00	0.12	90.00
2005	1.19	0.65	0.60	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	0.84	0.65	0.40	9.00	0.22	25.00	0.16	45.00	0.12	90.00
2007	1.11	0.65	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2008	1.44	0.15	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	1.57	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.80	0.95	0.55	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	2.80	0.95	0.55	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	2.80	0.95	0.55	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	3.15	0.95	0.55	7.00	0.25	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - BC Foothills - Conventional - Triassic, Permian, Mississippian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	7.19	0.60	0.05	7.00	0.22	35.00	0.18	50.00	0.12	90.00
2002	2.75	0.05	0.45	5.00	0.25	25.00	0.12	45.00	0.08	90.00
2003	6.50	0.05	0.45	10.00	0.20	25.00	0.10	45.00	0.08	90.00
2004	4.70	0.30	0.40	25.00	0.22	35.00	0.16	50.00	0.12	90.00
2005	3.61	0.30	0.25	7.00	0.12	20.00	0.10	45.00	0.08	90.00
2006	4.25	0.30	0.22	7.00	0.12	20.00	0.10	45.00	0.08	90.00
2007	1.92	0.50	0.45	7.00	0.22	25.00	0.16	45.00	0.12	90.00
2008	3.05	0.15	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	3.28	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.41	0.95	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2011	2.22	0.95	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2012	2.09	0.95	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2013	1.98	0.95	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Southwest Saskatchewan - Upper Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.05	0.62	0.30	7.00	0.22	20.00	0.15	45.00	0.12	90.00
2002	0.06	0.65	0.26	7.00	0.20	20.00	0.22	45.00	0.12	90.00
2003	0.08	0.55	0.32	7.00	0.22	20.00	0.20	45.00	0.12	90.00
2004	0.07	0.80	0.25	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2005	0.09	0.90	0.40	7.00	0.27	20.00	0.16	45.00	0.12	90.00
2006	0.08	0.95	0.40	5.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	0.07	0.95	0.45	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	0.07	0.95	0.60	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2009	0.08	1.05	0.85	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.07	1.25	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.07	1.25	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.07	1.25	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.07	1.25	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - West Saskatchewan - Colorado										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.16	0.80	0.48	7.00	0.25	20.00	0.15	50.00	0.12	90.00
2002	0.14	1.80	0.40	5.00	0.35	20.00	0.25	45.00	0.12	90.00
2003	0.11	1.00	0.55	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2004	0.12	1.50	0.45	6.00	0.25	20.00	0.16	55.00	0.12	90.00
2005	0.14	2.50	0.55	5.00	0.40	18.00	0.16	45.00	0.12	90.00
2006	0.12	0.95	0.70	8.00	0.25	20.00	0.16	45.00	0.12	90.00
2007	0.10	1.00	0.55	8.00	0.22	15.00	0.16	45.00	0.12	90.00
2008	0.07	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.09	1.35	0.65	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.14	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.18	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.25	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.34	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - West Saskatchewan - Middle Mannville, Lower Mannville, Mississippian										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2001	0.33	0.85	0.60	7.00	0.35	20.00	0.45	45.00	0.15	65.00
2002	0.29	0.50	0.35	7.00	0.45	20.00	0.30	35.00	0.15	90.00
2003	0.25	0.85	0.65	7.00	0.40	20.00	0.20	45.00	0.15	90.00
2004	0.28	0.75	0.65	7.00	0.55	20.00	0.20	45.00	0.15	90.00
2005	0.24	0.95	0.65	7.00	0.50	23.00	0.20	40.00	0.15	90.00
2006	0.19	0.80	0.45	7.00	0.35	20.00	0.16	45.00	0.15	90.00
2007	0.21	0.70	0.50	8.00	0.30	20.00	0.16	45.00	0.15	90.00
2008	0.15	0.75	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.31	1.45	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.19	1.25	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.18	1.25	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.17	1.25	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.16	1.25	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00

APPENDIX B

B1 Factors for Allocation of Gas-Intent Drill Days to Resource Groupings

Historical Gas-Intent Drill Days by Area																					
Year	00 - Alberta CBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Southern Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills	08 - Kaybob	09 - Alberta Deep Basin	10 - Northeast Alberta	11 - Peace River	12 - Northwest Alberta	13 - BC Deep Basin	14 - Fort St. John	15 - Northeast BC (excl. Shale)	15 - Northeast BC (Shale)	16 - BC Foothills	17 - Southwest Saskatchewan	18 - West Saskatchewan	19 - East Saskatchewan
2001	1,120	14,530	2,610	852	3,344	4,154	6,109	7,050	2,434	13,599	105	6,027	1,449	3,459	4,751	6,852	0	1,234	2,313	229	0
2002	1,129	9,136	1,899	549	4,480	3,333	5,332	5,793	1,350	11,171	11	5,709	931	620	1,174	1,216	0	9,124	812	2,872	0
2003	2,443	17,005	2,917	448	5,289	5,009	6,660	5,991	2,231	14,227	37	4,191	1,097	2,563	2,315	4,147	0	8,514	1,108	3,627	0
2004	5,394	15,743	2,008	565	4,859	5,987	7,634	6,773	2,152	19,193	38	5,711	834	6,008	4,668	7,276	0	1,398	4,070	319	1
2005	10,834	13,983	3,134	448	6,660	9,650	9,289	5,226	2,462	22,080	48	5,010	658	6,021	2,589	4,031	0	9,965	1,892	2,644	30
2006	10,410	12,288	2,011	669	8,445	6,825	10,031	6,053	2,854	23,506	49	5,018	697	10,191	4,672	5,551	0	2,145	3,218	109	0
2007	12,547	9,835	1,269	648	4,314	3,330	6,440	3,721	2,500	14,918	1,055	1,892	449	3,046	3,550	1,988	0	2,805	6,130	619	15
2008	5,552	7,791	1,506	80	2,422	3,965	8,004	4,341	2,981	15,410	747	2,902	523	4,427	5,770	1,805	432	2,816	6,832	1,806	8
2009	4,821	2,665	316	19	449	885	3,154	1,904	2,296	8,615	202	1,478	175	2,542	3,765	796	402	1,479	797	106	0

Historical Fraction of Total Gas-Intent Drill Days by Area																					
Dr/Yr	00 - Alberta CBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Southern Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills	08 - Kaybob	09 - Alberta Deep Basin	10 - Northeast Alberta	11 - Peace River	12 - Northwest Alberta	13 - BC Deep Basin	14 - Fort St. John	15 - Northeast BC (excl. Shale)	15 - Northeast BC (Shale)	16 - BC Foothills	17 - Southwest Saskatchewan	18 - West Saskatchewan	19 - East Saskatchewan
2001	0.0136	0.1767	0.0317	0.0104	0.0407	0.0505	0.0743	0.0857	0.0296	0.1654	0.0013	0.0733	0.0176	0.0421	0.0578	0.0833	0.0000	0.0150	0.0281	0.0028	0.0000
2002	0.0169	0.1371	0.0285	0.0082	0.0672	0.0500	0.0800	0.0869	0.0203	0.1676	0.0002	0.0857	0.0140	0.0093	0.0176	0.0182	0.0000	0.1369	0.0122	0.0431	0.0000
2003	0.0272	0.1893	0.0325	0.0050	0.0589	0.0558	0.0741	0.0667	0.0248	0.1584	0.0004	0.0667	0.0122	0.0285	0.0258	0.0462	0.0000	0.0948	0.0123	0.0404	0.0000
2004	0.0536	0.1564	0.0200	0.0056	0.0483	0.0595	0.0759	0.0673	0.0214	0.1907	0.0004	0.0567	0.0083	0.0597	0.0464	0.0723	0.0000	0.0139	0.0404	0.0032	0.0000
2005	0.0907	0.1071	0.0175	0.0058	0.0736	0.0595	0.0874	0.0528	0.0249	0.2049	0.0004	0.0437	0.0061	0.0888	0.0407	0.0484	0.0000	0.0187	0.0280	0.0009	0.0000
2006	0.1548	0.1213	0.0156	0.0080	0.0532	0.0411	0.0794	0.0459	0.0308	0.1840	0.0130	0.0233	0.0055	0.0376	0.0438	0.0245	0.0000	0.0346	0.0756	0.0076	0.0002
2007	0.0693	0.0972	0.0188	0.0010	0.0302	0.0495	0.0999	0.0542	0.0372	0.1923	0.0093	0.0362	0.0065	0.0553	0.0720	0.0225	0.0054	0.0352	0.0853	0.0225	0.0001
2008	0.1308	0.0723	0.0086	0.0005	0.0122	0.0240	0.0855	0.0516	0.0623	0.2337	0.0055	0.0401	0.0048	0.0690	0.1021	0.0216	0.0109	0.0401	0.0216	0.0029	0.0000

Projected Gas-Intent Drill Days by Area - Mid-Range Case																					
Dr/Yr	00 - Alberta CBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Southern Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills	08 - Kaybob	09 - Alberta Deep Basin	10 - Northeast Alberta	11 - Peace River	12 - Northwest Alberta	13 - BC Deep Basin	14 - Fort St. John	15 - Northeast BC (excl. Shale)	15 - Northeast BC (Shale)	16 - BC Foothills	17 - Southwest Saskatchewan	18 - West Saskatchewan	19 - East Saskatchewan
2010	3,182	2,619	406	24	576	1,135	3,995	2,299	5,658	12,321	159	2,646	225	3,677	6,375	854	2,100	1,117	2,416	440	0
2011	2,485	2,300	291	18	351	580	5,808	1,459	3,830	10,375	149	2,128	172	3,410	8,313	960	2,250	1,546	1,440	251	0
2012	2,112	1,899	267	17	317	523	6,426	1,202	3,888	9,789	133	2,042	159	2,995	8,159	903	2,296	1,615	1,145	213	0
2013	1,795	1,613	239	15	278	455	7,063	1,013	3,377	9,138	115	1,925	144	2,558	7,484	725	2,520	1,622	946	213	0

Projected Fraction of Total Gas-Intent Drill Days by Area - Mid-Range Case																					
Dr/Yr	00 - Alberta CBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Southern Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills	08 - Kaybob	09 - Alberta Deep Basin	10 - Northeast Alberta	11 - Peace River	12 - Northwest Alberta	13 - BC Deep Basin	14 - Fort St. John	15 - Northeast BC (excl. Shale)	15 - Northeast BC (Shale)	16 - BC Foothills	17 - Southwest Saskatchewan	18 - West Saskatchewan	19 - East Saskatchewan
2010	0.0609	0.0501	0.0078	0.0005	0.0110	0.0217	0.0765	0.0440	0.1083	0.2359	0.0030	0.0507	0.0043	0.0704	0.1221	0.0164	0.0402	0.0214	0.0463	0.0084	0.0000
2011	0.0516	0.0478	0.0060	0.0004	0.0073	0.0121	0.1207	0.0303	0.0796	0.2156	0.0031	0.0442	0.0036	0.0709	0.1728	0.0199	0.0468	0.0321	0.0299	0.0052	0.0000
2012	0.0458	0.0412	0.0058	0.0004	0.0069	0.0114	0.1394	0.0261	0.0843	0.2123	0.0029	0.0443	0.0035	0.0650	0.1770	0.0196	0.0498	0.0350	0.0248	0.0046	0.0000
2013	0.0415	0.0373	0.0055	0.0004	0.0064	0.0105	0.1634	0.0234	0.0781	0.2113	0.0027	0.0445	0.0033	0.0592	0.1731	0.0168	0.0583	0.0375	0.0219	0.0049	0.0000

Projected Gas-Intent Drill Days by Area - High Case																					
DtYr	00 - Alberta CBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Southern Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills Alberta	08 - Keyjob	09 - Alberta Deep Basin	10 - Northeast Alberta	11 - Peace River	12 - Northwest Alberta	13 - BC Deep Basin	14 - Fort St. John	15 - Northeast BC (excl Shale)	15 - Northeast BC (Shale)	16 - BC Foothills	17 - Southwest Saskat- chewan	18 - West Saskat- chewan	19 - East Saskatchewan
2010	3,182	2,619	406	24	576	1,135	3,995	2,299	5,658	12,321	159	2,646	225	3,677	6,375	854	2,100	1,117	2,416	440	0
2011	2,631	2,900	365	23	285	664	7,884	1,962	4,295	10,880	152	3,244	219	4,894	11,177	1,199	2,465	2,598	2,096	339	0
2012	2,236	2,150	311	20	209	515	7,851	1,609	3,596	10,471	138	3,094	189	4,500	10,763	1,063	2,900	2,167	1,516	263	0
2013	1,901	1,862	289	19	178	452	8,343	1,374	3,446	10,423	134	3,040	177	4,036	10,283	1,001	3,220	2,279	1,357	267	0

Projected Fraction of Total Gas-Intent Drill Days by Area - High Case																					
DtYr	00 - Alberta CBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Southern Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills Alberta	08 - Keyjob	09 - Alberta Deep Basin	10 - Northeast Alberta	11 - Peace River	12 - Northwest Alberta	13 - BC Deep Basin	14 - Fort St. John	15 - Northeast BC (excl Shale)	15 - Northeast BC (Shale)	16 - BC Foothills	17 - Southwest Saskat- chewan	18 - West Saskat- chewan	19 - East Saskatchewan
2010	0.0609	0.0501	0.0078	0.0005	0.0110	0.0217	0.0765	0.0440	0.1083	0.2359	0.0030	0.0507	0.0043	0.0704	0.1221	0.0164	0.0402	0.0214	0.0463	0.0084	0.0000
2011	0.0436	0.0481	0.0060	0.0004	0.0047	0.0110	0.1308	0.0326	0.0713	0.1805	0.0025	0.0538	0.0036	0.0812	0.1854	0.0199	0.0409	0.0431	0.0348	0.0056	0.0000
2012	0.0402	0.0387	0.0056	0.0004	0.0038	0.0093	0.1413	0.0290	0.0647	0.1885	0.0025	0.0557	0.0034	0.0810	0.1937	0.0191	0.0522	0.0390	0.0273	0.0047	0.0000
2013	0.0351	0.0344	0.0053	0.0004	0.0033	0.0084	0.1543	0.0254	0.0637	0.1927	0.0025	0.0562	0.0033	0.0746	0.1901	0.0185	0.0595	0.0421	0.0251	0.0049	0.0000

Projected Gas-Intent Drill Days by Area - Low Case																					
DtYr	00 - Alberta CBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Southern Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills Alberta	08 - Keyjob	09 - Alberta Deep Basin	10 - Northeast Alberta	11 - Peace River	12 - Northwest Alberta	13 - BC Deep Basin	14 - Fort St. John	15 - Northeast BC (excl Shale)	15 - Northeast BC (Shale)	16 - BC Foothills	17 - Southwest Saskat- chewan	18 - West Saskat- chewan	19 - East Saskatchewan
2010	3,182	2,619	406	24	576	1,135	3,895	2,299	5,658	12,321	259	2,646	225	3,677	6,375	854	2,100	1,117	2,416	440	0
2011	1,462	1,058	201	13	124	359	6,980	1,000	1,867	7,078	91	834	123	3,613	5,477	703	1,680	1,053	536	107	0
2012	950	665	181	12	96	303	7,260	864	1,706	6,353	79	731	112	3,504	5,570	650	1,925	1,199	356	85	0
2013	427	261	165	11	52	257	7,922	714	1,595	5,768	68	524	102	3,156	5,454	505	2,200	1,342	235	94	0

Projected Fraction of Total Gas-Intent Drill Days by Area - Low Case																					
DtYr	00 - Alberta CBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Southern Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills Alberta	08 - Keyjob	09 - Alberta Deep Basin	10 - Northeast Alberta	11 - Peace River	12 - Northwest Alberta	13 - BC Deep Basin	14 - Fort St. John	15 - Northeast BC (excl Shale)	15 - Northeast BC (Shale)	16 - BC Foothills	17 - Southwest Saskat- chewan	18 - West Saskat- chewan	19 - East Saskatchewan
2010	0.0609	0.0501	0.0078	0.0005	0.0110	0.0217	0.0746	0.0440	0.1083	0.2359	0.0050	0.0507	0.0043	0.0704	0.1221	0.0164	0.0402	0.0214	0.0463	0.0084	0.0000
2011	0.0425	0.0308	0.0059	0.0004	0.0036	0.0104	0.2032	0.0291	0.0543	0.2060	0.0027	0.0243	0.0036	0.1052	0.1594	0.0205	0.0489	0.0306	0.0156	0.0031	0.0000
2012	0.0291	0.0204	0.0056	0.0004	0.0029	0.0093	0.2227	0.0265	0.0523	0.1949	0.0024	0.0224	0.0034	0.1075	0.1709	0.0199	0.0590	0.0368	0.0109	0.0026	0.0000
2013	0.0139	0.0084	0.0053	0.0004	0.0017	0.0083	0.2568	0.0231	0.0517	0.1870	0.0022	0.0170	0.0033	0.1023	0.1768	0.0164	0.0713	0.0435	0.0076	0.0031	0.0000

B2 Detailed Gas-Intent Drilling and Gas Connection Projections by Case

Mid-Range Case							
Area name	Projected Annual Number of Wells Targeted to Resource Grouping			Connection Ratio	Projected Annual Number of Connections for Resource Grouping		
	2011	2012	2013		2011	2012	2013
Gas Connections							
00 - Alberta CBM	418	355	302	1.229	513	436	371
01 - Southern Alberta	955	760	653	1.097	1,048	838	720
Tight Portion	755	577	499	1.059	799	611	528
02 - Southwest Alberta	57	52	46	1.017	58	53	47
Tight Portion	14	13	12	0.882	13	12	11
03 - Southern Foothills	1	1	1	1.000	1	1	1
04 - Eastern Alberta	119	108	94	1.035	124	112	98
Tight Portion	32	29	25	0.945	30	27	24
05 - Central Alberta	118	106	91	1.144	135	121	105
Tight Portion	16	15	15	1.200	19	19	18
06 - West Central Alberta	470	506	549	1.011	476	512	555
Tight Portion	141	158	171	1.034	146	163	176
07 - Central Foothills	27	22	18	1.290	34	27	23
Tight Portion	7	4	3	1.830	13	8	6
08 - Kaybob	161	160	146	0.942	152	151	138
Tight Portion	71	68	63	0.937	67	64	59
09 - Alberta Deep Basin	441	432	429	1.246	550	534	523
Tight Portion	364	340	316	1.293	470	440	408
10 - Northeast Alberta	51	46	40	0.702	36	32	28
11 - Peace River	139	133	126	1.114	155	150	142
Tight Portion	8	5	2	1.000	8	5	2
12 - Northwest Alberta	23	21	19	0.846	19	18	16
13 - BC Deep Basin	101	94	85	1.045	105	97	87
Montney Portion	50	58	63	1.000	50	58	63
Other Tight Portion	8	7	4	1.210	10	8	5
14 - Fort St. John	391	389	351	0.991	388	386	349
Montney Portion	200	210	214	1.000	200	210	214
15 - Northeast BC	124	128	126	1.006	125	129	127
Horn River Shale Portion	75	82	90	1.000	75	82	90
Tight Portion	43	40	31	0.948	41	38	29
16 - BC Foothills	27	28	27	0.940	25	25	24
17 - Southwest Saskatchewan	384	305	252	0.999	383	305	252
Tight Portion	384	305	252	0.999	383	305	252
18 - West Saskatchewan	25	21	20	0.871	22	18	18
19 - East Saskatchewan	0	0	0	N/A	0	0	0
Subtotal: Gas - Conventional (non-tight)	1,448	1,400	1,314		1,512	1,459	1,365
Subtotal: Gas - Tight	2,093	1,830	1,669		2,249	1,967	1,795
Subtotal: Gas - CBM	418	355	302		513	436	371
Subtotal: Gas - Shale	75	82	90		75	82	90
Gas Connections - CBM Breakdown							
AB - Main HSC	399	339	288	1.244	496	422	359
AB - Mannville CBM	9	8	6	0.903	8	7	6
AB - Other CBM	10	8	7	0.903	9	8	6
Subtotal: Gas - CBM	418	355	302		513	436	371
Total: All Gas	4,033	3,667	3,375		4,349	3,944	3,621

High Case							
Area name	Projected Annual Number of Wells Targeted to Resource Grouping			Connection Ratio	Projected Annual Number of Connections for Resource Grouping		
	2011	2012	2013		2011	2012	2013
Gas Connections							
00 - Alberta CBM	442	376	320	1.229	543	462	393
01 - Southern Alberta	1,230	875	741	1.095	1,347	964	819
Tight Portion	988	672	554	1.059	1,046	711	587
02 - Southwest Alberta	70	59	54	1.015	71	60	55
Tight Portion	18	16	15	0.882	16	14	13
03 - Southern Foothills	1	1	1	1.000	1	1	1
04 - Eastern Alberta	99	72	62	1.029	101	75	63
Tight Portion	28	21	18	0.945	26	20	17
05 - Central Alberta	136	106	94	1.146	156	121	107
Tight Portion	19	16	14	1.201	23	19	17
06 - West Central Alberta	641	626	654	1.011	648	633	662
Tight Portion	178	187	217	1.034	184	193	224
07 - Central Foothills	36	29	25	1.257	45	37	30
Tight Portion	8	6	4	1.828	14	12	7
08 - Kaybob	183	149	141	0.947	174	141	134
Tight Portion	105	79	75	0.949	100	75	72
09 - Alberta Deep Basin	490	521	578	1.236	606	632	688
Tight Portion	374	349	342	1.302	487	456	448
10 - Northeast Alberta	52	47	46	0.707	37	33	32
11 - Peace River	217	207	204	1.093	237	227	224
Tight Portion	21	14	12	1.000	21	14	12
12 - Northwest Alberta	29	25	23	0.846	24	21	20
13 - BC Deep Basin	149	143	135	1.063	158	151	140
Montney Portion	75	86	95	1.000	75	86	95
Other Tight Portion	21	19	9	1.284	26	24	11
14 - Fort St. John	546	535	531	0.986	538	528	523
Montney Portion	225	243	253	1.000	225	243	253
15 - Northeast BC	147	154	166	1.007	147	155	167
Horn River Shale Portion	85	100	115	1.000	85	100	115
Tight Portion	54	47	45	0.948	51	45	42
16 - BC Foothills	46	38	40	0.953	44	36	37
17 - Southwest Saskatchewan	558	404	361	0.999	558	404	361
Tight Portion	558	404	361	0.999	558	404	361
18 - West Saskatchewan	33	26	26	0.867	29	22	22
19 - East Saskatchewan	0	0	0	N/A	0	0	0
Subtotal: Gas - Conventional (non-tight)	1,907	1,760	1,753		1,985	1,825	1,812
Subtotal: Gas - Tight	2,671	2,159	2,014		2,852	2,316	2,158
Subtotal: Gas - CBM	442	376	320		543	462	393
Subtotal: Gas - Shale	85	100	115		85	100	115
Gas Connections - CBM Breakdown							
AB - Main HSC	422	359	305	1.244	525	447	380
AB - Mannville CBM	9	8	7	0.903	8	7	6
AB - Other CBM	11	9	8	0.903	10	8	7
Subtotal: Gas - CBM	442	376	320		543	462	393
Total: All Gas	5,105	4,394	4,201		5,465	4,702	4,478

Low Case							
Area name	Projected Annual Number of Wells Targeted to Resource Grouping			Connection Ratio	Projected Annual Number of Connections for Resource Grouping		
	2011	2012	2013		2011	2012	2013
Gas Connections							
00 - Alberta CBM	246	160	72	1.229	302	196	88
01 - Southern Alberta	476	295	78	1.097	522	327	95
Tight Portion	388	227	17	1.059	411	240	18
02 - Southwest Alberta	38	34	30	1.011	38	34	30
Tight Portion	10	9	8	0.882	9	8	7
03 - Southern Foothills	1	1	1	1.000	1	1	1
04 - Eastern Alberta	46	36	22	1.012	47	37	22
Tight Portion	20	17	15	0.945	19	16	14
05 - Central Alberta	73	62	52	1.140	83	70	60
Tight Portion	12	11	10	1.198	15	13	12
06 - West Central Alberta	598	604	634	1.019	609	615	646
Tight Portion	236	252	294	1.034	244	260	304
07 - Central Foothills	19	17	15	1.334	26	23	20
Tight Portion	6	6	5	1.838	12	11	10
08 - Kaybob	80	72	68	0.766	61	55	51
Tight Portion	38	35	33	0.935	35	33	31
09 - Alberta Deep Basin	282	261	251	1.266	357	334	322
Tight Portion	240	229	222	1.309	314	301	292
10 - Northeast Alberta	31	27	23	0.705	22	19	17
11 - Peace River	61	52	41	1.038	64	55	43
Tight Portion	11	8	2	1.000	11	8	2
12 - Northwest Alberta	16	15	14	0.846	14	12	11
13 - BC Deep Basin	105	106	98	1.051	110	111	102
Montney Portion	45	52	54	1.000	45	52	54
Other Tight Portion	17	16	13	1.137	20	18	15
14 - Fort St. John	279	280	273	0.988	276	277	269
Montney Portion	125	138	144	1.000	125	138	144
15 - Northeast BC	96	104	109	1.005	97	104	108
Horn River Shale Portion	60	70	80	1.000	60	70	80
Tight Portion	32	29	27	0.948	30	28	26
16 - BC Foothills	18	20	23	0.929	17	19	21
17 - Southwest Saskatchewan	143	95	63	0.999	143	95	63
Tight Portion	143	95	63	0.999	143	95	63
18 - West Saskatchewan	12	10	10	0.911	11	9	9
19 - East Saskatchewan	0	0	0	N/A	0	0	0
Subtotal: Gas - Conventional (non-tight)	993	896	816		1,007	905	818
Subtotal: Gas - Tight	1,322	1,124	908		1,430	1,221	992
Subtotal: Gas - CBM	246	160	72		302	196	88
Subtotal: Gas - Shale	60	70	80		60	70	80
Gas Connections - CBM Breakdown							
AB - Main HSC	235	153	69	1.244	292	190	85
AB - Mannville CBM	5	3	2	0.903	5	3	1
AB - Other CBM	6	4	2	0.903	5	3	2
Subtotal: Gas - CBM	246	160	72		302	196	88
Total: All Gas	2,621	2,250	1,876		2,799	2,392	1,978

APPENDIX C

Deliverability Details by Case

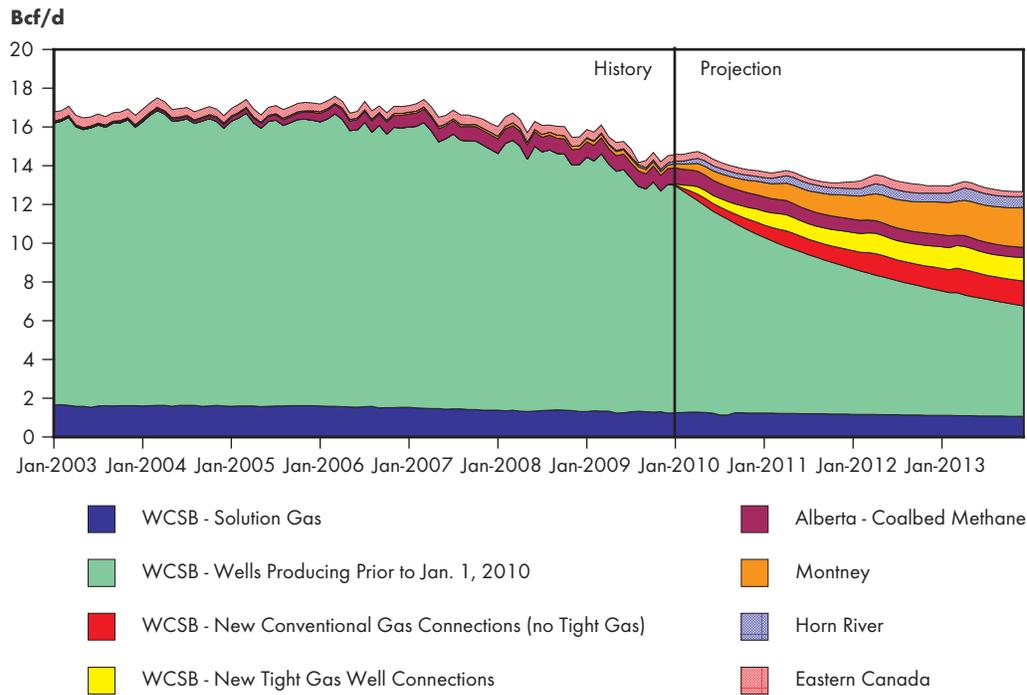
C.1 - Canadian Gas Deliverability by Area/Resource - Mid-Range Case										
Area/Resource	Historical				Projection					
	2009		2010*		2011		2012		2013	
	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d
00 - Alberta CBM	23.48	829	22.02	777	20.09	709	18.40	650	15.64	552
HSC Portion	18.83	665	17.75	627	16.46	581	15.26	539	14.17	500
Mannville Portion	3.42	121	3.11	110	2.68	95	2.33	82	0.98	35
Other CBM Portion	1.24	44	1.15	41	0.96	34	0.81	29	0.49	17
01 - Southern Alberta	43.50	1,536	37.14	1,311	31.48	1,111	28.88	1,019	26.29	928
Tight Portion	28.32	1,000	23.41	826	18.86	666	17.35	613	15.78	557
02 - Southwest Alberta	9.31	329	7.79	275	6.69	236	5.88	208	5.25	185
Tight Portion	2.03	72	1.76	62	1.47	52	1.28	45	1.13	40
03 - Southern Foothills	3.37	119	3.84	136	3.27	116	2.88	102	2.55	90
04 - Eastern Alberta	20.98	740	18.47	652	16.14	570	14.69	519	13.54	478
Tight Portion	0.47	16	0.42	15	0.39	14	0.37	13	0.34	12
05 - Central Alberta	26.40	932	21.62	763	17.19	607	14.39	508	12.31	435
Tight Portion	2.06	73	1.58	56	1.32	47	1.15	41	1.05	37
06 - West Central Alberta	47.69	1,683	40.92	1,445	34.69	1,225	31.80	1,123	30.66	1,082
Tight Portion	14.62	516	12.26	433	9.54	337	8.31	293	8.01	283
07 - Central Foothills	26.95	951	22.32	788	18.21	643	15.24	538	13.17	465
Tight Portion	1.68	59	1.58	56	1.51	53	1.31	46	1.16	41
08 - Kaybob	24.34	859	24.65	870	22.97	811	21.40	755	20.69	730
Tight Portion	9.98	352	11.03	389	10.12	357	9.02	318	8.42	297
09 - Alberta Deep Basin	59.70	2,107	59.14	2,088	55.67	1,965	52.35	1,848	50.16	1,771
Tight Portion	49.55	1,749	50.17	1,771	47.80	1,687	45.20	1,596	43.45	1,534
10 - Northeast Alberta	15.11	533	13.57	479	11.70	413	10.29	363	9.14	323
11 - Peace River	15.38	543	14.41	509	13.74	485	12.65	447	11.86	419
Tight Portion	0.00	0	0.02	1	0.06	2	0.09	3	0.11	4
12 - Northwest Alberta	12.66	447	10.94	386	9.41	332	8.21	290	7.21	254
13 - BC Deep Basin	11.93	421	12.04	425	13.64	482	14.56	514	14.57	514
Montney Portion	0.71	25	1.65	58	2.97	105	4.05	143	5.01	177
Other Tight Portion	7.08	250	6.34	224	5.69	201	5.05	178	4.47	158
14 - Fort St. John	29.79	1,052	34.96	1,234	47.24	1,668	59.85	2,113	71.05	2,508
Montney Portion	5.17	182	11.83	418	24.66	871	37.03	1,307	48.34	1,706
15 - Northeast BC	17.25	609	20.92	738	23.52	830	26.24	926	28.94	1,022
Horn River Shale Portion	2.12	75	6.87	243	9.90	350	12.92	456	16.13	570
Tight Portion	9.02	318	8.73	308	8.60	304	8.56	302	8.30	293
16 - BC Foothills	15.74	556	14.48	511	13.11	463	12.01	424	11.06	390
17 - Southwest Saskatchewan	9.65	341	8.46	299	7.59	268	6.74	238	6.00	212
Tight Portion	9.05	319	7.89	279	7.07	250	6.25	221	5.54	195
18 - West Saskatchewan	4.69	166	4.06	143	3.59	127	3.23	114	2.93	104
19 - East Saskatchewan	1.75	62	1.78	63	1.58	56	1.37	49	1.17	41
22 - Yukon and Northwest Territories	0.45	16	0.54	19	0.48	17	0.42	15	0.37	13
Total Conventional (non-tight)	254.79	8,994	226.51	7,996	201.95	7,129	185.15	6,536	171.70	6,061
Total Tight	139.72	4,932	138.68	4,896	140.07	4,945	145.02	5,119	151.10	5,334
Total CBM	23.48	829	22.02	777	20.09	709	18.40	650	15.64	552
Total Shale	2.12	75	6.87	243	9.90	350	12.92	456	16.13	570
Total WCSB	420.12	14,831	394.08	13,912	372.02	13,133	361.49	12,761	354.57	12,517
Atlantic Canada	9.87	348	8.67	306	7.13	252	11.77	415	8.53	301
Other Canada	0.51	18	0.47	17	0.45	16	0.43	15	0.41	14
Total Canada	430.50	15,197	403.22	14,234	379.60	13,400	373.69	13,192	363.51	12,832

rates are annual averages

* matched to 2010 actuals for January - August

FIGURE C1

Outlook for Total Canadian Gas Deliverability – Mid-Range Case



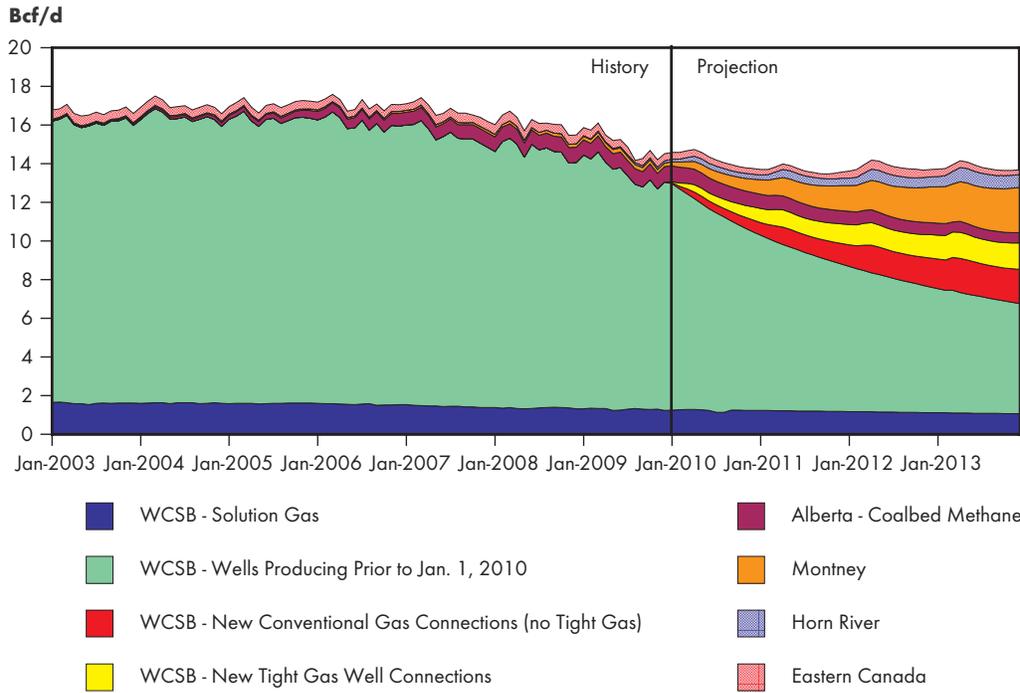
C.2 - Canadian Gas Deliverability by Area/Resource - High Case										
Area/Resource	Historical				Projection					
	2009		2010*		2011		2012		2013	
	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d
00 - Alberta CBM	23.48	829	22.02	777	20.12	710	18.48	652	15.75	556
HSC Portion	18.83	665	17.75	627	16.49	582	15.33	541	14.26	504
Mannville Portion	3.42	121	3.11	110	2.68	95	2.34	82	0.99	35
Other CBM Portion	1.24	44	1.15	41	0.96	34	0.81	29	0.50	17
01 - Southern Alberta	43.50	1,536	37.14	1,311	31.79	1,122	29.53	1,043	26.99	953
Tight Portion	28.32	1,000	23.41	826	19.08	674	17.82	629	16.24	573
02 - Southwest Alberta	9.31	329	7.79	275	6.72	237	5.94	210	5.33	188
Tight Portion	2.03	72	1.76	62	1.48	52	1.30	46	1.16	41
03 - Southern Foothills	3.37	119	3.84	136	3.28	116	2.89	102	2.56	91
04 - Eastern Alberta	20.98	740	18.47	652	16.11	569	14.61	516	13.42	474
Tight Portion	0.47	16	0.42	15	0.39	14	0.36	13	0.33	12
05 - Central Alberta	26.40	932	21.62	763	17.22	608	14.42	509	12.33	435
Tight Portion	2.06	73	1.58	56	1.33	47	1.17	41	1.06	37
06 - West Central Alberta	47.69	1,683	40.92	1,445	35.44	1,251	33.11	1,169	32.14	1,135
Tight Portion	14.62	516	12.26	433	9.82	347	8.79	310	8.70	307
07 - Central Foothills	26.95	951	22.32	788	18.31	646	15.45	546	13.41	473
Tight Portion	1.68	59	1.58	56	1.53	54	1.38	49	1.24	44
08 - Kaybob	24.34	859	24.65	870	23.66	835	22.24	785	21.45	757
Tight Portion	9.98	352	11.03	389	10.95	386	10.35	366	9.95	351
09 - Alberta Deep Basin	59.70	2,107	59.14	2,088	55.78	1,969	52.78	1,863	51.47	1,817
Tight Portion	49.55	1,749	50.17	1,771	47.66	1,682	44.86	1,583	43.26	1,527
10 - Northeast Alberta	15.11	533	13.57	479	11.70	413	10.30	363	9.15	323
11 - Peace River	15.38	543	14.41	509	14.88	525	15.28	539	15.95	563
Tight Portion	0.00	0	0.02	1	0.07	2	0.10	4	0.13	4
12 - Northwest Alberta	12.66	447	10.94	386	9.43	333	8.23	291	7.24	256
13 - BC Deep Basin	11.93	421	12.04	425	15.12	534	17.56	620	18.43	651
Montney Portion	0.71	25	1.65	58	3.73	132	5.57	196	7.00	247
Other Tight Portion	7.08	250	6.34	224	6.06	214	5.82	206	5.29	187
14 - Fort St. John	29.79	1,052	34.96	1,234	48.54	1,713	65.78	2,322	80.66	2,847
Montney Portion	5.17	182	11.83	418	25.69	907	39.93	1,409	53.13	1,875
15 - Northeast BC	17.25	609	20.92	738	24.30	858	28.08	991	32.09	1,133
Horn River Shale Portion	2.12	75	6.87	243	10.53	372	14.57	514	18.93	668
Tight Portion	9.02	318	8.73	308	8.82	311	8.88	314	8.83	312
16 - BC Foothills	15.74	556	14.48	511	13.51	477	12.76	450	11.97	423
17 - Southwest Saskatchewan	9.65	341	8.46	299	7.64	270	6.82	241	6.06	214
Tight Portion	9.05	319	7.89	279	7.12	251	6.33	223	5.60	198
18 - West Saskatchewan	4.69	166	4.06	143	3.60	127	3.24	115	2.95	104
19 - East Saskatchewan	1.75	62	1.78	63	1.58	56	1.37	49	1.17	41
22 - Yukon and Northwest Territories	0.45	16	0.54	19	0.48	17	0.42	15	0.37	13
Total Conventional (non-tight)	254.79	8,994	226.51	7,996	204.85	7,231	193.59	6,834	184.31	6,506
Total Tight	139.72	4,932	138.68	4,896	143.72	5,073	152.66	5,389	161.90	5,715
Total CBM	23.48	829	22.02	777	20.12	710	18.48	652	15.75	556
Total Shale	2.12	75	6.87	243	10.53	372	14.57	514	18.93	668
Total WCSB	420.12	14,831	394.08	13,912	379.22	13,387	379.30	13,390	380.89	13,446
Atlantic Canada	9.87	348	8.67	306	7.60	268	11.78	416	7.87	278
Other Canada	0.51	18	0.47	17	0.45	16	0.43	15	0.41	14
Total Canada	430.50	15,197	403.22	14,234	387.27	13,671	391.51	13,821	389.17	13,738

rates are annual averages

* matched to 2010 actuals for January - August

FIGURE C 2

Outlook for Total Canadian Gas Deliverability – High Case



C.3 - Canadian Gas Deliverability by Area/Resource - Low Case

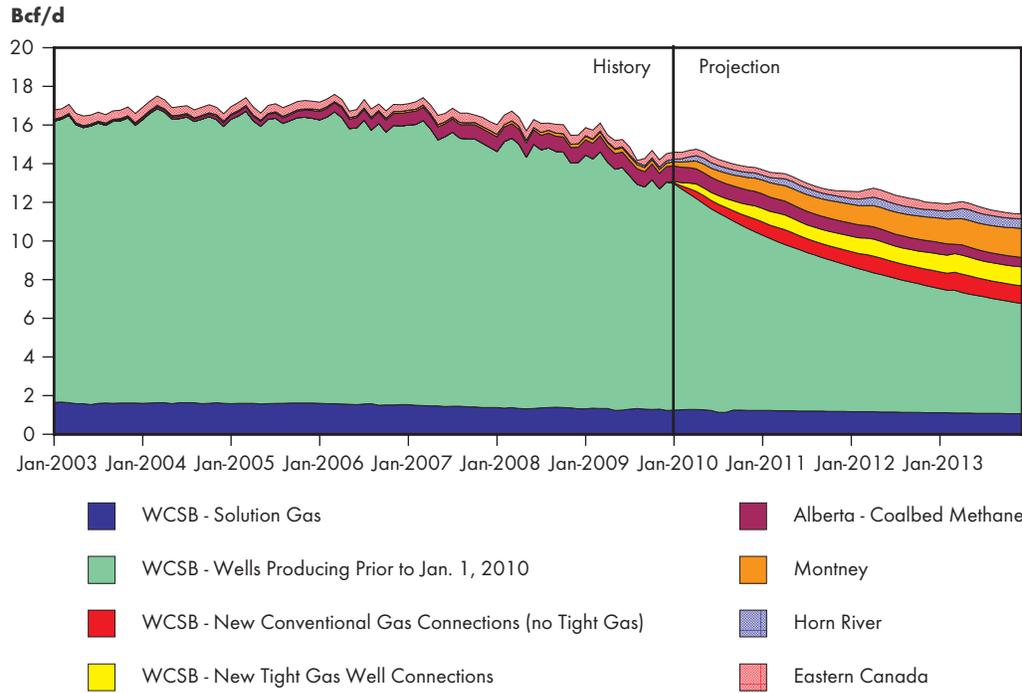
Area/Resource	Historical				Projection					
	2009		2010*		2011		2012		2013	
	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d
00 - Alberta CBM	23.48	829	22.02	777	19.90	702	17.83	629	14.70	519
HSC Portion	18.83	665	17.75	627	16.28	575	14.74	520	13.30	470
Mannville Portion	3.42	121	3.11	110	2.66	94	2.29	81	0.92	32
Other CBM Portion	1.24	44	1.15	41	0.95	34	0.80	28	0.48	17
01 - Southern Alberta	43.50	1,536	37.14	1,311	30.95	1,092	27.47	970	24.20	854
Tight Portion	28.32	1,000	23.41	826	18.51	653	16.42	580	14.34	506
02 - Southwest Alberta	9.31	329	7.79	275	6.64	235	5.78	204	5.12	181
Tight Portion	2.03	72	1.76	62	1.46	51	1.25	44	1.09	39
03 - Southern Foothills	3.37	119	3.84	136	3.27	115	2.87	101	2.54	90
04 - Eastern Alberta	20.98	740	18.47	652	16.05	567	14.48	511	13.24	468
Tight Portion	0.47	16	0.42	15	0.39	14	0.35	13	0.33	12
05 - Central Alberta	26.40	932	21.62	763	17.11	604	14.23	502	12.13	428
Tight Portion	2.06	73	1.58	56	1.30	46	1.11	39	0.99	35
06 - West Central Alberta	47.69	1,683	40.92	1,445	35.30	1,246	32.88	1,161	31.87	1,125
Tight Portion	14.62	516	12.26	433	10.26	362	9.69	342	9.95	351
07 - Central Foothills	26.95	951	22.32	788	18.10	639	15.08	532	13.03	460
Tight Portion	1.68	59	1.58	56	1.50	53	1.33	47	1.23	43
08 - Kaybob	24.34	859	24.65	870	21.78	769	18.53	654	16.66	588
Tight Portion	9.98	352	11.03	389	9.59	338	7.88	278	6.95	245
09 - Alberta Deep Basin	59.70	2,107	59.14	2,088	53.50	1,889	47.83	1,688	44.21	1,561
Tight Portion	49.55	1,749	50.17	1,771	45.89	1,620	41.31	1,458	38.53	1,360
10 - Northeast Alberta	15.11	533	13.57	479	11.71	414	10.27	363	9.11	321
11 - Peace River	15.38	543	14.41	509	12.88	455	10.99	388	9.95	351
Tight Portion	0.00	0	0.02	1	0.06	2	0.08	3	0.09	3
12 - Northwest Alberta	12.66	447	10.94	386	9.39	332	8.17	288	7.17	253
13 - BC Deep Basin	11.93	421	12.04	425	15.08	532	16.14	570	16.55	584
Montney Portion	0.71	25	1.65	58	2.80	99	3.69	130	4.41	156
Other Tight Portion	7.08	250	6.34	224	6.09	215	5.94	210	5.65	200
14 - Fort St. John	29.79	1,052	34.96	1,234	43.41	1,533	49.71	1,755	55.75	1,968
Montney Portion	5.17	182	11.83	418	21.23	749	28.20	996	34.99	1,235
15 - Northeast BC	17.25	609	20.92	738	21.98	776	23.36	825	25.39	896
Horn River Shale Portion	2.12	75	6.87	243	8.84	312	11.06	390	13.88	490
Tight Portion	9.02	318	8.73	308	8.28	292	7.85	277	7.48	264
16 - BC Foothills	15.74	556	14.48	511	12.93	456	11.65	411	10.69	377
17 - Southwest Saskatchewan	9.65	341	8.46	299	7.46	264	6.42	227	5.62	198
Tight Portion	9.05	319	7.89	279	6.94	245	5.93	209	5.16	182
18 - West Saskatchewan	4.69	166	4.06	143	3.57	126	3.19	113	2.88	102
19 - East Saskatchewan	1.75	62	1.78	63	1.58	56	1.37	49	1.17	41
22 - Yukon and Northwest Territories	0.45	16	0.54	19	0.48	17	0.42	15	0.37	13
Total Conventional (non-tight)	254.79	8,994	226.51	7,996	200.08	7,063	178.76	6,310	162.56	5,739
Total Tight	139.72	4,932	138.68	4,896	134.27	4,740	131.04	4,626	131.19	4,631
Total CBM	23.48	829	22.02	777	19.90	702	17.83	629	14.70	519
Total Shale	2.12	75	6.87	243	8.84	312	11.06	390	13.88	490
Total WCSB	420.12	14,831	394.08	13,912	363.09	12,817	338.69	11,956	322.34	11,379
Atlantic Canada	9.87	348	8.67	306	7.13	252	11.77	415	8.53	301
Other Canada	0.51	18	0.47	17	0.45	16	0.43	15	0.41	14
Total Canada	430.50	15,197	403.22	14,234	370.67	13,085	350.89	12,387	331.28	11,695

rates are annual averages

* matched to 2010 actuals for January - August

FIGURE C3

Outlook for Canadian Gas Deliverability – Low Case

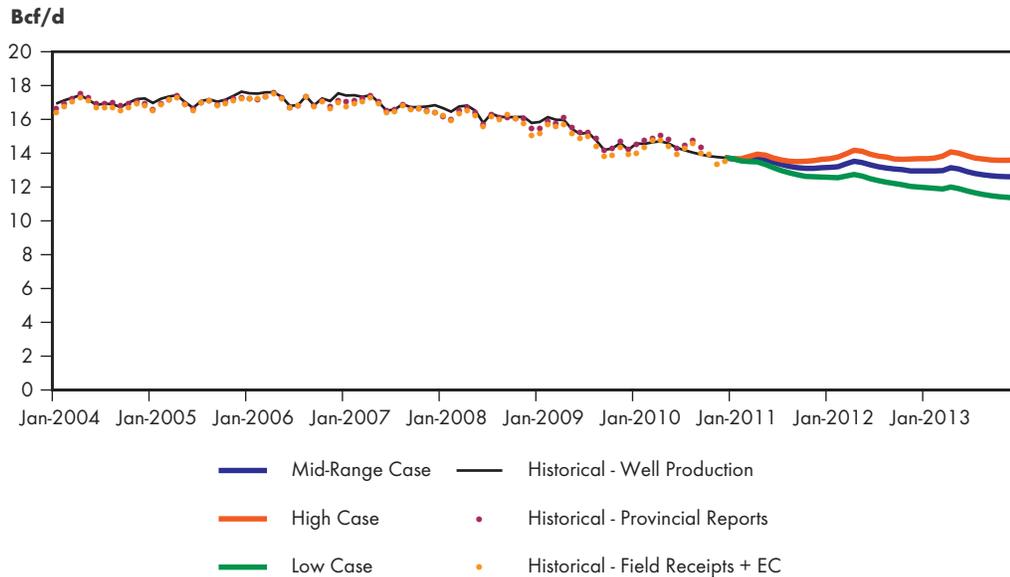


APPENDIX D

Total Canadian Deliverability Comparison of Cases

FIGURE D 1

Total Canadian Deliverability Comparison of Cases



APPENDIX E

Average Annual Canadian Deliverability and Demand

E.1 – Average Annual Canadian Deliverability and Demand										
	2009		2010		2011		2012		2013	
	10 ⁶ m ³ /d	Bcf/d	10 ⁶ m ³ /d	Bcf/d	10 ⁶ m ³ /d	Bcf/d	10 ⁶ m ³ /d	Bcf/d	10 ⁶ m ³ /d	Bcf/d
Canadian Deliverability, Mid-Range Case	430.5	15.2	403.2	14.2	379.6	13.4	373.7	13.2	363.5	12.8
Total Canadian Demand	265.4	9.4	268.0	9.5	274.6	9.7	280.7	9.9	285.4	10.1
Western Canada Demand	166.9	5.9	167.8	5.9	169.9	6.0	172.2	6.1	174.0	6.1
Eastern Canada Demand	98.4	3.5	100.2	3.5	104.7	3.7	108.5	3.8	111.4	3.9
Canadian Produced Net Exports	165.1	5.8	135.2	4.8	105.0	3.7	93.0	3.3	78.2	2.8

