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Short-term Canadian Natural Gas Deliverability

2012-2014



Appendices

AN ENERGY MARKET ASSESSMENT • APRIL 2012

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APPENDIX A

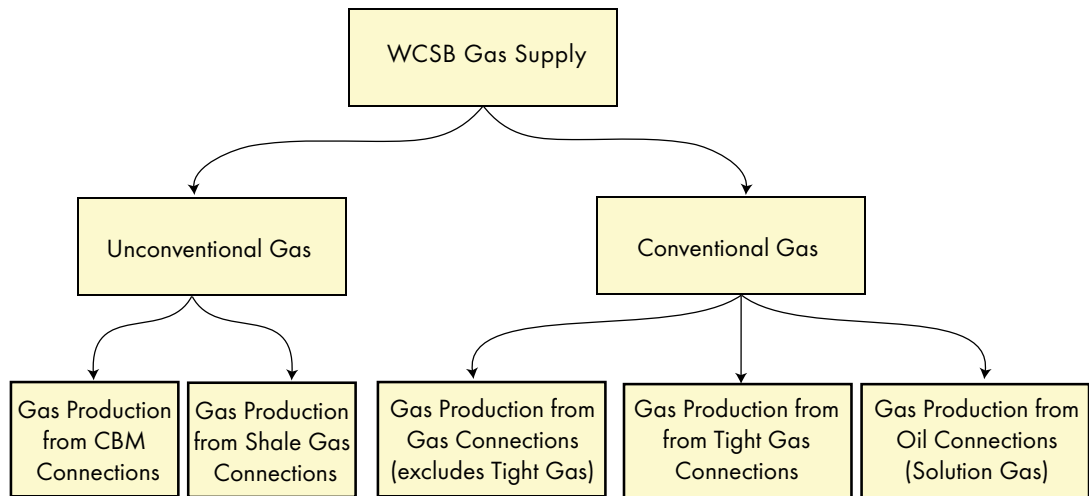
A1 Methodology (Detailed Description)

Canadian natural gas deliverability from 2012 to 2014 will consist of conventional gas supply from the WCSB with contributions from Atlantic Canada, Ontario, Northwest Territories, Yukon, CBM production from Alberta, and shale gas production from BC. In this report, an analysis of trends in well production characteristics and resource development expectations was undertaken to develop parameters that define future natural gas deliverability from the WCSB. A different approach was undertaken for other regions of Canada where production is sourced from a smaller 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.

FIGURE A1.1
WCSB Major Gas Supply Categories for Deliverability Assessment



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 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 related to oil connections (solution gas) is described in section A1.1.2 of this appendix.

A1.1.1 Gas Connections from Gas Wells

The methodology used to assess deliverability is mostly 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 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 Lake, 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 grouped by connection year, with all connections made prior to 1999 forming a single grouping, and separate groupings for each year from 1999 through 2010.

CBM connections were grouped primarily by zone into three categories:

- Horseshoe Canyon Main Play
- Mannville CBM, and
- Other CBM

For the projection period, CBM development is expected to occur only 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 2004, and separate groupings for each year from 2004 through 2010. For Mannville CBM, a single grouping was made for all connections made prior to 2006, 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, 2011, and “future connections” are connections brought on production from January 1, 2011 onwards. 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 is 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 the production decline analysis on existing connections is described below. The group deliverability parameters and average connection deliverability parameters resulting from this analysis are contained in Appendix A.3. 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 below 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 database.
- 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 the average number of days in a month, or 30.4, 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-1999 Connections**

In each study area, the rate versus cumulative production plot for the grouping of gas connections on production prior to 1999 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 all the connections prior to 1999 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 1999 through 2010**

After the initial aggregate connection year is evaluated for a study area, each connection year is evaluated in sequence, from 1999 through 2010.

- 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:

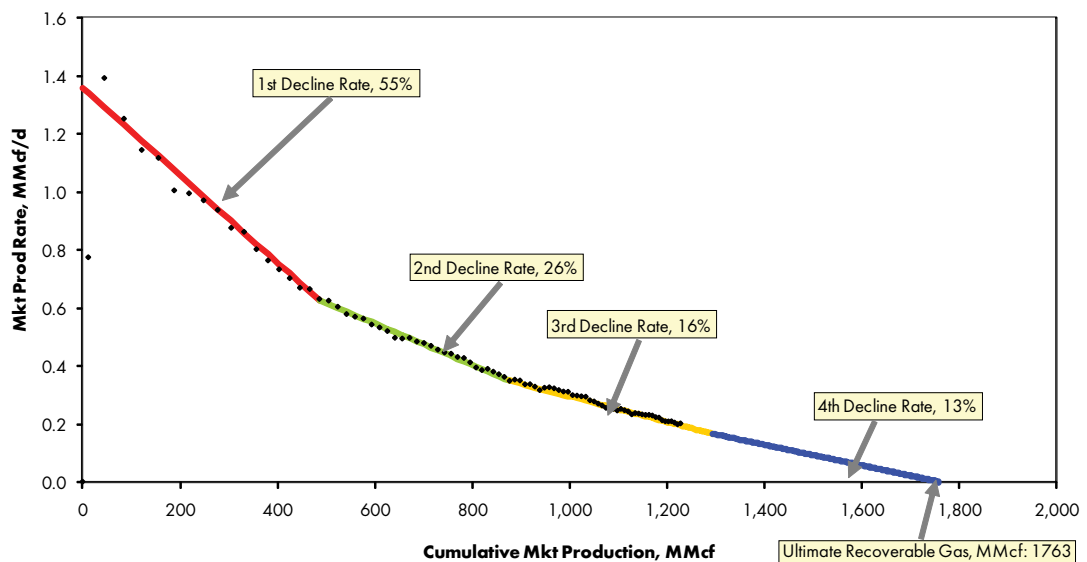
- Initial Production Rate
- First Decline Rate
- Second Decline Rate
- Months to Second Decline Rate- usually around 18 months
- Third Decline Rate
- Months to Third Decline Rate- usually around 45 months
- Fourth Decline Rate
- Months to Fourth Decline Rate- usually around 100 months.

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 shorter 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 A1.3, 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-1999 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.

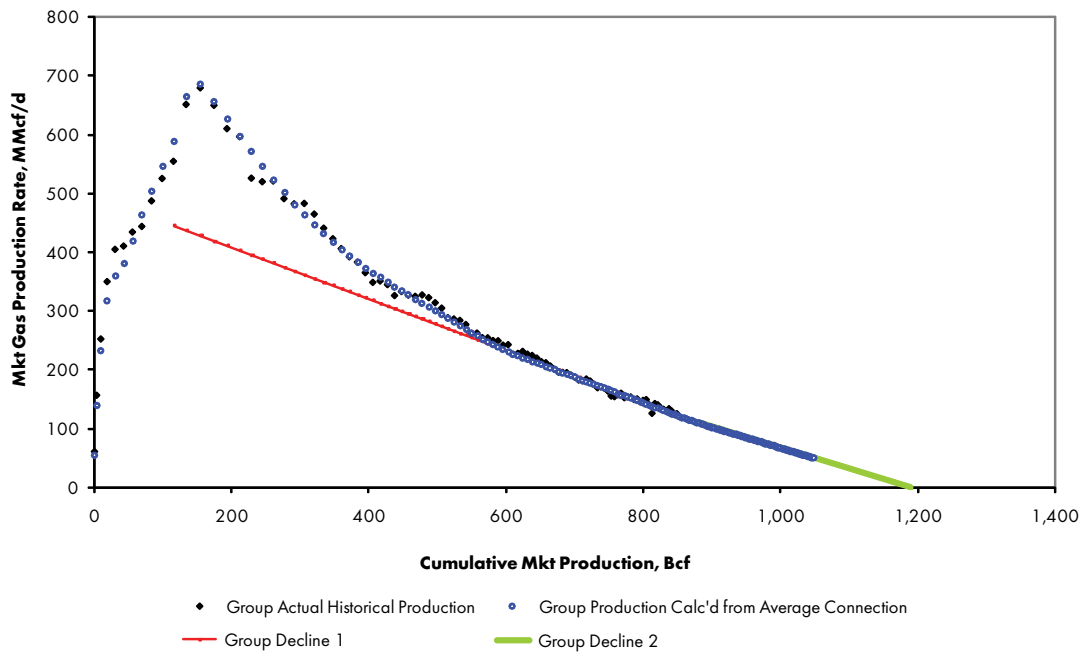
As a first step, the average connection performance parameters are combined with the known connection schedule to calculate the expected group performance. This is plotted with the actual group performance data. If the data calculated from average connection performance data does not provide a good match 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 2010
- 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 (2001, 2002, etc.), the actual group data is usually stabilized by the current date at or near the terminal decline rate established via the pre-1999 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 (2009, 2010, 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 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.

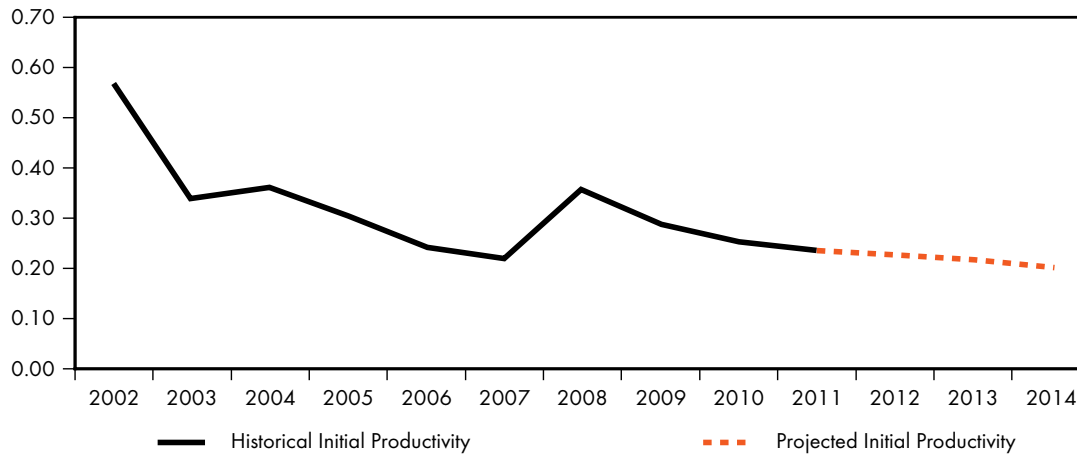
In some groupings, each new connection year follows a trend of decreasing initial productivity for the average conventional gas connection. This trend is evident in Figure A1.5, which shows the initial production rate over time for conventional gas connections in the Southern Alberta Mannville conventional grouping. Recently, however, there has been a trend in some tight and shale groupings where initial productivity for the average gas connection has been increasing. 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.

FIGURE A1.5

Example of Initial Productivity of Average Connections by Connection Year

Southern Alberta Mannville Conventional Grouping

Average Well Initial Productivity, Marketable Gas -MMcf/d



Source: NEB analysis of Divestco well production data

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 2002 through 2014 for conventional gas connections in the Southwest Alberta, Tertiary, Upper Cretaceous, Upper Colorado grouping. As shown in Figure A1.6, trends seen in the decline parameters in past connection years are used to establish these key parameters for future years.

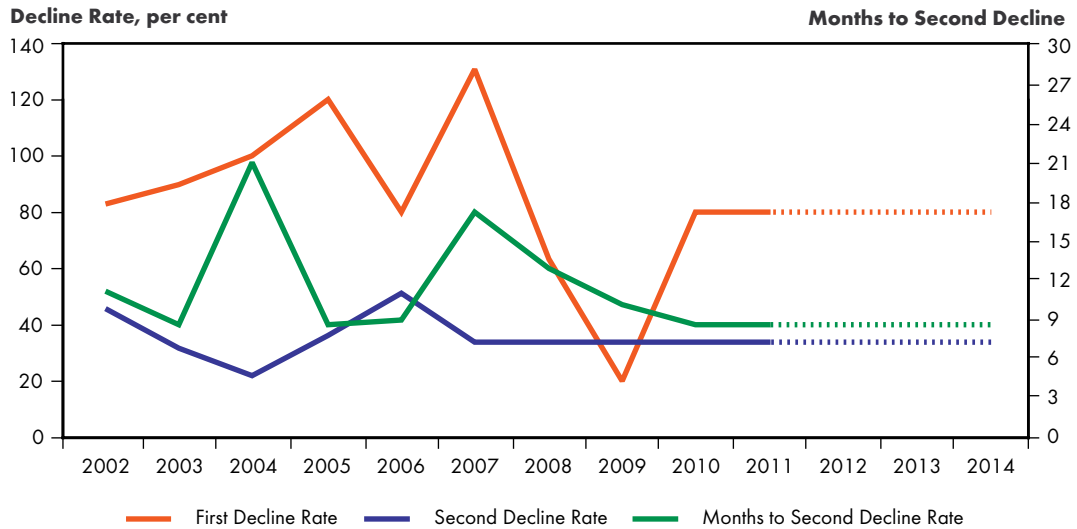
A1.1.1.3.2 Number of Future Connections

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 drilling activity cases in the WCSB. Other inputs required by the procedure are

FIGURE A1.6

Example of Key Decline Parameters for Average Connections over time
 Southwest Alberta, Tertiary, Upper Cretaceous, Upper Colorado Conventional Grouping



shown as green boxes in Figure A1.7. The values projected for these other inputs are estimated from an analysis of historical data.

The drilling projection provides the number of gas-intent drill days that target each resource grouping. The Board projects an allocation of gas-intent drill days for each of the resource groupings. The allocation fractions are determined from historical trends, recent estimates of supply costs, and the Board’s view of development potential for the resource groupings. The allocation fractions reflect the historical trends of an increasing focus on the deeper formations located in the western side of the basin, increasing interest in tight gas and B.C. shale gas, and further development of liquids rich/wet natural gas. Tables of the historical data (drill days and allocation fractions) and the projected allocation fractions are available in Table B1.

After allocating the gas-intent drill days to the resource groupings, a check is completed against drilling capacity to ensure that physical drilling limitations are 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.

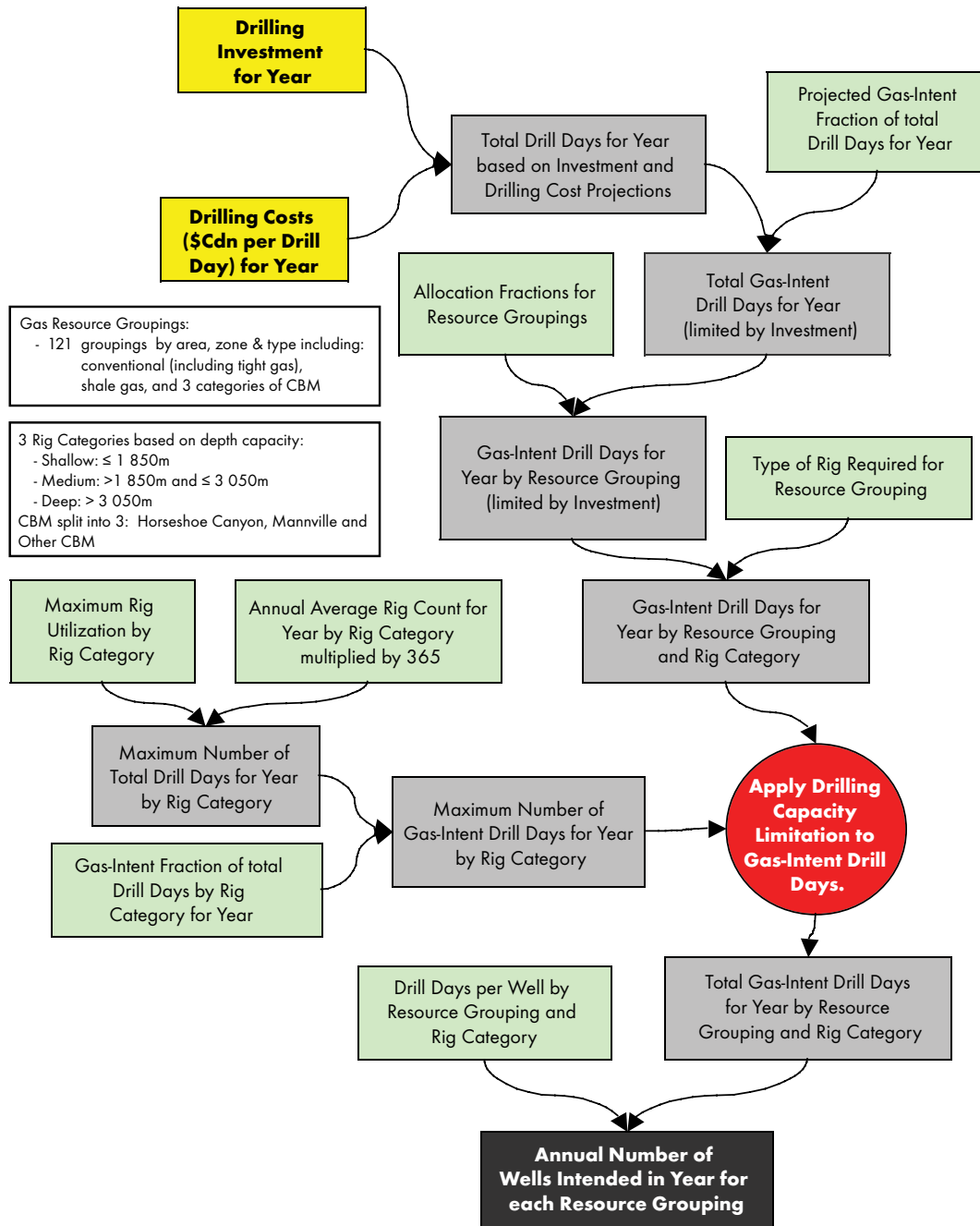
For each resource grouping, a connection ratio (the ratio of annual connections to annual wells drilled targeting a grouping) is estimated based on historical data. The annual number of wells drilled is multiplied by the connection ratio to obtain the number of annual connections for each resource grouping. The connection ratios for each resource grouping are provided in Table 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 produced from oil wells in conjunction with the crude oil and accounts for about nine 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

FIGURE A1.7

Flowchart of NEB Drilling Projection Methodology



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).

A1.1.3 Yukon and Northwest Territories

In the Yukon and Northwest Territories, conventional gas is produced to the pipeline grid from two pools close to the territorial border of 60 degrees north latitude. These two pools (or fields) are

Kotaneelee and Cameron Hills. Much further to the north, the Ikhil and Norman Wells fields also produce small amounts of gas that serve local purposes and are 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 elsewhere 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 from offshore Nova Scotia, 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, as stated by the operator, is expected to begin in July 2012.

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 industry consultations, and takes into consideration the performance of existing wells.

Due to the early stage of assessment and lack of data, reasonable estimates of onshore CBM and shale gas deliverability in Nova Scotia and New Brunswick cannot be developed at this time.

A1.3 Other Canadian Production

The WCSB, Yukon and Northwest Territories, and Atlantic Canada discussed in the preceding sections of this chapter account for almost all of Canada's deliverability. The minor remaining amount of Canadian deliverability is from Ontario. Deliverability from Ontario is projected by extrapolation of historical production volumes. Quebec natural gas deliverability is not included in the projection due to insufficient data.

A1.4 Canadian Deliverability and Canadian Demand

For a better understanding of 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.

Natural gas deliverability is defined as the estimated amount of gas supply from a given area, after field processing, based on historical production and individual well declines, as well as projected activity. 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 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.

Canadian gas demand includes gas required for pipeline fuel in the respective areas. The Board's projection of Canadian 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 space heating and cooling needs.

A2 Deliverability Parameters - Results

A2.1 WCSB

Using the Board's 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), and unconventional (including shale gas and 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 1 January, 2011), 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 1 January, 2011), 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), and unconventional (including shale gas and 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 price cases considered in this report. The different price 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 2010 and as many as four future decline rates that apply to 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 is 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 2010. 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 17 per cent over 2011, by a further 14 per cent in 2012, 14 per cent in 2013, and 13 per cent in 2014. 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 less. The key uncertainty is the level of gas drilling that will occur. Three price 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 based on area, formation, and connection year from 1999 through 2010. 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 increases from connection year to connection year.

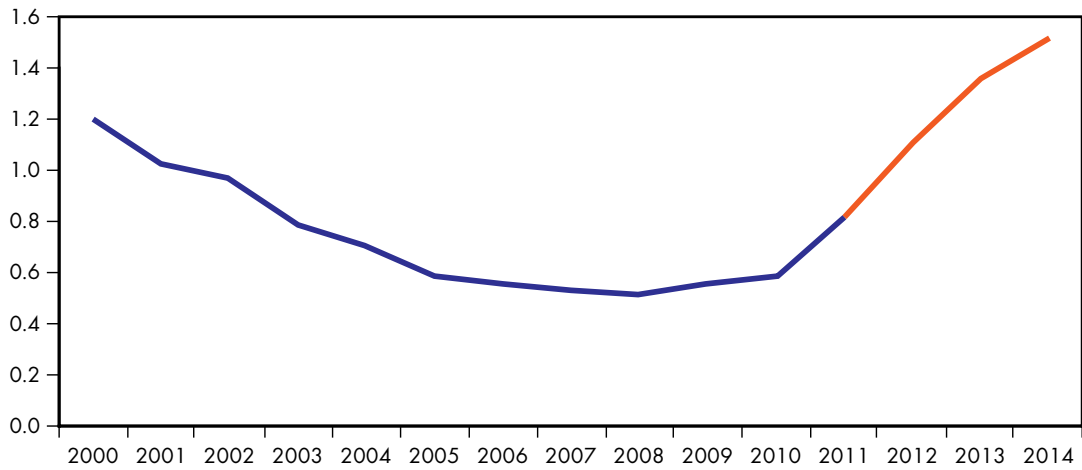
With respect to initial productivity of the average gas connection, the overall trend for the WCSB is shown in Figure A2.1. After decreases in initial productivity over 2000 to 2007, the trend reversed upwards for 2008, and continues upwards through to 2014 as higher initial productivity rates from tight gas and shale gas wells begin to represent a growing share of the wells drilled in a year.

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 of all performance parameters for average connections by grouping for both historical and future connection year groupings.

FIGURE A 2.1

WCSB Initial Productivity of Average Conventional Gas Connections by Connection Year

MMcf/d



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	2010
00 - Alberta CBM	0.066	0.074	0.101	0.102	0.096	0.064	0.048
01 - Southern Alberta	0.158	0.135	0.107	0.098	0.114	0.104	0.131
02 - Southwest Alberta	0.308	0.235	0.232	0.227	0.304	0.288	0.233
03 - Southern Foothills	1.115	1.252	1.181	0.342	0.151	0.683	
04 - Eastern Alberta	0.091	0.089	0.071	0.071	0.076	0.091	0.090
05 - Central Alberta	0.290	0.201	0.191	0.202	0.187	0.198	0.133
06 - West Central Alberta	0.389	0.408	0.349	0.411	0.494	0.410	0.561
07 - Central Foothills	1.558	1.820	1.179	1.611	1.667	1.565	1.076
08 - Kaybob	0.570	0.574	0.629	0.563	0.555	0.852	0.724
09 - Alberta Deep Basin	0.999	0.784	0.468	0.825	0.738	1.016	1.038
10 - Northeast Alberta	0.182	0.180	0.145	0.163	0.162	0.148	0.142
11 - Peace River	0.662	0.654	0.450	0.561	0.538	0.645	0.795
12 - Northwest Alberta	0.424	0.373	0.318	0.268	0.391	0.731	0.334
13 - BC Deep Basin	1.340	0.750	1.239	1.037	1.180	0.901	1.455
14 - Fort St. John	0.647	0.734	0.476	0.720	0.590	0.898	0.509
15 - Northeast BC	1.051	0.788	0.581	0.472	0.679	0.469	1.323
16 - BC Foothills	3.272	1.855	2.945	2.556	1.925	1.246	1.719
17 - Southwest Saskatchewan	0.058	0.071	0.070	0.057	0.054	0.061	0.040
18 - West Saskatchewan	0.150	0.137	0.118	0.125	0.093	0.138	0.095
Total WCSB	0.702	0.585	0.571	0.548	0.526	0.553	0.580

Source: NEB Analysis of Divestco Well Production Data

The average connection performance parameters projected for connection years 2011 through 2014 are the same in all three price 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.

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.

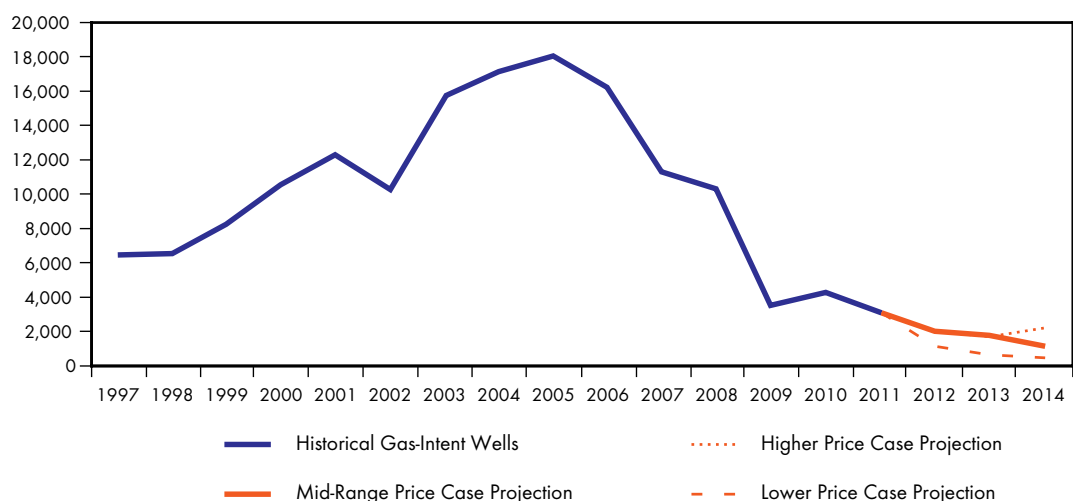
Volatile and unpredictable market conditions are expected to be the primary influence on gas-intent drilling activity. As a result, there is a high degree of uncertainty in the gas drilling activity that might occur in the coming years. Three drilling activity cases (Mid-Range, Higher, and Lower) that are based on projections of gas price 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 grouping 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 Table B2.

FIGURE A2.2

WCSB Gas-Intent Drilling Cases

Annual Gas-Intent Wells



A2.2 Atlantic Canada, Ontario, and Quebec

As indicated in Appendix A1, deliverability from Atlantic Canada and Ontario is based on extrapolation of prior trends. No new major drilling activities are assumed over the 2012 to 2014 period that would contribute to deliverability at this time.

Marketable production from the Deep Panuke development, as stated by the operator, is expected to start in July 2012.

Future development and performance of the McCully field in New Brunswick is based on corporate development plans and consultations with industry. No major additional drilling is expected over the projection period.

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 due to a lack of data.

Deliverability from Ontario continues to decline with no major additional drilling expected over the projection period.

Shale gas potential exists in Quebec; however, insufficient data is available. Consequently, this report does not show any natural gas deliverability throughout the projection period.

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

Area name	Area Number	Resource Type	Resource Group
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
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	Tri
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

Area name	Area Number	Resource Type	Resource Group
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
BC Foothills	16	Tight	LwrTri
BC Foothills	16	Tight	Tri
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, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2005	173.71	0.14	0.12	25	0.10	60
2006	229.90	0.14	0.12	25	0.10	60
2007	152.19	0.14	0.12	25	0.10	60
2008	116.60	0.14	0.12	25	0.10	60
2009	92.12	0.14	0.12	25	0.10	60
2010	48.27	0.14	0.12	25	0.10	60

Resource Grouping - Gas - Alberta Coalbed Methane - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2006	45.22	0.16	0.14	25	0.12	60
2007	31.48	0.16	0.14	25	0.12	60
2008	38.56	0.14	0.12	25	0.10	60
2009	8.33	0.14	0.12	25	0.10	60
2010	4.75	0.14	0.12	25	0.10	60

Resource Grouping - Gas - Alberta Coalbed Methane - Other						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2005	14.40	0.10	0.08	25	0.05	60
2006	16.07	0.10	0.08	25	0.05	60
2007	20.53	0.10	0.08	25	0.05	60
2008	22.30	0.10	0.08	25	0.05	60
2009	7.21	0.10	0.08	25	0.05	60
2010	3.53	0.10	0.08	25	0.05	60

Resource Grouping - Gas - Southern Alberta - Conventional - Tertiary, Upper Cretaceous, Upper Colorado

Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	12.19	0.16	0.14	25	0.12	60
2003	18.55	0.16	0.14	25	0.12	60
2004	35.07	0.16	0.14	25	0.12	60
2005	25.32	0.16	0.14	25	0.12	60
2006	32.01	0.16	0.14	25	0.12	60
2007	34.80	0.16	0.14	25	0.12	60
2008	29.45	0.16	0.14	25	0.12	60
2009	15.32	0.16	0.14	25	0.12	60
2010	31.54	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Southern Alberta - Conventional - Colorado

Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	11.04	0.16	0.14	25	0.12	60
2003	11.47	0.16	0.14	25	0.12	60
2004	15.96	0.16	0.14	25	0.12	60
2005	9.07	0.16	0.14	25	0.12	60
2006	7.10	0.16	0.14	25	0.12	60
2007	17.02	0.16	0.14	25	0.12	60
2008	19.24	0.16	0.14	25	0.12	60
2009	8.12	0.16	0.14	25	0.12	60
2010	4.26	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Southern Alberta - Conventional - Mannville

Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	26.52	0.16	0.14	25	0.12	60
2003	34.67	0.16	0.14	25	0.12	60
2004	36.06	0.16	0.14	25	0.12	60
2005	24.43	0.16	0.14	25	0.12	60
2006	30.06	0.16	0.14	25	0.12	60
2007	42.53	0.16	0.14	25	0.12	60
2008	49.90	0.16	0.14	25	0.12	60
2009	27.07	0.16	0.14	25	0.12	60
2010	28.68	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Southern Alberta - Tight - Upper Colorado

Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	126.70	0.16	0.14	25	0.12	60
2003	182.08	0.16	0.14	25	0.12	60
2004	258.02	0.16	0.14	25	0.12	60
2005	183.92	0.16	0.14	25	0.12	60
2006	174.99	0.16	0.14	25	0.12	60
2007	185.42	0.16	0.14	25	0.12	60
2008	171.17	0.16	0.14	25	0.12	60
2009	113.86	0.16	0.14	25	0.12	60
2010	101.24	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Southwest Alberta - Conventional - Tertiary, Upper Cretaceous, Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	14.72	0.16	0.14	25	0.12	60
2003	19.22	0.16	0.14	25	0.12	60
2004	13.75	0.16	0.14	25	0.12	60
2005	19.12	0.16	0.14	25	0.12	60
2006	16.58	0.16	0.14	25	0.12	60
2007	14.43	0.16	0.14	25	0.12	60
2008	16.16	0.16	0.14	25	0.12	60
2009	5.31	0.16	0.14	25	0.12	60
2010	9.72	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Southwest Alberta - Conventional - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	3.25	0.16	0.14	25	0.12	60
2003	5.31	0.16	0.14	25	0.12	60
2004	1.81	0.16	0.14	25	0.12	60
2005	4.42	0.16	0.14	25	0.12	60
2006	3.08	0.16	0.14	25	0.12	60
2007	2.82	0.16	0.14	25	0.12	60
2008	2.24	0.16	0.14	25	0.12	60
2009	0.65	0.16	0.14	25	0.12	60
2010	1.02	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Southwest Alberta - Conventional - Middle Mannville, Lower Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	6.99	0.16	0.14	25	0.12	60
2003	4.30	0.16	0.14	25	0.12	60
2004	8.27	0.16	0.14	25	0.12	60
2005	7.92	0.16	0.14	25	0.12	60
2006	4.50	0.16	0.14	25	0.12	60
2007	8.39	0.16	0.14	25	0.12	60
2008	12.96	0.16	0.14	25	0.12	60
2009	11.47	0.16	0.14	25	0.12	60
2010	10.94	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Southwest Alberta - Conventional - Jurassic, Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	2.90	0.16	0.14	25	0.12	60
2003	5.12	0.16	0.14	25	0.12	60
2004	4.63	0.16	0.14	25	0.12	60
2005	2.03	0.16	0.14	25	0.12	60
2006	0.20	0.16	0.14	25	0.12	60
2007	2.44	0.16	0.14	25	0.12	60
2008	2.54	0.16	0.14	25	0.12	60
2009	5.09	0.16	0.14	25	0.12	60
2010	0.00	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Southwest Alberta - Conventional - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	4.62	0.20	0.16	25	0.12	60
2003	29.12	0.20	0.16	25	0.12	60
2004	11.12	0.20	0.16	25	0.12	60
2005	0.81	0.20	0.16	25	0.12	60
2006	0.00	0.00	0.00	0	0.00	0
2007	3.12	0.20	0.16	25	0.12	60
2008	1.21	0.25	0.16	25	0.12	60
2009	0.00	0.00	0.00	0	0.00	0
2010	3.17	0.20	0.16	25	0.12	60

Resource Grouping - Gas - Southwest Alberta - Tight - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	1.26	0.20	0.16	25	0.12	60
2003	2.39	0.20	0.16	25	0.12	60
2004	3.89	0.20	0.16	25	0.12	60
2005	5.10	0.20	0.16	25	0.12	60
2006	1.05	0.20	0.16	25	0.12	60
2007	2.05	0.20	0.16	25	0.12	60
2008	0.20	0.20	0.16	25	0.12	60
2009	0.48	0.20	0.16	25	0.12	60
2010	0.00	0.20	0.16	25	0.12	60

Resource Grouping - Gas - Southwest Alberta - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	1.54	0.20	0.16	25	0.12	60
2003	2.97	0.20	0.16	25	0.12	60
2004	2.01	0.20	0.16	25	0.12	60
2005	1.31	0.20	0.16	25	0.12	60
2006	0.35	0.20	0.16	25	0.12	60
2007	2.04	0.20	0.16	25	0.12	60
2008	0.10	0.20	0.16	25	0.12	60
2009	2.47	0.20	0.16	20	0.12	60
2010	0.00	0.20	0.16	20	0.12	60

Resource Grouping - Gas - Southwest Alberta - Tight - Lower Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	11.76	0.16	0.14	25	0.12	60
2003	15.12	0.16	0.14	25	0.12	60
2004	21.62	0.16	0.14	25	0.12	60
2005	13.39	0.16	0.14	25	0.12	60
2006	19.96	0.16	0.14	25	0.12	60
2007	15.16	0.16	0.14	25	0.12	60
2008	11.70	0.16	0.14	25	0.12	60
2009	7.29	0.16	0.14	25	0.12	60
2010	3.55	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Southern Foothills - Conventional - Mississippian, Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	50.10	0.14	0.13	25	0.12	60
2003	25.40	0.16	0.14	25	0.12	60
2004	65.59	0.16	0.14	25	0.12	60
2005	26.00	0.16	0.14	25	0.12	60
2006	74.42	0.16	0.14	25	0.12	60
2007	38.40	0.16	0.14	25	0.12	60
2008	24.44	0.16	0.14	25	0.12	60
2009	32.85	0.16	0.14	25	0.12	60
2010	0.01	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Eastern Alberta - Conventional - Upper Cretaceous, Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	1.87	0.16	0.14	25	0.12	60
2003	2.97	0.16	0.14	25	0.12	60
2004	2.90	0.16	0.14	25	0.12	60
2005	6.06	0.16	0.14	25	0.12	60
2006	12.37	0.16	0.14	25	0.12	60
2007	11.50	0.16	0.14	25	0.12	60
2008	18.02	0.30	0.22	18	0.11	40
2009	2.24	0.16	0.14	25	0.12	60
2010	3.39	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Eastern Alberta - Conventional - Colorado, Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	97.80	0.16	0.14	25	0.12	60
2003	88.69	0.16	0.14	25	0.12	60
2004	119.24	0.16	0.14	25	0.12	60
2005	144.29	0.16	0.14	25	0.12	60
2006	114.35	0.16	0.14	25	0.12	60
2007	94.62	0.16	0.14	25	0.12	60
2008	92.00	0.16	0.14	25	0.12	60
2009	50.07	0.16	0.14	25	0.12	60
2010	24.16	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Eastern Alberta - Tight - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	6.22	0.16	0.14	25	0.12	60
2003	5.83	0.16	0.14	25	0.12	60
2004	0.00	0.00	0.00	0	0.00	0
2005	5.84	0.16	0.14	25	0.12	60
2006	3.60	0.16	0.14	25	0.12	60
2007	1.34	0.16	0.14	25	0.12	60
2008	0.35	0.16	0.14	25	0.12	60
2009	1.23	0.16	0.14	25	0.12	60
2010	1.27	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Central Alberta - Conventional - Tertiary, Upper Cretaceous						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	16.86	0.16	0.14	25	0.12	60
2003	30.18	0.16	0.14	25	0.12	60
2004	47.82	0.16	0.14	25	0.12	60
2005	49.91	0.16	0.14	25	0.12	60
2006	49.07	0.16	0.14	25	0.12	60
2007	55.71	0.16	0.14	25	0.12	60
2008	43.24	0.16	0.14	25	0.12	60
2009	12.75	0.16	0.14	25	0.12	60
2010	10.79	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Central Alberta - Conventional - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	6.22	0.16	0.14	25	0.12	60
2003	11.41	0.16	0.14	25	0.12	60
2004	12.65	0.16	0.14	25	0.12	60
2005	15.30	0.16	0.14	25	0.12	60
2006	13.40	0.16	0.14	25	0.12	60
2007	16.03	0.16	0.14	25	0.12	60
2008	7.81	0.16	0.14	25	0.12	60
2009	3.06	0.16	0.14	25	0.12	60
2010	3.01	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Central Alberta - Conventional - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	91.65	0.16	0.14	25	0.12	60
2003	128.87	0.16	0.14	25	0.12	60
2004	133.25	0.16	0.14	25	0.12	60
2005	142.75	0.16	0.14	25	0.12	60
2006	186.87	0.16	0.14	25	0.12	60
2007	163.31	0.16	0.14	25	0.12	60
2008	158.62	0.16	0.14	25	0.12	60
2009	78.67	0.16	0.14	25	0.12	60
2010	48.63	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Central Alberta - Conventional - Mississippian, Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	9.02	0.16	0.14	25	0.12	60
2003	25.14	0.16	0.14	25	0.12	60
2004	8.99	0.16	0.14	25	0.12	60
2005	14.39	0.16	0.14	25	0.12	60
2006	11.35	0.16	0.14	25	0.12	60
2007	15.86	0.16	0.14	25	0.12	60
2008	11.88	0.16	0.14	25	0.12	60
2009	3.93	0.16	0.14	25	0.12	60
2010	2.48	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Central Alberta - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	3.07	0.10	0.08	25	0.05	60
2003	8.47	0.10	0.08	25	0.05	60
2004	7.32	0.10	0.08	25	0.05	60
2005	11.01	0.10	0.08	25	0.05	60
2006	5.80	0.10	0.08	25	0.05	60
2007	2.23	0.10	0.08	25	0.05	60
2008	1.12	0.10	0.08	25	0.05	60
2009	2.60	0.10	0.08	25	0.05	60
2010	1.26	0.10	0.08	25	0.05	60

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
2002	0.35	0.16	0.14	25	0.12	60
2003	2.47	0.16	0.14	25	0.12	60
2004	4.31	0.16	0.14	25	0.12	60
2005	3.47	0.16	0.14	25	0.12	60
2006	3.77	0.16	0.14	25	0.12	60
2007	3.73	0.16	0.14	25	0.12	60
2008	2.34	0.16	0.14	25	0.12	60
2009	2.25	0.16	0.14	25	0.12	60
2010	2.13	0.16	0.14	25	0.12	60

Resource Grouping - Gas - West Central Alberta - Conventional - Tertiary						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	5.83	0.14	0.12	25	0.10	60
2003	10.96	0.16	0.14	25	0.12	60
2004	21.19	0.16	0.14	25	0.12	60
2005	25.89	0.16	0.14	25	0.12	60
2006	26.48	0.16	0.14	25	0.12	60
2007	22.51	0.16	0.14	25	0.12	60
2008	22.27	0.16	0.14	25	0.12	60
2009	10.58	0.16	0.14	25	0.12	60
2010	17.20	0.16	0.14	25	0.12	60

Resource Grouping - Gas - West Central Alberta - Conventional - Upper Cretaceous, Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	9.13	0.16	0.14	25	0.12	60
2003	12.00	0.16	0.14	25	0.12	60
2004	16.27	0.16	0.14	25	0.12	60
2005	21.10	0.16	0.14	25	0.12	60
2006	28.19	0.16	0.14	25	0.12	60
2007	24.05	0.16	0.14	25	0.12	60
2008	24.48	0.16	0.14	25	0.12	60
2009	16.58	0.16	0.14	25	0.12	60
2010	17.27	0.16	0.14	25	0.12	60

Resource Grouping - Gas - West Central Alberta - Conventional - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	2.43	0.10	0.08	25	0.05	60
2003	2.55	0.10	0.08	25	0.05	60
2004	2.95	0.10	0.08	25	0.05	60
2005	7.75	0.10	0.08	25	0.05	60
2006	0.89	0.10	0.08	25	0.05	60
2007	1.91	0.10	0.08	25	0.05	60
2008	8.28	0.10	0.08	25	0.05	60
2009	0.12	0.10	0.08	25	0.05	60
2010	3.37	0.10	0.08	25	0.05	60

Resource Grouping - Gas - West Central Alberta - Conventional - Lower Mannville, Jurassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	22.74	0.12	0.10	25	0.08	60
2003	24.64	0.12	0.10	25	0.08	60
2004	30.95	0.12	0.10	25	0.08	60
2005	37.06	0.12	0.10	25	0.08	60
2006	44.83	0.12	0.10	25	0.08	60
2007	36.75	0.12	0.10	25	0.08	60
2008	38.61	0.12	0.10	25	0.08	60
2009	24.17	0.12	0.10	25	0.08	60
2010	14.93	0.12	0.10	25	0.08	60

Resource Grouping - Gas - West Central Alberta - Conventional - Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	50.77	0.16	0.14	25	0.12	60
2003	33.70	0.16	0.14	25	0.12	60
2004	41.52	0.16	0.14	25	0.12	60
2005	38.07	0.16	0.14	25	0.12	60
2006	42.58	0.16	0.14	25	0.12	60
2007	50.90	0.16	0.14	25	0.12	60
2008	15.08	0.16	0.14	25	0.12	60
2009	27.58	0.16	0.14	25	0.12	60
2010	19.87	0.16	0.14	25	0.12	60

Resource Grouping - Gas - West Central Alberta - Conventional - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	18.52	0.16	0.14	25	0.12	60
2003	25.29	0.16	0.14	25	0.12	60
2004	38.88	0.16	0.14	25	0.12	60
2005	29.13	0.16	0.14	25	0.12	60
2006	4.11	0.16	0.14	25	0.12	60
2007	41.83	0.16	0.14	25	0.12	60
2008	1.51	0.16	0.14	25	0.12	60
2009	3.99	0.16	0.14	25	0.12	60
2010	2.25	0.16	0.14	25	0.12	60

Resource Grouping - Gas - West Central Alberta - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	0.76	0.12	0.10	25	0.08	60
2003	3.06	0.12	0.10	25	0.08	60
2004	10.77	0.12	0.10	25	0.08	60
2005	11.05	0.12	0.10	25	0.08	60
2006	22.09	0.12	0.10	25	0.08	60
2007	7.12	0.12	0.10	25	0.08	60
2008	12.33	0.12	0.10	25	0.08	60
2009	1.17	0.12	0.10	25	0.08	60
2010	8.18	0.12	0.10	25	0.08	60

Resource Grouping - Gas - West Central Alberta - Tight - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	53.87	0.16	0.14	25	0.12	60
2003	66.64	0.16	0.14	25	0.12	60
2004	88.53	0.16	0.14	25	0.12	60
2005	92.16	0.16	0.14	25	0.12	60
2006	118.46	0.16	0.14	25	0.12	60
2007	102.34	0.16	0.14	25	0.12	60
2008	124.06	0.16	0.14	25	0.12	60
2009	87.93	0.16	0.14	25	0.12	60
2010	59.75	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Central Foothills - Conventional - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	28.19	0.16	0.14	25	0.12	60
2003	10.28	0.16	0.14	25	0.12	60
2004	25.73	0.16	0.14	25	0.12	60
2005	15.32	0.16	0.14	25	0.12	60
2006	13.62	0.16	0.14	25	0.12	60
2007	13.35	0.16	0.14	25	0.12	60
2008	26.53	0.16	0.14	25	0.12	60
2009	6.28	0.16	0.14	25	0.12	60
2010	3.07	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Central Foothills - Conventional - Colorado, Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	39.25	0.16	0.14	25	0.12	60
2003	36.89	0.16	0.14	25	0.12	60
2004	42.01	0.16	0.14	25	0.12	60
2005	11.97	0.16	0.14	25	0.12	60
2006	18.76	0.16	0.14	25	0.12	60
2007	16.61	0.16	0.14	25	0.12	60
2008	32.73	0.16	0.14	25	0.12	60
2009	19.67	0.16	0.14	25	0.12	60
2010	16.98	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Central Foothills - Conventional - Jurassic, Triassic, Permian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	9.75	0.16	0.14	25	0.10	60
2003	22.47	0.16	0.14	25	0.12	60
2004	18.10	0.16	0.14	25	0.12	60
2005	5.41	0.16	0.14	25	0.12	60
2006	26.31	0.16	0.14	25	0.12	60
2007	37.89	0.16	0.14	25	0.12	60
2008	9.86	0.16	0.14	24	0.12	60
2009	24.08	0.16	0.14	25	0.12	60
2010	10.21	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Central Foothills - Conventional - Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	129.06	0.14	0.12	25	0.10	60
2003	133.12	0.14	0.12	25	0.10	60
2004	78.61	0.14	0.12	25	0.10	60
2005	41.88	0.14	0.12	25	0.10	60
2006	31.76	0.14	0.12	25	0.12	60
2007	32.44	0.14	0.12	25	0.10	60
2008	51.10	0.14	0.12	25	0.10	60
2009	29.96	0.14	0.12	25	0.10	60
2010	2.73	0.14	0.12	25	0.10	60

Resource Grouping - Gas - Central Foothills - Conventional - Upper Devonian, Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	40.63	0.16	0.14	25	0.12	60
2003	68.79	0.16	0.14	25	0.12	60
2004	31.29	0.16	0.14	25	0.12	60
2005	113.51	0.16	0.14	25	0.12	60
2006	8.12	0.16	0.14	25	0.12	60
2007	5.60	0.16	0.14	25	0.12	60
2008	5.55	0.16	0.14	25	0.12	60
2009	2.28	0.16	0.14	25	0.12	60
2010	0.00	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Central Foothills - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2003	0.34	0.16	0.14	25	0.12	60
2004	2.54	0.16	0.14	25	0.12	60
2005	3.05	0.16	0.14	25	0.12	60
2006	0.56	0.16	0.14	25	0.12	60
2007	3.33	0.16	0.14	25	0.12	60
2008	0.66	0.16	0.14	25	0.12	60
2009	2.13	0.16	0.14	25	0.12	60
2010	0.00	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Central Foothills - Tight - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2003	1.67	0.16	0.14	25	0.12	60
2004	0.54	0.16	0.14	25	0.12	60
2005	0.46	0.16	0.14	25	0.12	60
2006	1.77	0.16	0.14	25	0.12	60
2007	1.55	0.16	0.14	25	0.12	60
2008	0.20	0.16	0.14	25	0.12	60
2009	0.00	0.16	0.14	25	0.12	60
2010	0.00	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Central Foothills - Tight - Jurassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2007	9.02	0.16	0.14	25	0.12	60
2008	22.58	0.16	0.14	25	0.12	60
2009	6.09	0.16	0.14	25	0.12	60
2010	0.00	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Kaybob - Conventional - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	3.69	0.16	0.14	25	0.12	60
2003	4.44	0.16	0.14	25	0.12	60
2004	5.65	0.16	0.14	25	0.12	60
2005	10.96	0.16	0.14	25	0.12	60
2006	13.74	0.16	0.14	25	0.12	60
2007	9.45	0.16	0.14	25	0.12	60
2008	5.43	0.16	0.14	25	0.12	60
2009	5.63	0.16	0.14	25	0.12	60
2010	5.10	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Kaybob - Conventional - Mannville, Jurassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	9.95	0.16	0.14	25	0.12	60
2003	18.96	0.16	0.14	25	0.12	60
2004	13.47	0.16	0.14	25	0.12	60
2005	28.72	0.16	0.14	25	0.12	60
2006	33.81	0.16	0.14	25	0.12	60
2007	31.98	0.16	0.14	25	0.12	60
2008	45.72	0.16	0.14	25	0.12	60
2009	34.69	0.16	0.14	25	0.12	60
2010	15.11	0.16	0.14	25	0.12	60

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
2002	18.56	0.16	0.14	25	0.12	60
2003	17.52	0.16	0.14	25	0.12	60
2004	8.48	0.16	0.14	25	0.12	60
2005	19.34	0.16	0.14	25	0.12	60
2006	11.43	0.16	0.14	25	0.12	60
2007	10.82	0.16	0.14	25	0.12	60
2008	13.73	0.16	0.14	25	0.12	60
2009	15.36	0.16	0.14	25	0.12	60
2010	2.27	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Kaybob - Conventional - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2003	10.77	0.16	0.10	25	0.05	60
2004	0.03	0.16	0.14	25	0.12	60
2005	0.13	0.16	0.14	25	0.12	60
2006	3.31	0.16	0.14	25	0.12	60
2007	4.64	0.16	0.14	25	0.12	60
2008	4.38	0.16	0.14	25	0.12	60
2009	9.75	0.16	0.14	25	0.12	60
2010	24.05	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Kaybob - Tight - Colorado, Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	22.19	0.16	0.14	25	0.12	60
2003	30.54	0.16	0.14	25	0.12	60
2004	45.60	0.16	0.14	25	0.12	60
2005	35.36	0.16	0.14	25	0.12	60
2006	69.78	0.16	0.14	25	0.12	60
2007	49.75	0.16	0.14	25	0.12	60
2008	49.01	0.16	0.14	25	0.12	60
2009	58.59	0.16	0.14	25	0.12	60
2010	45.67	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Kaybob - Tight - Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	8.86	0.10	0.08	25	0.05	60
2003	7.54	0.10	0.08	25	0.05	60
2004	7.95	0.10	0.08	25	0.05	60
2005	11.26	0.10	0.08	25	0.05	60
2006	12.40	0.10	0.08	25	0.05	60
2007	17.32	0.10	0.08	25	0.05	60
2008	10.27	0.10	0.08	25	0.05	60
2009	19.33	0.10	0.08	25	0.05	60
2010	28.88	0.10	0.08	25	0.05	60

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Cretaceous						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	8.24	0.10	0.08	25	0.05	60
2003	10.96	0.10	0.08	25	0.05	60
2004	7.60	0.10	0.08	25	0.05	60
2005	8.43	0.10	0.08	25	0.05	60
2006	4.14	0.10	0.08	25	0.05	60
2007	3.46	0.10	0.08	25	0.05	60
2008	4.31	0.10	0.08	25	0.05	45
2009	5.48	0.10	0.08	25	0.05	45
2010	4.61	0.10	0.08	25	0.05	45

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	13.06	0.12	0.10	25	0.08	60
2003	13.48	0.12	0.10	25	0.08	60
2004	14.54	0.12	0.10	25	0.08	60
2005	14.34	0.12	0.10	25	0.08	60
2006	19.51	0.12	0.10	25	0.08	60
2007	9.68	0.12	0.10	25	0.08	60
2008	9.35	0.12	0.10	25	0.08	45
2009	2.70	0.12	0.10	25	0.08	45
2010	10.51	0.12	0.10	25	0.08	45

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
2002	0.49	0.10	0.08	25	0.05	60
2003	1.59	0.10	0.08	25	0.05	60
2004	3.76	0.10	0.08	25	0.05	60
2005	3.02	0.10	0.08	25	0.05	60
2006	5.19	0.10	0.08	25	0.05	60
2007	4.19	0.10	0.08	25	0.05	60
2008	7.67	0.10	0.08	25	0.05	45
2009	4.46	0.10	0.08	25	0.05	45
2010	11.32	0.10	0.08	25	0.05	45

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	8.97	0.10	0.08	25	0.05	60
2003	10.17	0.10	0.08	25	0.05	60
2004	12.34	0.10	0.08	25	0.05	60
2005	11.12	0.10	0.08	25	0.05	60
2006	9.79	0.10	0.08	25	0.05	60
2007	3.87	0.10	0.08	25	0.05	60
2008	2.83	0.10	0.08	25	0.05	45
2009	6.04	0.10	0.08	20	0.05	40
2010	9.98	0.10	0.08	25	0.05	60

Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	12.54	0.16	0.14	25	0.12	60
2003	4.13	0.16	0.14	25	0.12	60
2004	16.19	0.16	0.14	25	0.12	60
2005	6.12	0.16	0.14	25	0.12	60
2006	0.32	0.16	0.14	25	0.12	60
2007	15.31	0.16	0.14	25	0.12	60
2008	0.38	0.16	0.14	25	0.12	60
2009	4.88	0.16	0.14	25	0.12	60
2010	3.54	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Alberta Deep Basin - Tight - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	31.32	0.16	0.14	25	0.12	60
2003	26.27	0.16	0.14	25	0.12	60
2004	58.70	0.16	0.14	25	0.12	60
2005	64.79	0.16	0.14	25	0.12	60
2006	66.36	0.16	0.14	25	0.12	60
2007	48.05	0.16	0.14	25	0.12	60
2008	36.02	0.16	0.14	25	0.12	60
2009	40.75	0.16	0.14	25	0.12	60
2010	50.02	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Alberta Deep Basin - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	11.31	0.14	0.12	25	0.10	60
2003	16.84	0.14	0.12	25	0.10	60
2004	11.28	0.14	0.12	25	0.10	60
2005	9.59	0.14	0.12	25	0.10	60
2006	13.94	0.14	0.12	25	0.10	60
2007	19.99	0.14	0.12	25	0.10	60
2008	21.77	0.14	0.12	25	0.10	60
2009	8.46	0.14	0.12	25	0.10	60
2010	10.59	0.14	0.12	25	0.10	60

Resource Grouping - Gas - Alberta Deep Basin - Tight - Mannville, Jurassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	59.69	0.14	0.12	25	0.10	60
2003	111.76	0.14	0.12	25	0.10	60
2004	169.36	0.14	0.12	25	0.10	60
2005	211.42	0.14	0.12	25	0.10	60
2006	300.89	0.14	0.12	25	0.10	60
2007	259.13	0.14	0.12	25	0.10	60
2008	310.64	0.14	0.12	25	0.10	60
2009	223.56	0.14	0.12	25	0.10	60
2010	291.44	0.14	0.12	25	0.10	60

Resource Grouping - Gas - Alberta Deep Basin - Tight - Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	2.92	0.10	0.08	25	0.05	60
2003	3.50	0.10	0.08	25	0.05	60
2004	5.23	0.10	0.08	25	0.05	60
2005	9.30	0.10	0.08	25	0.05	60
2006	6.83	0.10	0.08	25	0.05	60
2007	1.91	0.10	0.08	25	0.05	60
2008	7.76	0.10	0.08	25	0.05	60
2009	16.68	0.10	0.08	25	0.05	60
2010	45.57	0.10	0.08	25	0.05	60

Resource Grouping - Gas - Northeast Alberta - Conventional - Mannville, Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	108.92	0.20	0.18	25	0.16	60
2003	111.77	0.20	0.18	25	0.16	60
2004	109.84	0.20	0.18	25	0.16	60
2005	84.18	0.20	0.18	25	0.16	60
2006	92.08	0.20	0.18	25	0.16	60
2007	86.98	0.20	0.18	25	0.16	60
2008	58.53	0.20	0.18	25	0.16	60
2009	44.71	0.20	0.18	25	0.16	60
2010	32.83	0.20	0.18	25	0.16	60

Resource Grouping - Gas - Peace River - Conventional - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	0.46	0.24	0.22	25	0.20	60
2003	3.25	0.24	0.22	25	0.20	60
2004	4.74	0.24	0.22	25	0.20	60
2005	8.33	0.24	0.22	25	0.20	60
2006	2.33	0.24	0.22	25	0.20	60
2007	3.75	0.16	0.14	25	0.12	60
2008	0.68	0.16	0.14	25	0.12	60
2009	0.48	0.16	0.14	25	0.12	60
2010	0.00	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Peace River - Conventional - Colorado, Upper Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	0.94	0.22	0.20	25	0.18	60
2003	2.46	0.22	0.20	25	0.18	60
2004	4.83	0.22	0.20	25	0.18	60
2005	10.79	0.22	0.20	25	0.18	60
2006	6.75	0.22	0.20	25	0.18	60
2007	7.42	0.22	0.20	25	0.18	60
2008	5.26	0.22	0.20	25	0.18	60
2009	3.47	0.22	0.20	25	0.18	60
2010	11.50	0.22	0.20	25	0.18	60

Resource Grouping - Gas - Peace River - Conventional - Middle Mannville, Lower Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	5.64	0.16	0.14	25	0.12	60
2003	7.27	0.16	0.14	25	0.12	60
2004	8.06	0.16	0.14	25	0.12	60
2005	8.57	0.16	0.14	25	0.12	60
2006	17.14	0.16	0.14	25	0.12	60
2007	12.10	0.16	0.14	25	0.12	60
2008	15.19	0.16	0.14	25	0.12	60
2009	7.48	0.16	0.14	25	0.12	60
2010	10.31	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Peace River - Conventional - Upper Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	2.98	0.20	0.16	25	0.12	60
2003	7.35	0.16	0.14	25	0.12	60
2004	6.39	0.16	0.14	25	0.12	60
2005	3.31	0.20	0.18	25	0.16	60
2006	9.46	0.20	0.18	25	0.16	60
2007	4.74	0.20	0.18	25	0.16	60
2008	4.18	0.20	0.18	25	0.16	60
2009	6.83	0.20	0.18	25	0.16	60
2010	4.11	0.20	0.18	25	0.16	60

Resource Grouping - Gas - Peace River - Conventional - Lower Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	4.22	0.16	0.14	25	0.12	60
2003	3.71	0.16	0.14	25	0.12	60
2004	5.76	0.16	0.14	25	0.12	60
2005	4.71	0.16	0.14	25	0.12	60
2006	16.88	0.16	0.14	25	0.12	60
2007	9.36	0.16	0.14	25	0.12	60
2008	17.93	0.16	0.14	25	0.12	60
2009	29.33	0.16	0.14	25	0.12	60
2010	47.74	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Peace River - Conventional - Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	8.55	0.16	0.14	25	0.12	60
2003	20.70	0.16	0.14	25	0.12	60
2004	37.52	0.16	0.14	25	0.12	60
2005	35.75	0.16	0.14	25	0.12	60
2006	19.37	0.16	0.14	25	0.12	60
2007	10.52	0.16	0.14	25	0.12	60
2008	32.72	0.16	0.14	25	0.12	60
2009	12.16	0.16	0.14	25	0.12	60
2010	12.28	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Peace River - Conventional - Upper Devonian, Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	5.79	0.16	0.14	25	0.12	60
2003	1.22	0.16	0.14	25	0.12	60
2004	3.07	0.16	0.14	25	0.12	60
2005	2.95	0.16	0.14	25	0.12	60
2006	1.61	0.16	0.14	25	0.12	60
2007	0.88	0.16	0.14	25	0.12	60
2008	0.20	0.16	0.14	25	0.12	60
2009	0.53	0.16	0.14	25	0.12	60
2010	0.24	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Peace River - Tight - Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	0.63	0.16	0.14	25	0.12	60
2003	0.43	0.16	0.14	25	0.12	60
2004	2.47	0.16	0.14	25	0.12	60
2005	3.07	0.16	0.14	25	0.12	60
2006	1.93	0.16	0.14	25	0.12	60
2007	2.18	0.16	0.14	25	0.12	60
2008	8.17	0.16	0.14	25	0.12	60
2009	3.72	0.16	0.14	25	0.12	60
2010	37.57	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Peace River - Tight - Lower Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	7.52	0.16	0.14	25	0.12	60
2003	4.64	0.16	0.14	25	0.12	60
2004	3.53	0.16	0.14	25	0.12	60
2005	5.72	0.16	0.14	25	0.12	60
2006	11.40	0.16	0.14	25	0.12	60
2007	10.68	0.16	0.14	25	0.12	60
2008	23.54	0.16	0.14	25	0.12	60
2009	31.04	0.16	0.14	25	0.12	60
2010	41.00	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Northwest Alberta - Conventional - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	26.49	0.16	0.14	25	0.12	60
2003	31.15	0.16	0.14	25	0.12	60
2004	34.85	0.16	0.14	25	0.12	60
2005	28.92	0.16	0.14	25	0.12	60
2006	35.41	0.16	0.14	25	0.12	60
2007	15.51	0.16	0.14	25	0.12	60
2008	28.86	0.16	0.14	25	0.12	60
2009	6.98	0.16	0.14	25	0.12	60
2010	6.02	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Northwest Alberta - Conventional - Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	13.18	0.16	0.14	25	0.12	60
2003	10.26	0.16	0.14	25	0.12	60
2004	9.92	0.16	0.14	25	0.12	60
2005	17.36	0.16	0.14	25	0.12	60
2006	13.36	0.16	0.14	25	0.12	60
2007	6.04	0.16	0.14	25	0.12	60
2008	11.40	0.16	0.14	25	0.12	60
2009	1.48	0.16	0.14	25	0.12	60
2010	1.02	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Northwest Alberta - Conventional - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	21.72	0.16	0.14	25	0.12	60
2003	22.10	0.16	0.14	25	0.12	60
2004	20.03	0.16	0.14	25	0.12	60
2005	8.02	0.16	0.14	25	0.12	60
2006	15.63	0.16	0.14	25	0.12	60
2007	6.47	0.16	0.14	25	0.12	60
2008	4.63	0.16	0.14	25	0.12	60
2009	5.04	0.16	0.14	25	0.12	60
2010	2.22	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Northwest Alberta - Conventional - Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	1.75	0.22	0.20	25	0.18	60
2003	2.52	0.22	0.20	25	0.18	60
2004	3.62	0.22	0.20	25	0.18	60
2005	3.40	0.22	0.20	25	0.18	60
2006	2.38	0.22	0.20	25	0.18	60
2007	0.91	0.22	0.20	25	0.18	60
2008	5.42	0.22	0.20	25	0.18	60
2009	6.89	0.22	0.20	25	0.18	60
2010	1.64	0.22	0.20	25	0.18	60

Resource Grouping - Gas - BC Deep Basin - Conventional - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	3.71	0.16	0.14	25	0.12	60
2003	2.78	0.16	0.14	25	0.12	60
2004	27.26	0.16	0.14	25	0.12	60
2005	11.72	0.16	0.14	25	0.12	60
2006	0.53	0.16	0.14	25	0.12	60
2007	0.10	0.16	0.14	25	0.12	60
2008	0.26	0.16	0.14	25	0.12	60
2009	0.46	0.16	0.14	25	0.12	60
2010	0.46	0.16	0.14	25	0.12	60

Resource Grouping - Gas - BC Deep Basin - Conventional - Lower Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2004	0.63	0.16	0.14	25	0.12	60
2005	15.90	0.16	0.14	25	0.12	60
2006	5.34	0.16	0.14	25	0.12	60
2007	18.42	0.16	0.14	25	0.12	60
2008	10.70	0.16	0.14	25	0.12	60
2009	30.46	0.16	0.14	25	0.12	60
2010	36.10	0.16	0.14	25	0.12	60

Resource Grouping - Gas - BC Deep Basin - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	10.14	0.10	0.08	25	0.05	60
2003	4.50	0.10	0.08	25	0.05	60
2004	1.69	0.10	0.08	25	0.05	60
2005	1.14	0.10	0.08	25	0.05	60
2006	4.34	0.10	0.08	25	0.05	60
2007	1.30	0.10	0.08	25	0.05	60
2008	11.31	0.10	0.08	25	0.05	60
2009	3.47	0.10	0.08	25	0.05	60
2010	0.01	0.10	0.08	25	0.05	60

Resource Grouping - Gas - BC Deep Basin - Tight - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	0.66	0.16	0.14	25	0.12	60
2003	24.11	0.16	0.14	25	0.12	60
2004	27.50	0.16	0.14	25	0.12	60
2005	30.41	0.16	0.14	25	0.12	60
2006	91.80	0.16	0.14	25	0.12	60
2007	73.79	0.16	0.14	25	0.12	60
2008	144.96	0.16	0.14	25	0.12	60
2009	57.28	0.16	0.14	25	0.12	60
2010	59.22	0.16	0.14	25	0.12	60

Resource Grouping - Gas - BC Deep Basin - Tight - Lower Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2006	6.98	0.16	0.14	25	0.12	60
2007	6.13	0.16	0.14	25	0.12	60
2008	7.57	0.16	0.14	25	0.12	60
2009	10.82	0.16	0.14	25	0.12	60
2010	18.36	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Fort St John - Conventional - Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	50.65	0.22	0.20	25	0.18	60
2003	63.51	0.22	0.20	25	0.18	60
2004	197.98	0.22	0.20	25	0.18	60
2005	172.70	0.22	0.20	25	0.18	60
2006	180.92	0.22	0.20	25	0.18	60
2007	100.81	0.22	0.20	25	0.18	60
2008	161.12	0.22	0.20	25	0.18	60
2009	44.03	0.22	0.20	25	0.18	60
2010	13.36	0.22	0.20	25	0.18	60

Resource Grouping - Gas - Fort St John - Conventional - Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	64.28	0.16	0.14	25	0.12	60
2003	62.66	0.16	0.14	25	0.12	60
2004	95.88	0.16	0.14	25	0.12	60
2005	80.47	0.16	0.14	25	0.12	60
2006	118.72	0.16	0.14	25	0.12	60
2007	177.43	0.16	0.14	25	0.12	60
2008	138.30	0.16	0.14	25	0.12	60
2009	71.22	0.16	0.14	25	0.12	60
2010	29.26	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Fort St John - Conventional - Permian, Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	6.53	0.16	0.14	25	0.12	60
2003	8.90	0.16	0.14	25	0.12	60
2004	5.87	0.16	0.14	25	0.12	60
2005	5.81	0.16	0.14	25	0.12	60
2006	15.12	0.16	0.14	25	0.12	60
2007	18.49	0.16	0.14	25	0.12	60
2008	12.02	0.16	0.14	25	0.12	60
2009	9.24	0.16	0.14	25	0.12	60
2010	5.04	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Fort St John - Conventional - Upper Devonian, Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	12.09	0.24	0.22	25	0.20	60
2003	60.19	0.16	0.14	25	0.12	60
2004	12.92	0.14	0.12	25	0.10	60
2005	5.25	0.16	0.14	25	0.12	60
2006	6.12	0.16	0.14	25	0.12	60
2007	2.54	0.16	0.14	25	0.12	60
2008	0.00	0.00	0.00	0	0.00	0
2009	0.00	0.00	0.00	0	0.00	0
2010	0.70	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Fort St John - Tight - Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2006	20.67	0.16	0.14	25	0.12	60
2007	27.00	0.16	0.14	25	0.12	60
2008	35.93	0.16	0.14	25	0.12	60
2009	57.52	0.16	0.14	25	0.12	60
2010	92.28	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Northeast BC - Conventional - Lower Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	0.00	0.00	0.00	0	0.00	0
2003	0.00	0.00	0.00	0	0.00	0
2004	0.00	0.00	0.00	0	0.00	0
2005	0.20	0.16	0.14	25	0.12	60
2006	0.05	0.16	0.14	25	0.12	60
2007	0.00	0.00	0.00	0	0.00	0
2008	0.00	0.00	0.00	0	0.00	0
2009	0.00	0.00	0.00	0	0.00	0
2010	0.00	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Northeast BC - Conventional - Permian, Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	6.43	0.20	0.18	25	0.16	60
2003	3.15	0.16	0.14	25	0.12	60
2004	8.25	0.16	0.14	25	0.12	60
2005	15.76	0.16	0.14	25	0.12	60
2006	5.70	0.16	0.14	25	0.12	60
2007	8.10	0.10	0.08	25	0.05	60
2008	1.95	0.16	0.14	25	0.12	60
2009	1.54	0.16	0.14	25	0.12	60
2010	0.29	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Northeast BC - Conventional - Upper Devonian, Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	6.72	0.16	0.14	25	0.12	60
2003	72.66	0.16	0.14	25	0.12	60
2004	24.15	0.16	0.14	25	0.12	60
2005	148.51	0.16	0.14	25	0.12	60
2006	119.88	0.10	0.08	25	0.05	60
2007	0.80	0.16	0.14	25	0.12	60
2008	8.81	0.16	0.14	25	0.12	60
2009	1.38	0.16	0.14	25	0.12	60
2010	0.02	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Northeast BC - Tight - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	30.25	0.16	0.14	25	0.12	60
2003	101.25	0.16	0.14	25	0.12	60
2004	130.29	0.16	0.14	25	0.12	60
2005	108.14	0.16	0.14	25	0.12	60
2006	76.60	0.16	0.14	25	0.12	60
2007	16.20	0.16	0.14	25	0.12	60
2008	25.60	0.16	0.14	25	0.12	60
2009	7.90	0.16	0.14	25	0.12	60
2010	24.88	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Northeast BC - Shale - Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2006	60.72	0.16	0.14	25	0.12	60
2007	86.22	0.16	0.14	25	0.12	60
2008	117.40	0.16	0.14	25	0.12	60
2009	68.67	0.16	0.14	25	0.12	60
2010	235.27	0.16	0.14	25	0.12	60

Resource Grouping - Gas - BC Foothills - Conventional - Colorado, Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2004	11.01	0.16	0.14	25	0.12	60
2005	7.50	0.16	0.14	25	0.12	60
2006	5.16	0.16	0.14	25	0.12	60
2007	16.72	0.16	0.14	25	0.12	60
2008	17.94	0.16	0.14	25	0.12	60
2009	38.05	0.16	0.14	25	0.12	60
2010	56.76	0.16	0.14	25	0.12	60

Resource Grouping - Gas - BC Foothills - Conventional - Triassic, Permian, Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	7.04	0.16	0.14	25	0.12	60
2003	57.49	0.16	0.14	25	0.12	60
2004	59.41	0.16	0.14	25	0.12	60
2005	84.35	0.10	0.08	25	0.05	60
2006	181.03	0.14	0.12	25	0.10	60
2007	68.11	0.16	0.14	25	0.12	60
2008	117.76	0.16	0.14	25	0.12	60
2009	71.59	0.16	0.14	25	0.12	60
2010	7.29	0.16	0.14	25	0.12	60

Resource Grouping - Gas - BC Foothills - Tight - Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	4.17	0.10	0.08	25	0.05	60
2003	9.37	0.16	0.14	25	0.12	60
2004	8.25	0.16	0.14	25	0.12	60
2005	3.30	0.16	0.14	25	0.12	60
2006	14.20	0.16	0.14	25	0.12	60
2007	11.97	0.16	0.14	25	0.12	60
2008	41.37	0.16	0.14	25	0.12	60
2009	26.80	0.16	0.14	25	0.12	60
2010	114.51	0.16	0.14	25	0.12	60

Resource Grouping - Gas - BC Foothills - Tight - Lower Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	1.97	0.10	0.08	25	0.05	60
2003	0.00	0.00	0.00	0	0.00	0
2004	4.10	0.10	0.08	25	0.05	60
2005	10.23	0.16	0.14	25	0.12	60
2006	0.00	0.00	0.00	0	0.00	0
2007	11.53	0.16	0.14	25	0.12	60
2008	0.00	0.00	0.00	0	0.00	0
2009	0.14	0.16	0.14	25	0.12	60
2010	4.80	0.16	0.14	25	0.12	60

Resource Grouping - Gas - Southwest Saskatchewan - Tight - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	57.87	0.16	0.14	25	0.12	60
2003	67.40	0.16	0.14	25	0.12	60
2004	62.12	0.16	0.14	25	0.12	60
2005	54.07	0.16	0.14	25	0.12	60
2006	55.25	0.16	0.14	25	0.12	60
2007	53.47	0.16	0.14	25	0.12	60
2008	57.86	0.16	0.14	25	0.12	60
2009	28.59	0.16	0.14	25	0.12	60
2010	13.09	0.16	0.14	25	0.12	60

Resource Grouping - Gas - West Saskatchewan - Conventional - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	0.80	0.16	0.14	25	0.12	60
2003	4.26	0.16	0.14	25	0.12	60
2004	9.16	0.16	0.14	25	0.12	60
2005	10.53	0.16	0.14	25	0.12	60
2006	7.82	0.16	0.14	25	0.12	60
2007	5.63	0.16	0.14	25	0.12	60
2008	6.18	0.16	0.14	25	0.12	60
2009	4.64	0.16	0.14	25	0.12	60
2010	0.70	0.16	0.14	25	0.12	60

Resource Grouping - Gas - West Saskatchewan - Conventional - Middle Mannville, Lower Mannville, Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2010 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	9.01	0.16	0.14	25	0.12	60
2003	8.11	0.16	0.14	25	0.12	60
2004	10.47	0.16	0.14	25	0.12	60
2005	9.02	0.16	0.14	25	0.12	60
2006	13.05	0.16	0.14	25	0.12	60
2007	14.96	0.16	0.14	25	0.12	60
2008	7.83	0.16	0.14	25	0.12	60
2009	8.68	0.16	0.14	25	0.12	60
2010	4.83	0.16	0.14	25	0.12	60

A4 Decline Parameters for Groupings of Future Gas Connections¹

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
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
2014	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
2005	0.09	0.25	0.16	7.00	0.17	20.00	0.12	45.00	0.10	90.00
2006	0.09	0.25	0.18	7.00	0.16	20.00	0.12	45.00	0.10	90.00
2007	0.10	0.50	0.20	7.00	0.16	20.00	0.12	45.00	0.10	90.00
2008	0.09	0.40	0.20	7.00	0.16	20.00	0.14	45.00	0.10	90.00
2009	0.08	0.45	0.30	7.00	0.20	20.00	0.14	45.00	0.10	90.00
2010	0.06	0.55	0.30	7.00	0.20	20.00	0.14	45.00	0.10	90.00
2011	0.06	0.45	0.30	7.00	0.16	20.00	0.14	45.00	0.10	90.00
2012	0.05	0.45	0.30	7.00	0.16	20.00	0.14	45.00	0.10	90.00
2013	0.04	0.45	0.30	7.00	0.16	20.00	0.14	45.00	0.10	90.00
2014	0.04	0.45	0.30	7.00	0.16	20.00	0.14	45.00	0.10	90.00

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
2005	0.07	0.50	0.30	7.00	0.16	20.00	0.10	45.00	0.05	90.00
2006	0.08	0.80	0.30	7.00	0.16	20.00	0.10	45.00	0.05	90.00
2007	0.08	0.75	0.30	7.00	0.16	20.00	0.10	45.00	0.05	90.00
2008	0.07	0.50	0.20	7.00	0.16	20.00	0.10	45.00	0.05	90.00
2009	0.03	0.40	0.25	7.00	0.16	20.00	0.10	45.00	0.05	90.00
2010	0.03	0.45	0.30	7.00	0.20	20.00	0.10	45.00	0.05	90.00
2011	0.04	0.45	0.30	7.00	0.20	20.00	0.10	45.00	0.05	90.00
2012	0.04	0.45	0.30	7.00	0.20	20.00	0.10	45.00	0.05	90.00
2013	0.04	0.45	0.30	7.00	0.20	20.00	0.10	45.00	0.05	90.00
2014	0.04	0.45	0.30	7.00	0.20	20.00	0.10	45.00	0.05	90.00

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
2002	0.17	1.15	0.37	7.00	0.22	20.00	0.18	45.00	0.12	90.00
2003	0.08	0.40	0.20	15.00	0.18	30.00	0.16	55.00	0.12	90.00
2004	0.14	0.85	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2005	0.08	0.70	0.45	7.00	0.22	20.00	0.18	45.00	0.12	90.00
2006	0.08	0.85	0.40	7.00	0.24	20.00	0.16	45.00	0.12	90.00
2007	0.09	0.60	0.42	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2008	0.09	0.55	0.45	10.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	0.09	0.75	0.45	8.00	0.25	20.00	0.18	45.00	0.12	90.00
2010	0.12	0.75	0.40	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2011	0.10	0.75	0.40	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2012	0.10	0.75	0.40	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2013	0.10	0.75	0.40	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2014	0.10	0.75	0.40	7.00	0.25	20.00	0.18	45.00	0.12	90.00

¹ Decline parameters by connection for existing wells connected between 2002 and 2010 are provided to indicate trends

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
2002	0.45	1.25	0.95	7.00	0.45	20.00	0.16	45.00	0.12	90.00
2003	0.24	1.15	0.85	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2004	0.26	1.15	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2005	0.23	0.85	0.60	10.00	0.50	20.00	0.25	45.00	0.12	90.00
2006	0.16	1.25	0.75	7.00	0.40	30.00	0.20	50.00	0.12	90.00
2007	0.13	0.85	0.70	10.00	0.30	20.00	0.20	45.00	0.12	90.00
2008	0.10	0.75	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.13	0.95	0.55	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2010	0.16	0.95	0.55	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2011	0.20	0.95	0.55	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2012	0.24	0.95	0.55	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2013	0.30	0.95	0.55	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2014	0.37	0.95	0.55	7.00	0.30	20.00	0.20	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
2002	0.55	0.95	0.65	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2003	0.34	0.50	0.45	7.00	0.42	20.00	0.20	45.00	0.12	90.00
2004	0.36	0.70	0.55	7.00	0.38	20.00	0.20	45.00	0.12	90.00
2005	0.31	0.55	0.65	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2006	0.24	0.53	0.60	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2007	0.22	0.40	0.50	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2008	0.36	0.70	0.50	10.00	0.30	20.00	0.20	45.00	0.12	90.00
2009	0.27	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	0.26	0.75	0.40	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2011	0.24	0.75	0.40	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2012	0.22	0.75	0.40	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2013	0.21	0.75	0.40	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2014	0.20	0.75	0.40	7.00	0.30	20.00	0.20	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
2002	0.09	0.80	0.35	7.00	0.16	20.00	0.14	45.00	0.12	90.00
2003	0.08	0.60	0.35	7.00	0.18	20.00	0.16	45.00	0.12	90.00
2004	0.09	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2005	0.08	0.80	0.35	7.00	0.22	20.00	0.12	45.00	0.12	90.00
2006	0.09	0.85	0.38	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	0.09	0.70	0.45	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2008	0.08	0.80	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	0.08	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	0.10	0.75	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2011	0.10	0.75	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2012	0.10	0.75	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2013	0.11	0.75	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2014	0.11	0.75	0.40	7.00	0.20	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
2002	0.25	0.83	0.52	10.00	0.30	18.00	0.14	42.00	0.99	83.00
2003	0.20	0.90	0.40	7.00	0.22	20.00	0.16	45.00	0.99	68.00
2004	0.20	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	0.14	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	0.13	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	0.08	0.80	0.40	7.00	0.25	20.00	0.16	42.00	0.12	65.00
2011	0.08	0.80	0.40	7.00	0.25	20.00	0.16	42.00	0.12	65.00
2012	0.08	0.80	0.40	7.00	0.25	20.00	0.16	42.00	0.12	65.00
2013	0.07	0.80	0.40	7.00	0.25	20.00	0.16	42.00	0.12	65.00
2014	0.07	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
2002	0.30	1.05	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2003	0.21	0.30	0.40	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2004	0.20	0.65	0.70	7.00	0.50	20.00	0.25	45.00	0.12	90.00
2005	0.13	0.95	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2006	0.24	1.25	0.75	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	0.24	1.45	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	0.28	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.13	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.13	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.18	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.18	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.18	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	0.18	1.25	0.60	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
2002	0.78	1.05	0.50	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2003	0.65	0.20	0.25	7.00	0.65	20.00	0.33	45.00	0.12	90.00
2004	0.42	0.85	0.65	7.00	0.25	20.00	0.14	45.00	0.12	90.00
2005	0.61	1.15	0.75	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2006	0.43	0.85	0.80	7.00	0.45	20.00	0.27	45.00	0.12	90.00
2007	0.47	0.65	0.55	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2008	0.43	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	0.56	0.70	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	0.67	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.73	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.78	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.84	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	0.89	0.75	0.45	7.00	0.25	20.00	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
2002	0.77	0.65	0.90	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2003	0.48	0.75	0.70	7.00	0.20	20.00	0.12	45.00	0.12	90.00
2004	0.35	0.65	0.60	7.00	0.22	20.00	0.14	45.00	0.12	90.00
2005	0.53	1.35	0.83	7.00	0.27	20.00	0.14	45.00	0.12	90.00
2006	0.23	1.05	2.05	7.00	0.75	20.00	0.25	45.00	0.12	90.00
2007	0.34	1.05	0.78	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2008	0.82	1.05	0.95	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2009	1.01	0.85	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	0.91	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.91	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.91	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.91	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	0.91	0.95	0.60	7.00	0.30	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
2002	0.86	1.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2003	2.06	0.65	0.50	7.00	0.35	20.00	0.25	45.00	0.12	90.00
2004	1.20	0.65	0.20	7.00	0.16	20.00	0.14	45.00	0.12	90.00
2005	0.10	0.30	0.20	7.00	0.18	20.00	0.16	45.00	0.12	90.00
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	0.55	0.75	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	0.26	1.25	0.80	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2009	0.23	1.00	0.60	7.00	0.33	20.00	0.16	45.00	0.12	90.00
2010	0.20	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.17	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.15	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.13	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	0.12	0.75	0.40	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
2002	0.17	1.25	0.60	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2003	0.10	0.85	0.40	7.00	0.22	20.00	0.14	45.00	0.12	90.00
2004	0.17	0.85	0.55	7.00	0.50	20.00	0.16	45.00	0.12	90.00
2005	0.11	1.65	0.40	7.00	0.27	20.00	0.16	45.00	0.12	90.00
2006	0.06	1.25	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	0.14	1.35	0.65	7.00	0.30	20.00	0.18	45.00	0.12	90.00
2008	0.07	0.99	0.75	7.00	0.50	20.00	0.16	45.00	0.12	90.00
2009	0.27	1.25	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	0.17	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.17	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.17	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.17	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	0.17	1.25	0.60	7.00	0.30	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
2002	0.26	1.55	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2003	0.21	0.65	0.35	7.00	0.22	20.00	0.18	45.00	0.12	90.00
2004	0.34	1.10	0.50	7.00	0.45	20.00	0.16	45.00	0.12	90.00
2005	0.19	0.75	0.55	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2006	0.13	1.45	0.60	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2007	0.35	0.60	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	0.40	0.85	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	0.36	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	0.37	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.37	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.37	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.37	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	0.37	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00

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
2002	1.04	0.85	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2003	0.66	0.45	0.25	7.00	0.20	20.00	0.12	45.00	0.12	90.00
2004	0.59	0.35	0.20	7.00	0.18	20.00	0.16	45.00	0.12	90.00
2005	0.72	0.95	0.45	7.00	0.16	20.00	0.14	45.00	0.12	90.00
2006	1.00	0.75	0.45	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2007	0.64	0.75	0.45	7.00	0.28	20.00	0.16	45.00	0.12	90.00
2008	0.42	0.65	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.39	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.43	0.95	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.43	0.95	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.43	0.95	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.44	0.95	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	0.45	0.95	0.50	7.00	0.25	20.00	0.16	45.00	0.12	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
2002	3.93	0.10	0.12	7.00	0.12	20.00	0.12	45.00	0.12	90.00
2003	1.90	0.55	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2004	3.52	0.25	0.20	7.00	0.18	20.00	0.16	45.00	0.12	90.00
2005	1.71	0.40	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2006	2.41	0.45	0.35	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2007	1.61	0.40	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2008	2.15	0.25	0.20	7.00	0.18	20.00	0.16	45.00	0.12	90.00
2009	6.82	0.65	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	3.53	0.50	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	3.53	0.50	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	3.53	0.50	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	3.53	0.50	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	3.53	0.50	0.40	7.00	0.25	20.00	0.16	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
2002	0.17	0.95	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2003	0.12	0.75	0.45	7.00	0.32	20.00	0.20	45.00	0.12	90.00
2004	0.11	1.05	0.35	7.00	0.30	20.00	0.25	45.00	0.12	90.00
2005	0.10	0.95	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2006	0.04	1.05	0.45	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2007	0.05	0.70	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	0.06	0.95	0.35	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	0.11	0.95	0.45	10.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.16	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.20	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.25	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.29	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	0.33	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	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
2002	0.36	0.75	0.45	7.00	0.34	20.00	0.20	45.00	0.12	90.00
2003	0.23	0.85	0.48	7.00	0.32	20.00	0.20	45.00	0.12	90.00
2004	0.20	0.95	0.50	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2005	0.19	0.90	0.50	7.00	0.32	20.00	0.16	45.00	0.12	90.00
2006	0.18	0.90	0.40	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2007	0.20	0.99	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2008	0.20	1.05	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.20	0.95	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.14	0.95	0.55	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2011	0.18	0.95	0.55	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2012	0.18	0.95	0.55	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2013	0.18	0.95	0.55	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2014	0.18	0.95	0.55	7.00	0.35	20.00	0.16	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
2002	0.05	0.95	0.32	7.00	0.18	20.00	0.12	45.00	0.12	90.00
2003	0.07	0.65	0.48	7.00	0.18	20.00	0.14	45.00	0.12	90.00
2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.07	0.80	0.50	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2006	0.06	0.75	0.40	7.00	0.25	20.00	0.20	45.00	0.12	90.00
2007	0.04	1.05	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2008	0.06	0.75	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	0.06	1.75	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.05	1.40	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.05	1.40	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.05	1.40	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.05	1.40	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	0.05	1.40	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00

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
2002	0.25	1.20	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2003	0.20	0.75	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2004	0.18	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2005	0.15	0.95	0.52	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	0.11	0.80	0.45	7.00	0.23	20.00	0.16	45.00	0.12	90.00
2007	0.15	0.65	0.42	7.00	0.28	20.00	0.16	45.00	0.12	90.00
2008	0.14	0.75	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.12	0.95	0.70	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2010	0.11	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.09	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.08	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.07	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	0.06	0.95	0.60	7.00	0.30	20.00	0.16	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
2002	0.25	0.95	0.65	7.00	0.25	20.00	0.14	45.00	0.12	90.00
2003	0.16	0.65	0.48	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2004	0.28	1.15	0.55	7.00	0.27	20.00	0.16	45.00	0.12	90.00
2005	0.22	1.15	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2006	0.11	0.70	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2007	0.15	0.50	0.30	7.00	0.23	20.00	0.16	45.00	0.12	90.00
2008	0.13	1.05	0.50	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2009	0.17	1.65	0.75	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.12	1.05	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.14	1.05	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.14	1.05	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.14	1.05	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	0.14	1.05	0.65	7.00	0.30	20.00	0.16	45.00	0.12	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
2002	0.46	0.85	0.50	7.00	0.30	20.00	0.25	45.00	0.12	90.00
2003	0.43	0.85	0.60	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2004	0.40	0.85	0.58	7.00	0.33	20.00	0.30	45.00	0.12	90.00
2005	0.33	0.85	0.53	7.00	0.35	20.00	0.25	45.00	0.12	90.00
2006	0.33	0.65	0.48	7.00	0.40	20.00	0.25	45.00	0.12	90.00
2007	0.32	0.85	0.55	7.00	0.35	20.00	0.25	45.00	0.12	90.00
2008	0.28	0.95	0.60	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2009	0.27	0.85	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.29	0.85	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2011	0.30	0.85	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2012	0.31	0.85	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2013	0.32	0.85	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2014	0.33	0.85	0.65	7.00	0.35	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
2002	0.46	0.85	0.50	7.00	0.27	20.00	0.20	45.00	0.12	90.00
2003	0.79	0.85	0.40	7.00	0.26	20.00	0.23	45.00	0.12	90.00
2004	0.57	0.40	0.30	7.00	0.50	20.00	0.40	45.00	0.12	90.00
2005	0.42	1.15	0.65	7.00	0.25	20.00	0.20	45.00	0.12	90.00
2006	0.27	1.25	0.60	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2007	0.39	1.05	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	0.30	0.85	0.55	7.00	0.30	25.00	0.16	50.00	0.12	90.00
2009	0.18	0.95	0.75	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2010	0.10	0.95	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.08	0.95	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.07	0.95	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.06	0.95	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	0.05	0.95	0.50	7.00	0.30	20.00	0.16	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
2002	0.31	1.15	0.40	7.00	0.16	20.00	0.17	45.00	0.05	90.00
2003	0.27	0.65	0.40	7.00	0.18	20.00	0.14	45.00	0.05	90.00
2004	0.33	1.15	0.60	7.00	0.22	20.00	0.14	45.00	0.05	90.00
2005	0.31	1.15	0.40	7.00	0.20	20.00	0.07	45.00	0.05	90.00
2006	0.20	0.65	0.40	7.00	0.22	20.00	0.12	45.00	0.05	90.00
2007	0.24	0.95	0.60	7.00	0.30	20.00	0.12	45.00	0.05	90.00
2008	0.13	1.05	0.60	7.00	0.25	20.00	0.12	45.00	0.05	90.00
2009	0.17	0.95	0.60	7.00	0.30	20.00	0.12	45.00	0.05	90.00
2010	0.17	1.05	0.60	7.00	0.25	20.00	0.12	45.00	0.05	90.00
2011	0.17	1.05	0.60	7.00	0.25	20.00	0.12	45.00	0.05	90.00
2012	0.17	1.05	0.60	7.00	0.25	20.00	0.12	45.00	0.05	90.00
2013	0.17	1.05	0.60	7.00	0.25	20.00	0.12	45.00	0.05	90.00
2014	0.17	1.05	0.60	7.00	0.25	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
2002	0.44	0.75	0.55	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2003	0.31	0.45	0.30	7.00	0.22	20.00	0.20	45.00	0.12	90.00
2004	0.65	1.20	0.55	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2005	0.27	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	0.49	1.15	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	0.38	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	0.53	0.95	0.60	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2009	0.54	0.95	0.55	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	0.16	45.00	0.12	90.00
2011	0.46	0.95	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.46	0.95	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.46	0.95	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	0.46	0.95	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00

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
2002	0.26	0.65	0.30	7.00	0.25	20.00	0.20	45.00	0.10	90.00
2003	0.23	0.65	0.40	7.00	0.27	20.00	0.20	45.00	0.12	90.00
2004	0.20	0.65	0.42	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2005	0.15	0.65	0.47	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	0.17	0.75	0.45	7.00	0.27	20.00	0.16	45.00	0.12	90.00
2007	0.16	0.70	0.40	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2008	0.19	0.65	0.50	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2009	0.25	0.75	0.60	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2010	0.27	0.70	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.28	0.70	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.29	0.70	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.30	0.70	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	0.32	0.70	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00

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
2002	0.43	0.75	0.40	7.00	0.28	20.00	0.12	45.00	0.12	90.00
2003	0.47	0.75	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2004	0.37	0.65	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2005	0.30	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	0.28	0.95	0.42	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2007	0.38	0.50	0.33	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	0.41	0.80	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	0.36	0.50	0.30	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	0.47	0.85	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2011	0.41	0.85	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2012	0.41	0.85	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2013	0.41	0.85	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2014	0.41	0.85	0.45	7.00	0.30	20.00	0.20	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
2002	0.78	1.15	0.40	7.00	0.25	20.00	0.18	45.00	0.05	90.00
2003	0.59	0.95	0.40	7.00	0.30	20.00	0.16	45.00	0.05	90.00
2004	0.52	0.65	0.40	7.00	0.25	20.00	0.12	45.00	0.05	90.00
2005	0.55	0.95	0.45	7.00	0.37	20.00	0.12	45.00	0.05	90.00
2006	0.17	1.65	0.45	7.00	0.16	20.00	0.14	45.00	0.05	90.00
2007	0.53	1.15	0.45	7.00	0.25	20.00	0.12	45.00	0.05	90.00
2008	0.57	0.60	0.35	7.00	0.25	20.00	0.12	45.00	0.05	90.00
2009	0.10	1.15	0.60	7.00	0.30	20.00	0.12	45.00	0.05	90.00
2010	1.11	1.15	0.45	7.00	0.30	20.00	0.12	45.00	0.05	90.00
2011	0.59	1.15	0.45	7.00	0.30	20.00	0.12	45.00	0.05	90.00
2012	0.59	1.15	0.45	7.00	0.30	20.00	0.12	45.00	0.05	90.00
2013	0.59	1.15	0.45	7.00	0.30	20.00	0.12	45.00	0.05	90.00
2014	0.59	1.15	0.45	7.00	0.30	20.00	0.12	45.00	0.05	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
2002	1.32	0.95	0.42	7.00	0.32	20.00	0.16	45.00	0.08	90.00
2003	0.77	0.85	0.34	7.00	0.23	20.00	0.14	45.00	0.08	90.00
2004	0.45	0.50	0.35	7.00	0.20	20.00	0.16	45.00	0.08	90.00
2005	0.68	0.65	0.42	7.00	0.35	20.00	0.14	45.00	0.08	90.00
2006	0.59	1.15	0.45	7.00	0.22	20.00	0.14	45.00	0.08	90.00
2007	0.55	0.95	0.43	7.00	0.25	20.00	0.14	45.00	0.08	90.00
2008	0.61	0.75	0.40	7.00	0.30	20.00	0.14	45.00	0.08	90.00
2009	0.72	0.65	0.45	7.00	0.25	20.00	0.14	45.00	0.08	90.00
2010	1.10	0.95	0.60	7.00	0.30	20.00	0.14	45.00	0.08	90.00
2011	1.11	0.95	0.60	7.00	0.30	20.00	0.14	45.00	0.08	90.00
2012	1.12	0.95	0.60	7.00	0.30	20.00	0.14	45.00	0.08	90.00
2013	1.12	0.95	0.60	7.00	0.30	20.00	0.14	45.00	0.08	90.00
2014	1.13	0.95	0.60	7.00	0.30	20.00	0.14	45.00	0.08	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
2002	1.94	0.35	0.55	7.00	0.53	20.00	0.16	45.00	0.12	90.00
2003	0.61	0.55	0.35	7.00	0.38	20.00	0.16	45.00	0.12	90.00
2004	0.60	0.88	0.42	7.00	0.23	20.00	0.12	45.00	0.12	90.00
2005	0.79	0.20	0.27	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2006	0.93	0.95	0.46	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	0.63	0.65	0.30	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2008	0.37	1.45	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.76	0.95	0.70	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	1.11	0.85	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.27	0.85	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	1.44	0.85	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	1.60	0.85	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	1.77	0.85	0.45	7.00	0.30	20.00	0.16	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
2002	1.21	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2003	1.24	0.45	0.35	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2004	1.38	0.10	0.12	7.00	0.20	20.00	0.14	45.00	0.12	90.00
2005	1.05	0.35	0.25	7.00	0.16	20.00	0.14	45.00	0.12	90.00
2006	0.35	0.65	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	1.58	0.40	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2008	1.21	2.25	0.70	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2009	0.97	1.45	0.95	9.00	0.40	20.00	0.16	45.00	0.12	90.00
2010	0.74	0.95	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.64	0.95	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.57	0.95	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.53	0.95	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	0.50	0.95	0.55	7.00	0.30	20.00	0.16	45.00	0.12	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
2002	0.36	1.25	0.50	7.00	0.30	20.00	0.16	45.00	0.08	90.00
2003	0.47	0.95	0.40	7.00	0.23	20.00	0.14	45.00	0.08	90.00
2004	0.38	0.20	0.16	7.00	0.10	20.00	0.08	45.00	0.08	90.00
2005	0.45	0.95	0.50	7.00	0.12	20.00	0.08	45.00	0.08	90.00
2006	0.78	0.85	0.35	7.00	0.20	20.00	0.14	45.00	0.08	90.00
2007	0.43	0.65	0.48	7.00	0.25	20.00	0.14	45.00	0.08	90.00
2008	1.11	0.85	0.45	7.00	0.25	25.00	0.14	45.00	0.08	90.00
2009	0.46	1.25	0.30	7.00	0.20	20.00	0.14	45.00	0.08	90.00
2010	0.52	0.85	0.45	7.00	0.25	20.00	0.14	45.00	0.08	90.00
2011	0.52	0.85	0.45	7.00	0.25	20.00	0.14	45.00	0.08	90.00
2012	0.52	0.85	0.45	7.00	0.25	20.00	0.14	45.00	0.08	90.00
2013	0.52	0.85	0.45	7.00	0.25	20.00	0.14	45.00	0.08	90.00
2014	0.52	0.85	0.45	7.00	0.25	20.00	0.14	45.00	0.08	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
2002	0.88	0.65	0.42	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2003	0.53	0.65	0.40	7.00	0.25	20.00	0.14	45.00	0.12	90.00
2004	0.56	0.85	0.35	7.00	0.22	20.00	0.14	45.00	0.12	90.00
2005	0.50	0.65	0.35	7.00	0.23	20.00	0.16	45.00	0.12	90.00
2006	0.62	1.05	0.45	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	0.54	0.95	0.43	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2008	0.56	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	0.77	0.75	0.55	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2010	1.07	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	1.07	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	1.07	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	1.07	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	1.07	0.85	0.45	7.00	0.25	20.00	0.16	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
2002	3.54	0.60	0.30	7.00	0.23	20.00	0.16	45.00	0.12	90.00
2003	1.29	0.65	0.40	7.00	0.22	20.00	0.14	45.00	0.12	90.00
2004	1.38	0.50	0.35	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2005	0.80	0.40	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2006	0.77	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	0.78	1.00	0.47	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2008	1.53	1.25	0.35	6.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	1.34	1.45	0.65	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2010	0.68	0.85	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.68	0.85	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.68	0.85	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.68	0.85	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	0.68	0.85	0.50	7.00	0.25	20.00	0.16	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
2002	3.21	0.75	0.45	7.00	0.28	20.00	0.18	45.00	0.12	90.00
2003	1.77	0.60	0.30	7.00	0.27	20.00	0.20	45.00	0.12	90.00
2004	1.59	0.60	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2005	0.74	0.70	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	1.14	0.65	0.37	7.00	0.33	20.00	0.20	45.00	0.12	90.00
2007	1.29	0.95	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2008	2.41	0.95	0.60	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2009	1.23	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	1.58	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.58	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	1.58	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	1.58	0.95	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	1.58	0.95	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
2002	1.81	0.65	0.25	7.00	0.14	20.00	0.12	45.00	0.10	90.00
2003	6.48	0.40	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2004	3.85	0.40	0.25	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2005	3.14	0.65	0.50	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2006	5.04	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2007	7.08	0.85	0.45	7.00	0.27	20.00	0.16	45.00	0.12	90.00
2008	3.80	0.90	0.65	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2009	3.04	0.55	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2010	2.26	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	2.21	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	2.15	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	2.10	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	2.04	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00

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
2002	4.64	0.40	0.30	7.00	0.12	20.00	0.10	45.00	0.10	90.00
2003	4.32	0.45	0.20	7.00	0.12	20.00	0.10	45.00	0.10	90.00
2004	3.20	0.65	0.40	7.00	0.20	20.00	0.12	45.00	0.10	90.00
2005	3.03	0.75	0.35	7.00	0.16	20.00	0.12	45.00	0.10	90.00
2006	2.13	0.10	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2007	3.68	0.65	0.40	7.00	0.30	20.00	0.20	45.00	0.10	90.00
2008	4.67	0.75	0.45	7.00	0.30	25.00	0.20	45.00	0.10	90.00
2009	3.96	0.60	0.45	10.00	0.30	25.00	0.16	45.00	0.10	90.00
2010	1.37	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.10	90.00
2011	2.78	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.10	90.00
2012	2.78	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.10	90.00
2013	2.78	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.10	90.00
2014	2.78	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.10	90.00

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
2002	6.81	0.05	0.05	7.00	0.15	20.00	0.14	45.00	0.12	90.00
2003	2.97	0.10	0.30	7.00	0.12	20.00	0.10	45.00	0.10	90.00
2004	2.55	0.20	0.25	7.00	0.16	20.00	0.14	45.00	0.12	90.00
2005	13.86	0.15	0.18	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2006	3.64	0.30	0.25	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2007	2.20	0.95	0.80	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2008	1.81	0.75	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	1.42	0.85	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	1.28	0.75	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.15	0.75	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	1.04	0.75	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.93	0.75	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	0.84	0.75	0.45	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
2004	1.18	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2005	2.24	0.65	0.50	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2006	0.22	0.20	0.12	7.00	0.05	20.00	0.05	45.00	0.05	90.00
2007	1.29	0.75	0.50	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2008	0.83	0.48	0.38	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	1.06	0.90	0.60	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2010	1.06	0.75	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.06	0.75	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	1.06	0.75	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	1.06	0.75	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	1.06	0.75	0.50	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	2.09	1.20	0.80	7.00	0.60	500.00	0.16	500.00	0.12	500.00
2003	1.79	2.08	0.73	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2004	1.49	2.95	0.65	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2005	0.33	0.60	0.35	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2006	2.45	0.75	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2007	0.66	1.05	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2008	0.16	0.75	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	1.09	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	1.09	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	1.09	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	1.09	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	1.09	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	1.09	0.95	0.45	7.00	0.25	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
2005	4.96	0.60	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	1.02	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	1.12	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	4.14	0.65	0.40	7.00	0.30	25.00	0.16	45.00	0.12	90.00
2009	2.78	0.75	0.55	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	2.68	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	2.68	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	2.68	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	2.68	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	2.68	0.65	0.45	7.00	0.25	20.00	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
2002	0.53	0.85	0.65	7.00	0.33	20.00	0.20	45.00	0.12	90.00
2003	0.55	1.10	0.55	7.00	0.33	20.00	0.20	45.00	0.12	90.00
2004	0.61	1.40	0.60	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2005	0.66	0.85	0.77	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	0.54	1.05	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2007	0.69	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2008	0.59	0.95	0.60	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2009	1.02	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	0.79	0.85	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.80	0.85	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.80	0.85	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.80	0.85	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	0.80	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
2002	0.77	0.99	0.59	7.00	0.32	20.00	0.18	45.00	0.12	90.00
2003	0.78	0.90	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2004	0.64	0.50	0.55	7.00	0.43	20.00	0.20	45.00	0.12	90.00
2005	0.83	1.05	0.63	7.00	0.27	20.00	0.16	45.00	0.12	90.00
2006	0.77	0.95	0.50	7.00	0.32	20.00	0.16	45.00	0.12	90.00
2007	0.76	0.65	0.45	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2008	1.10	1.35	0.47	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2009	1.27	0.65	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	1.16	0.95	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.17	0.95	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	1.17	0.95	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	1.17	0.95	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	1.17	0.95	0.55	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
2002	1.69	0.30	0.35	7.00	0.30	20.00	0.23	45.00	0.12	90.00
2003	1.28	0.50	0.35	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2004	1.49	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2005	1.27	0.70	0.45	7.00	0.28	20.00	0.20	45.00	0.12	90.00
2006	1.11	1.65	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	1.05	0.65	0.50	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2008	0.75	0.55	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2009	1.19	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	0.43	0.70	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	0.79	0.70	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	0.79	0.70	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	0.79	0.70	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	0.79	0.70	0.40	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	0.80	0.60	0.25	7.00	0.20	20.00	0.12	45.00	0.05	90.00
2003	1.72	0.65	0.35	7.00	0.12	20.00	0.05	45.00	0.05	90.00
2004	0.04	0.95	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2005	0.07	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	1.28	0.95	0.60	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2007	0.88	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2008	0.76	1.25	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	1.07	0.85	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	1.16	0.95	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.00	0.95	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	1.00	0.95	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	1.00	0.95	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	1.00	0.95	0.45	7.00	0.30	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
2002	0.78	1.15	0.37	7.00	0.18	20.00	0.16	45.00	0.12	90.00
2003	0.70	0.55	0.30	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2004	0.68	0.85	0.40	7.00	0.18	20.00	0.16	45.00	0.12	90.00
2005	0.69	0.90	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2006	0.77	0.85	0.50	7.00	0.28	20.00	0.16	45.00	0.12	90.00
2007	0.74	0.95	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	0.69	0.95	0.55	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2009	1.39	0.95	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	1.29	1.05	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	1.13	1.05	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	1.13	1.05	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	1.13	1.05	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	1.13	1.05	0.45	7.00	0.30	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
2002	1.06	0.65	0.45	7.00	0.30	20.00	0.14	45.00	0.05	90.00
2003	1.09	0.75	0.60	7.00	0.25	20.00	0.16	45.00	0.05	90.00
2004	1.02	0.95	0.60	7.00	0.27	20.00	0.14	45.00	0.05	90.00
2005	1.01	1.05	0.47	7.00	0.25	20.00	0.14	45.00	0.05	90.00
2006	0.69	0.95	0.45	7.00	0.20	20.00	0.14	45.00	0.05	90.00
2007	0.72	0.60	0.50	7.00	0.30	20.00	0.14	45.00	0.05	90.00
2008	0.99	1.35	0.65	7.00	0.30	25.00	0.14	45.00	0.05	90.00
2009	1.28	1.05	0.60	7.00	0.30	20.00	0.14	45.00	0.05	90.00
2010	1.98	1.05	0.55	7.00	0.30	20.00	0.14	45.00	0.05	90.00
2011	2.18	1.05	0.55	7.00	0.30	20.00	0.14	45.00	0.05	90.00
2012	2.40	1.05	0.55	7.00	0.30	20.00	0.14	45.00	0.05	90.00
2013	2.64	1.05	0.55	7.00	0.30	20.00	0.14	45.00	0.05	90.00
2014	2.90	1.05	0.55	7.00	0.30	20.00	0.14	45.00	0.05	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
2002	0.76	1.05	0.40	7.00	0.18	20.00	0.12	45.00	0.05	90.00
2003	0.71	1.15	0.48	7.00	0.23	20.00	0.14	45.00	0.05	90.00
2004	0.50	0.40	0.45	7.00	0.25	20.00	0.16	45.00	0.05	90.00
2005	0.48	0.65	0.40	7.00	0.20	20.00	0.14	45.00	0.05	90.00
2006	0.32	0.55	0.25	7.00	0.14	20.00	0.10	45.00	0.05	90.00
2007	0.49	1.45	0.40	7.00	0.18	20.00	0.12	45.00	0.05	90.00
2008	0.56	0.65	0.40	7.00	0.20	20.00	0.14	45.00	0.05	90.00
2009	0.59	0.85	0.40	7.00	0.20	20.00	0.14	45.00	0.05	90.00
2010	0.45	0.65	0.40	7.00	0.20	20.00	0.14	45.00	0.05	90.00
2011	0.54	0.65	0.40	7.00	0.20	20.00	0.14	45.00	0.05	90.00
2012	0.54	0.65	0.40	7.00	0.20	20.00	0.14	45.00	0.05	90.00
2013	0.54	0.65	0.40	7.00	0.20	20.00	0.14	45.00	0.05	90.00
2014	0.54	0.65	0.40	7.00	0.20	20.00	0.14	45.00	0.05	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
2002	0.99	1.10	0.40	7.00	0.18	20.00	0.14	45.00	0.08	90.00
2003	0.57	1.20	0.30	7.00	0.18	20.00	0.12	45.00	0.08	90.00
2004	0.50	0.65	0.40	7.00	0.22	20.00	0.10	45.00	0.08	90.00
2005	0.51	1.15	0.40	7.00	0.28	20.00	0.12	45.00	0.08	90.00
2006	0.68	1.15	0.40	7.00	0.18	20.00	0.14	45.00	0.08	90.00
2007	0.87	1.15	0.50	7.00	0.30	20.00	0.18	45.00	0.08	90.00
2008	0.57	1.35	0.55	7.00	0.25	20.00	0.16	45.00	0.08	90.00
2009	0.24	0.65	0.40	7.00	0.20	20.00	0.14	45.00	0.08	90.00
2010	0.53	0.75	0.45	7.00	0.20	20.00	0.14	45.00	0.08	90.00
2011	0.53	0.75	0.45	7.00	0.20	20.00	0.14	45.00	0.08	90.00
2012	0.53	0.75	0.45	7.00	0.20	20.00	0.14	45.00	0.08	90.00
2013	0.53	0.75	0.45	7.00	0.20	20.00	0.14	45.00	0.08	90.00
2014	0.53	0.75	0.45	7.00	0.20	20.00	0.14	45.00	0.08	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
2002	0.32	0.20	0.18	7.00	0.14	20.00	0.10	45.00	0.05	90.00
2003	0.68	0.95	0.60	7.00	0.25	20.00	0.12	45.00	0.05	90.00
2004	1.12	1.65	0.55	7.00	0.25	20.00	0.14	45.00	0.05	90.00
2005	0.46	0.65	0.55	7.00	0.35	20.00	0.20	45.00	0.05	90.00
2006	0.54	0.85	0.50	7.00	0.32	20.00	0.18	45.00	0.05	90.00
2007	0.38	0.65	0.40	7.00	0.20	20.00	0.12	45.00	0.05	90.00
2008	0.89	0.65	0.40	7.00	0.20	20.00	0.12	45.00	0.05	90.00
2009	0.69	0.75	0.45	7.00	0.20	20.00	0.12	45.00	0.05	90.00
2010	1.44	0.85	0.50	7.00	0.30	20.00	0.16	45.00	0.05	90.00
2011	1.44	0.85	0.50	7.00	0.30	20.00	0.16	45.00	0.05	90.00
2012	1.44	0.85	0.50	7.00	0.30	20.00	0.16	45.00	0.05	90.00
2013	1.44	0.85	0.50	7.00	0.30	20.00	0.16	45.00	0.05	90.00
2014	1.44	0.85	0.50	7.00	0.30	20.00	0.16	45.00	0.05	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
2002	2.31	0.60	0.30	7.00	0.20	20.00	0.14	45.00	0.05	90.00
2003	2.12	0.95	0.40	7.00	0.25	20.00	0.15	45.00	0.05	90.00
2004	1.59	0.65	0.50	7.00	0.30	20.00	0.14	45.00	0.05	90.00
2005	1.21	0.65	0.42	7.00	0.33	20.00	0.14	45.00	0.05	90.00
2006	1.36	0.65	0.37	7.00	0.20	20.00	0.14	45.00	0.05	90.00
2007	0.73	0.65	0.50	7.00	0.35	20.00	0.18	45.00	0.05	90.00
2008	0.90	0.80	0.45	7.00	0.30	20.00	0.16	45.00	0.05	90.00
2009	1.78	0.65	0.40	7.00	0.20	20.00	0.12	45.00	0.05	90.00
2010	2.33	0.65	0.40	7.00	0.20	20.00	0.12	45.00	0.05	90.00
2011	2.57	0.65	0.40	7.00	0.20	20.00	0.12	45.00	0.05	90.00
2012	2.83	0.65	0.40	7.00	0.20	20.00	0.12	45.00	0.05	90.00
2013	3.11	0.65	0.40	7.00	0.20	20.00	0.12	45.00	0.05	90.00
2014	3.42	0.65	0.40	7.00	0.20	20.00	0.12	45.00	0.05	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
2002	4.58	0.85	0.50	7.00	0.25	20.00	0.12	45.00	0.12	90.00
2003	2.90	0.85	0.70	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2004	4.14	0.45	0.22	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2005	4.57	1.65	0.85	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2006	0.26	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	8.92	0.30	0.20	7.00	0.18	20.00	0.16	45.00	0.12	90.00
2008	1.58	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	4.61	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	3.09	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	3.09	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	3.09	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	3.09	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2014	3.09	0.65	0.40	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
2002	1.09	1.05	0.25	7.00	0.16	20.00	0.16	45.00	0.12	90.00
2003	0.67	0.65	0.40	7.00	0.25	20.00	0.14	45.00	0.12	90.00
2004	0.87	0.85	0.40	7.00	0.20	20.00	0.14	45.00	0.12	90.00
2005	0.64	0.90	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2006	0.60	0.95	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2007	0.60	1.05	0.45	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2008	0.68	0.95	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	0.81	0.75	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	1.04	0.95	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	1.27	0.95	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	1.58	0.95	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	1.95	0.95	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2014	2.41	0.95	0.40	7.00	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
2002	1.70	0.65	0.40	7.00	0.50	20.00	0.14	45.00	0.10	90.00
2003	1.16	0.65	0.40	7.00	0.30	20.00	0.14	45.00	0.10	90.00
2004	0.98	0.65	0.40	7.00	0.35	20.00	0.16	45.00	0.10	90.00
2005	0.59	0.60	0.40	7.00	0.22	20.00	0.16	45.00	0.10	90.00
2006	0.48	0.50	0.33	7.00	0.20	20.00	0.16	45.00	0.10	90.00
2007	0.89	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.10	90.00
2008	1.30	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.10	90.00
2009	1.07	1.15	0.45	7.00	0.20	20.00	0.16	45.00	0.10	90.00
2010	0.96	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.10	90.00
2011	0.89	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.10	90.00
2012	0.76	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.10	90.00
2013	0.66	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.10	90.00
2014	0.56	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.10	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
2002	1.27	0.85	0.40	7.00	0.32	20.00	0.18	45.00	0.10	90.00
2003	1.09	0.65	0.50	7.00	0.32	20.00	0.14	45.00	0.10	90.00
2004	0.74	0.60	0.45	7.00	0.27	20.00	0.14	45.00	0.10	90.00
2005	0.60	0.60	0.45	7.00	0.28	20.00	0.14	45.00	0.10	90.00
2006	0.63	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.10	90.00
2007	0.76	0.65	0.40	7.00	0.33	20.00	0.16	45.00	0.10	90.00
2008	1.10	0.90	0.45	7.00	0.30	20.00	0.16	45.00	0.10	90.00
2009	1.04	0.65	0.50	7.00	0.30	20.00	0.16	45.00	0.10	90.00
2010	1.14	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.10	90.00
2011	1.14	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.10	90.00
2012	1.14	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.10	90.00
2013	1.14	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.10	90.00
2014	1.14	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.10	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
2002	1.04	0.50	0.30	7.00	0.10	20.00	0.10	45.00	0.05	90.00
2003	1.64	0.60	0.30	7.00	0.20	20.00	0.12	45.00	0.05	90.00
2004	3.35	1.25	0.40	7.00	0.25	20.00	0.16	45.00	0.05	90.00
2005	1.05	1.25	0.40	7.00	0.20	20.00	0.16	45.00	0.05	90.00
2006	0.72	1.05	0.37	7.00	0.22	20.00	0.14	45.00	0.05	90.00
2007	0.45	1.05	0.65	7.00	0.35	20.00	0.14	45.00	0.05	90.00
2008	1.52	1.65	0.60	7.00	0.35	20.00	0.16	45.00	0.05	90.00
2009	1.47	1.25	0.55	7.00	0.25	20.00	0.14	45.00	0.05	90.00
2010	2.44	1.25	0.55	7.00	0.25	20.00	0.14	45.00	0.05	90.00
2011	2.69	1.25	0.55	7.00	0.25	20.00	0.14	45.00	0.05	90.00
2012	2.96	1.25	0.55	7.00	0.25	20.00	0.14	45.00	0.05	90.00
2013	3.25	1.25	0.55	7.00	0.25	20.00	0.14	45.00	0.05	90.00
2014	3.58	1.25	0.55	7.00	0.25	20.00	0.14	45.00	0.05	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
2002	0.31	0.23	0.27	7.00	0.23	20.00	0.20	45.00	0.16	90.00
2003	0.29	0.40	0.30	7.00	0.30	20.00	0.20	45.00	0.16	90.00
2004	0.24	0.18	0.32	7.00	0.27	20.00	0.20	45.00	0.16	90.00
2005	0.25	0.65	0.45	7.00	0.27	20.00	0.16	45.00	0.16	90.00
2006	0.20	0.65	0.40	7.00	0.27	20.00	0.23	45.00	0.16	90.00
2007	0.23	0.65	0.40	7.00	0.32	20.00	0.20	45.00	0.16	90.00
2008	0.22	0.65	0.45	7.00	0.40	20.00	0.20	45.00	0.16	90.00
2009	0.19	0.75	0.45	7.00	0.30	20.00	0.20	45.00	0.16	90.00
2010	0.20	0.65	0.35	7.00	0.25	20.00	0.20	45.00	0.16	90.00
2011	0.20	0.65	0.35	7.00	0.25	20.00	0.20	45.00	0.16	90.00
2012	0.20	0.65	0.35	7.00	0.25	20.00	0.20	45.00	0.16	90.00
2013	0.20	0.65	0.35	7.00	0.25	20.00	0.20	45.00	0.16	90.00
2014	0.20	0.65	0.35	7.00	0.25	20.00	0.20	45.00	0.16	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
2002	0.56	0.20	0.25	7.00	0.33	20.00	0.50	45.00	0.20	90.00
2003	0.94	0.25	0.50	7.00	0.48	20.00	0.32	45.00	0.20	90.00
2004	0.44	0.65	0.40	7.00	0.30	20.00	0.33	45.00	0.20	90.00
2005	0.41	0.65	0.50	7.00	0.33	20.00	0.25	45.00	0.20	90.00
2006	0.29	0.95	0.50	7.00	0.40	20.00	0.30	45.00	0.20	90.00
2007	0.32	0.65	0.30	7.00	0.16	20.00	0.14	45.00	0.12	90.00
2008	0.26	0.75	0.50	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2009	0.25	0.75	0.55	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2010	0.24	0.75	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2011	0.23	0.75	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2012	0.22	0.75	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2013	0.22	0.75	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2014	0.21	0.75	0.45	7.00	0.30	20.00	0.20	45.00	0.12	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
2002	0.45	0.85	0.50	7.00	0.90	20.00	0.30	45.00	0.18	90.00
2003	0.47	0.30	0.40	7.00	0.50	20.00	0.30	45.00	0.18	90.00
2004	0.76	0.65	0.65	7.00	0.55	20.00	0.30	45.00	0.18	90.00
2005	0.65	0.65	0.47	7.00	0.42	20.00	0.30	45.00	0.18	90.00
2006	0.47	0.65	0.40	7.00	0.75	20.00	0.30	45.00	0.18	90.00
2007	0.61	0.35	0.55	7.00	0.80	20.00	0.30	45.00	0.18	90.00
2008	0.41	0.65	0.65	7.00	0.70	20.00	0.30	45.00	0.18	90.00
2009	0.46	0.65	0.60	7.00	0.70	20.00	0.30	45.00	0.18	90.00
2010	0.61	0.70	0.60	7.00	0.70	20.00	0.30	45.00	0.18	90.00
2011	0.61	0.70	0.60	7.00	0.70	20.00	0.30	45.00	0.18	90.00
2012	0.61	0.70	0.60	7.00	0.70	20.00	0.30	45.00	0.18	90.00
2013	0.61	0.70	0.60	7.00	0.70	20.00	0.30	45.00	0.18	90.00
2014	0.61	0.70	0.60	7.00	0.70	20.00	0.30	45.00	0.18	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
2002	1.12	1.25	0.57	7.00	0.40	20.00	0.32	45.00	0.12	90.00
2003	0.82	0.65	0.75	7.00	0.45	20.00	0.25	45.00	0.12	90.00
2004	0.63	0.30	0.50	7.00	0.53	20.00	0.30	45.00	0.12	90.00
2005	0.73	0.95	0.95	7.00	0.38	20.00	0.30	45.00	0.12	90.00
2006	0.63	0.95	0.60	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2007	0.76	1.25	0.70	7.00	0.50	20.00	0.25	45.00	0.12	90.00
2008	0.51	1.25	0.30	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2009	0.67	1.25	0.60	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2010	0.51	1.25	0.60	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2011	0.56	1.25	0.60	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2012	0.56	1.25	0.60	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2013	0.56	1.25	0.60	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2014	0.56	1.25	0.60	7.00	0.40	20.00	0.20	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
2002	2.15	1.65	0.85	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2003	1.35	0.65	0.65	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2004	0.63	0.40	0.30	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2005	0.48	1.25	0.50	7.00	0.30	20.00	0.22	45.00	0.16	90.00
2006	0.88	0.65	0.50	7.00	0.45	20.00	0.25	45.00	0.16	90.00
2007	0.76	1.45	0.80	7.00	0.40	20.00	0.20	45.00	0.16	90.00
2008	0.68	0.55	0.75	7.00	0.40	20.00	0.25	45.00	0.16	90.00
2009	0.94	1.35	0.55	7.00	0.30	20.00	0.20	45.00	0.16	90.00
2010	0.65	1.35	0.50	7.00	0.30	20.00	0.20	45.00	0.16	90.00
2011	0.76	1.35	0.50	7.00	0.30	20.00	0.20	45.00	0.16	90.00
2012	0.76	1.35	0.50	7.00	0.30	20.00	0.20	45.00	0.16	90.00
2013	0.76	1.35	0.50	7.00	0.30	20.00	0.20	45.00	0.16	90.00
2014	0.76	1.35	0.50	7.00	0.30	20.00	0.20	45.00	0.16	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
2002	1.25	1.25	0.75	7.00	0.25	20.00	0.20	45.00	0.12	90.00
2003	0.54	1.25	0.40	7.00	0.20	20.00	0.12	45.00	0.12	90.00
2004	1.08	0.95	0.60	7.00	0.32	20.00	0.16	45.00	0.12	90.00
2005	0.62	1.25	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2006	0.71	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2007	1.09	1.75	0.60	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2008	1.07	0.45	0.35	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2009	1.97	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.07	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	2.17	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	2.28	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	2.40	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	2.52	0.85	0.45	7.00	0.25	20.00	0.16	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
2002	3.41	1.25	1.00	7.00	0.55	20.00	0.25	45.00	0.12	90.00
2003	1.34	0.55	0.50	7.00	0.40	20.00	0.16	45.00	0.12	90.00
2004	0.76	0.25	0.35	7.00	0.27	20.00	0.20	45.00	0.12	90.00
2005	0.77	0.20	0.65	7.00	0.28	20.00	0.20	45.00	0.12	90.00
2006	0.71	1.05	0.55	7.00	0.27	20.00	0.20	45.00	0.12	90.00
2007	0.64	1.25	0.75	7.00	0.27	20.00	0.20	45.00	0.12	90.00
2008	1.12	0.60	0.70	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2009	1.27	0.75	0.85	7.00	0.45	20.00	0.25	45.00	0.12	90.00
2010	0.56	0.85	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2011	0.98	0.85	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2012	0.98	0.85	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2013	0.98	0.85	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2014	0.98	0.85	0.65	7.00	0.35	20.00	0.20	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
2002	5.35	0.25	0.20	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2003	2.97	0.65	1.55	7.00	0.55	20.00	0.25	45.00	0.12	90.00
2004	1.61	0.65	0.55	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2005	3.29	0.20	0.70	7.00	0.80	20.00	0.20	45.00	0.12	90.00
2006	0.68	1.25	0.75	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2007	2.21	2.95	1.25	7.00	0.65	20.00	0.20	45.00	0.12	90.00
2008	0.66	1.25	0.85	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2009	0.41	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2010	1.06	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2011	1.06	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2012	1.06	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2013	1.06	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2014	1.06	1.25	0.65	7.00	0.35	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - Peace River - 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
2002	1.43	1.50	0.70	7.00	0.50	20.00	0.25	45.00	0.12	90.00
2003	0.37	1.05	0.40	7.00	0.28	20.00	0.20	45.00	0.12	90.00
2004	1.81	1.30	0.53	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2005	0.96	1.50	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	0.48	1.25	0.80	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2007	0.76	1.85	0.60	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	0.84	0.60	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2009	0.68	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	1.81	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	1.81	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	1.81	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	1.81	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2014	1.81	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Peace River - 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
2002	1.08	0.65	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2003	0.81	0.98	0.52	7.00	0.25	20.00	0.14	45.00	0.12	90.00
2004	0.77	1.15	0.50	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2005	0.65	0.95	0.75	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2006	0.74	1.35	0.50	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2007	0.58	0.65	0.50	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2008	1.05	0.70	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	1.40	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	1.58	0.70	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	1.66	0.70	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	1.74	0.70	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	1.83	0.70	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	1.92	0.70	0.50	7.00	0.25	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
2002	0.19	0.65	0.50	7.00	0.16	20.00	0.18	45.00	0.12	90.00
2003	0.13	0.70	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2004	0.11	0.30	0.25	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2005	0.09	0.20	0.30	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	0.13	0.30	0.20	7.00	0.23	20.00	0.16	45.00	0.12	90.00
2007	0.19	0.65	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	0.25	0.30	0.25	7.00	0.16	20.00	0.14	45.00	0.12	90.00
2009	0.32	0.40	0.25	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2010	0.31	0.50	0.35	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2011	0.31	0.50	0.35	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2012	0.31	0.50	0.35	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2013	0.31	0.50	0.35	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2014	0.31	0.50	0.35	7.00	0.20	20.00	0.16	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
2002	0.52	0.55	0.30	7.00	0.27	20.00	0.22	45.00	0.12	90.00
2003	0.25	0.65	0.25	7.00	0.16	20.00	0.16	45.00	0.12	90.00
2004	0.43	0.65	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2005	0.22	0.55	0.30	7.00	0.27	20.00	0.18	45.00	0.12	90.00
2006	0.13	0.65	0.20	7.00	0.18	20.00	0.16	45.00	0.12	90.00
2007	0.28	0.75	0.55	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2008	0.28	0.60	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2009	0.14	0.35	0.25	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2010	0.22	0.60	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2011	0.22	0.60	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2012	0.22	0.60	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2013	0.22	0.60	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2014	0.22	0.60	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
2002	1.65	1.25	0.90	7.00	0.30	20.00	0.25	45.00	0.12	90.00
2003	1.59	0.65	0.55	7.00	0.58	20.00	0.25	45.00	0.12	90.00
2004	0.93	1.05	0.40	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2005	0.69	1.25	0.80	7.00	0.55	20.00	0.25	45.00	0.12	90.00
2006	0.87	1.95	0.60	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2007	0.29	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	0.73	1.85	0.70	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2009	2.41	1.75	0.75	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2010	0.64	1.25	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2011	0.80	1.25	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2012	0.80	1.25	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2013	0.80	1.25	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2014	0.80	1.25	0.60	7.00	0.30	20.00	0.20	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
2002	1.14	1.45	1.25	7.00	0.65	20.00	0.40	45.00	0.18	90.00
2003	1.07	0.85	0.95	7.00	0.70	20.00	0.40	45.00	0.18	90.00
2004	0.86	0.95	0.80	7.00	0.60	20.00	0.45	45.00	0.18	90.00
2005	0.96	1.00	0.95	7.00	0.70	20.00	0.45	45.00	0.18	90.00
2006	0.75	2.25	1.25	7.00	0.50	20.00	0.25	45.00	0.18	90.00
2007	0.71	1.65	1.35	7.00	0.90	20.00	0.30	45.00	0.18	90.00
2008	1.01	1.45	1.05	7.00	0.60	20.00	0.40	45.00	0.18	90.00
2009	1.17	1.45	1.05	7.00	0.65	20.00	0.20	45.00	0.18	90.00
2010	0.57	1.45	1.05	7.00	0.65	20.00	0.35	45.00	0.18	90.00
2011	0.71	1.45	1.05	7.00	0.65	20.00	0.35	45.00	0.18	90.00
2012	0.71	1.45	1.05	7.00	0.65	20.00	0.35	45.00	0.18	90.00
2013	0.71	1.45	1.05	7.00	0.65	20.00	0.35	45.00	0.18	90.00
2014	0.71	1.45	1.05	7.00	0.65	20.00	0.35	45.00	0.18	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
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	0.43	0.50	0.35	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2009	0.55	0.50	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2010	0.13	0.50	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2011	0.13	0.50	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2012	0.13	0.50	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2013	0.13	0.50	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2014	0.13	0.50	0.30	7.00	0.20	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
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	2.49	0.50	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	2.76	0.50	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	3.06	0.50	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	3.38	0.50	0.40	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	3.75	0.50	0.40	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
2002	1.54	0.95	0.45	7.00	0.45	20.00	0.05	45.00	0.05	90.00
2003	0.73	0.65	0.40	7.00	0.20	20.00	0.12	45.00	0.05	90.00
2004	0.51	1.35	0.40	7.00	0.20	20.00	0.12	45.00	0.05	90.00
2005	0.09	0.65	0.40	7.00	0.16	20.00	0.08	45.00	0.05	90.00
2006	1.56	1.35	0.95	7.00	0.35	20.00	0.12	45.00	0.05	90.00
2007	1.49	1.95	1.05	7.00	0.35	20.00	0.12	45.00	0.05	90.00
2008	0.96	2.25	1.25	7.00	0.35	20.00	0.12	45.00	0.05	90.00
2009	1.84	2.25	1.25	7.00	0.35	20.00	0.12	45.00	0.05	90.00
2010	1.43	1.65	0.65	7.00	0.35	20.00	0.12	45.00	0.05	90.00
2011	1.43	1.65	0.65	7.00	0.35	20.00	0.12	45.00	0.05	90.00
2012	1.43	1.65	0.65	7.00	0.35	20.00	0.12	45.00	0.05	90.00
2013	1.43	1.65	0.65	7.00	0.35	20.00	0.12	45.00	0.05	90.00
2014	1.43	1.65	0.65	7.00	0.35	20.00	0.12	45.00	0.05	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
2002	1.06	1.85	0.90	7.00	0.45	20.00	0.20	45.00	0.12	90.00
2003	1.77	0.85	0.40	7.00	0.30	20.00	0.28	45.00	0.12	90.00
2004	2.32	0.99	0.60	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2005	1.77	1.25	0.40	7.00	0.25	20.00	0.30	45.00	0.12	90.00
2006	1.73	1.05	0.40	7.00	0.33	20.00	0.16	45.00	0.12	90.00
2007	1.13	1.45	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	2.78	1.10	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	1.61	0.65	0.50	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.35	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	2.35	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	2.35	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	2.35	0.85	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	2.35	0.85	0.45	7.00	0.25	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
2006	1.40	1.85	0.63	7.00	0.25	20.00	0.14	45.00	0.12	90.00
2007	1.53	1.45	0.65	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	2.24	1.25	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	1.86	0.65	0.50	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	4.00	1.05	0.60	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	4.00	1.05	0.60	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	4.00	1.05	0.60	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	4.00	1.05	0.60	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	4.00	1.05	0.60	7.00	0.25	20.00	0.16	45.00	0.12	90.00

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
2002	0.63	0.95	0.35	7.00	0.20	20.00	0.23	45.00	0.18	90.00
2003	0.59	0.85	0.40	7.00	0.23	20.00	0.24	45.00	0.18	90.00
2004	0.43	0.60	0.40	7.00	0.24	20.00	0.23	45.00	0.18	90.00
2005	0.29	0.55	0.40	7.00	0.24	20.00	0.22	45.00	0.18	90.00
2006	0.29	0.85	0.35	7.00	0.25	20.00	0.22	45.00	0.18	90.00
2007	0.30	0.65	0.48	7.00	0.27	20.00	0.22	45.00	0.18	90.00
2008	0.37	0.95	0.45	7.00	0.27	20.00	0.22	45.00	0.18	90.00
2009	0.23	0.95	0.45	7.00	0.30	20.00	0.25	45.00	0.18	90.00
2010	0.21	0.85	0.45	7.00	0.30	20.00	0.25	45.00	0.18	90.00
2011	0.19	0.85	0.45	7.00	0.30	20.00	0.25	45.00	0.18	90.00
2012	0.17	0.85	0.45	7.00	0.30	20.00	0.25	45.00	0.18	90.00
2013	0.15	0.85	0.45	7.00	0.30	20.00	0.25	45.00	0.18	90.00
2014	0.14	0.85	0.45	7.00	0.30	20.00	0.25	45.00	0.18	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
2002	0.90	0.85	0.45	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2003	0.73	1.15	0.40	7.00	0.28	20.00	0.18	45.00	0.12	90.00
2004	0.70	0.85	0.48	7.00	0.35	20.00	0.16	45.00	0.12	90.00
2005	0.60	0.95	0.50	7.00	0.31	20.00	0.18	45.00	0.12	90.00
2006	0.51	0.95	0.50	7.00	0.22	20.00	0.18	45.00	0.12	90.00
2007	0.60	1.05	0.40	7.00	0.28	20.00	0.18	45.00	0.12	90.00
2008	0.69	1.25	0.40	7.00	0.28	20.00	0.18	45.00	0.12	90.00
2009	0.61	1.35	0.55	7.00	0.30	20.00	0.18	45.00	0.12	90.00
2010	0.52	1.05	0.50	7.00	0.30	20.00	0.18	45.00	0.12	90.00
2011	0.50	1.05	0.50	7.00	0.30	20.00	0.18	45.00	0.12	90.00
2012	0.47	1.05	0.50	7.00	0.30	20.00	0.18	45.00	0.12	90.00
2013	0.45	1.05	0.50	7.00	0.30	20.00	0.18	45.00	0.12	90.00
2014	0.43	1.05	0.50	7.00	0.30	20.00	0.18	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
2002	1.65	0.18	0.85	7.00	0.18	20.00	0.16	45.00	0.12	500.00
2003	0.26	0.05	0.12	7.00	0.20	20.00	0.16	45.00	0.12	90.00
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	0.51	0.10	0.45	7.00	0.60	20.00	0.20	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	1.66	2.05	0.95	7.00	0.40	20.00	0.18	45.00	0.12	90.00
2010	2.37	1.05	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	2.37	1.05	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	2.37	1.05	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	2.37	1.05	0.45	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	2.37	1.05	0.45	7.00	0.30	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
2002	11.06	0.65	1.30	7.00	0.65	20.00	0.30	45.00	0.20	90.00
2003	6.66	0.40	0.30	7.00	0.26	20.00	0.16	45.00	0.12	90.00
2004	1.14	0.75	0.35	7.00	0.20	20.00	0.12	45.00	0.10	90.00
2005	1.46	0.65	0.65	7.00	0.32	20.00	0.25	45.00	0.12	90.00
2006	0.82	0.75	0.45	7.00	0.30	20.00	0.18	45.00	0.12	90.00
2007	1.37	0.55	0.27	7.00	0.18	20.00	0.16	45.00	0.12	90.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	1.23	0.75	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2011	1.23	0.75	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2012	1.23	0.75	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2013	1.23	0.75	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2014	1.23	0.75	0.40	7.00	0.20	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
2006	0.70	0.65	0.57	7.00	0.27	20.00	0.16	45.00	0.12	90.00
2007	1.09	0.65	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	1.21	0.65	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	1.50	0.30	0.25	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2010	4.00	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	4.00	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	4.00	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	4.00	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	4.00	0.65	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00

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
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	1.00	0.35	0.25	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2006	0.23	0.40	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.29	0.65	0.35	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	0.29	0.65	0.35	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	0.29	0.65	0.35	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	0.29	0.65	0.35	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2014	0.29	0.65	0.35	7.00	0.22	20.00	0.16	45.00	0.12	90.00

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
2002	2.07	0.30	0.25	7.00	0.40	20.00	0.32	45.00	0.16	90.00
2003	1.18	0.40	0.45	7.00	0.38	20.00	0.18	45.00	0.12	90.00
2004	2.08	0.40	0.50	7.00	0.48	20.00	0.18	45.00	0.12	90.00
2005	0.99	0.45	0.30	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2006	0.42	0.95	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	0.24	0.20	0.12	7.00	0.10	20.00	0.08	45.00	0.05	90.00
2008	0.40	0.95	0.40	7.00	0.18	20.00	0.16	45.00	0.12	90.00
2009	0.77	0.20	0.18	7.00	0.16	20.00	0.14	45.00	0.12	90.00
2010	0.20	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2011	0.34	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2012	0.34	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2013	0.34	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2014	0.34	0.65	0.40	7.00	0.20	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
2002	4.79	0.95	0.85	7.00	0.60	20.00	0.25	45.00	0.12	90.00
2003	2.86	0.95	0.40	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2004	0.71	0.95	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2005	2.11	0.30	0.20	7.00	0.12	20.00	0.25	45.00	0.12	90.00
2006	0.93	0.65	0.20	7.00	0.08	20.00	0.05	45.00	0.05	90.00
2007	0.04	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	0.50	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2009	0.06	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	0.38	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.38	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.38	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.38	0.75	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	0.38	0.75	0.40	7.00	0.25	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
2002	1.23	0.95	0.55	7.00	0.20	20.00	0.14	45.00	0.12	90.00
2003	1.18	1.05	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2004	1.11	1.15	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2005	0.98	1.15	0.45	7.00	0.23	20.00	0.16	45.00	0.12	90.00
2006	0.62	1.15	0.45	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2007	0.66	1.45	0.55	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2008	0.99	1.45	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	0.59	1.15	0.40	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2010	0.96	1.05	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2011	0.96	1.05	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2012	0.96	1.05	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2013	0.96	1.05	0.45	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2014	0.96	1.05	0.45	7.00	0.25	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
2006	1.40	1.65	0.75	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	1.52	1.75	0.62	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2008	1.37	1.55	0.65	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2009	4.00	0.85	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2010	6.00	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2011	8.00	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2012	8.00	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2013	8.00	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2014	8.00	1.25	0.60	7.00	0.30	20.00	0.16	45.00	0.12	90.00

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
2004	0.96	0.20	0.12	7.00	0.20	20.00	0.30	45.00	0.12	90.00
2005	2.29	0.55	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2006	2.59	0.65	0.60	7.00	0.40	20.00	0.20	45.00	0.12	90.00
2007	1.11	0.35	0.50	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2008	1.64	1.45	0.60	7.00	0.27	20.00	0.20	45.00	0.12	90.00
2009	1.47	0.75	0.55	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2010	2.46	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2011	2.40	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2012	3.78	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2013	3.97	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2014	4.16	0.65	0.40	7.00	0.20	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
2002	3.79	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2003	12.70	0.45	0.25	7.00	0.20	20.00	0.14	45.00	0.12	90.00
2004	8.61	0.40	0.23	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2005	5.95	0.30	0.22	7.00	0.10	20.00	0.08	45.00	0.05	90.00
2006	9.30	0.30	0.14	7.00	0.12	20.00	0.10	45.00	0.10	90.00
2007	3.42	0.30	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2008	3.45	0.60	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2009	4.91	0.40	0.30	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2010	1.18	0.50	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2011	3.18	0.50	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2012	3.18	0.50	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2013	3.18	0.50	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2014	3.18	0.50	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - BC Foothills - 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
2002	1.05	0.20	0.10	7.00	0.08	20.00	0.05	45.00	0.05	90.00
2003	3.34	0.95	0.50	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2004	2.29	0.20	0.42	7.00	0.65	20.00	0.25	45.00	0.12	90.00
2005	0.95	1.45	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2006	0.58	0.37	0.30	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2007	0.52	0.75	0.40	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2008	1.48	0.75	0.40	7.00	0.25	20.00	0.20	45.00	0.12	90.00
2009	1.13	0.85	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2010	2.61	0.85	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2011	2.74	0.85	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2012	2.88	0.85	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2013	3.02	0.85	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2014	3.18	0.85	0.45	7.00	0.30	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - BC Foothills - 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
2002	1.41	0.25	0.20	7.00	0.10	20.00	0.08	45.00	0.05	90.00
2003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	3.09	0.45	0.25	7.00	0.12	20.00	0.08	45.00	0.05	90.00
2005	1.70	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	8.48	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.14	0.65	0.40	7.00	0.22	20.00	0.16	45.00	0.12	90.00
2010	2.07	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2011	1.10	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2012	1.10	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2013	1.10	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00
2014	1.10	0.65	0.40	7.00	0.20	20.00	0.16	45.00	0.12	90.00

Resource Grouping - Gas - Southwest Saskatchewan - 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
2002	0.06	0.55	0.30	7.00	0.22	20.00	0.20	45.00	0.12	90.00
2003	0.08	0.55	0.30	7.00	0.22	20.00	0.22	45.00	0.12	90.00
2004	0.07	0.75	0.27	7.00	0.23	20.00	0.20	45.00	0.12	90.00
2005	0.09	0.75	0.42	7.00	0.28	20.00	0.24	45.00	0.12	90.00
2006	0.09	0.95	0.42	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2007	0.07	0.95	0.40	7.00	0.24	20.00	0.18	45.00	0.12	90.00
2008	0.07	0.90	0.50	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2009	0.08	0.85	0.55	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2010	0.05	0.85	0.50	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2011	0.05	0.85	0.50	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2012	0.05	0.85	0.50	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2013	0.05	0.85	0.50	7.00	0.25	20.00	0.18	45.00	0.12	90.00
2014	0.05	0.85	0.50	7.00	0.25	20.00	0.18	45.00	0.12	90.00

Resource Grouping - Gas - West Saskatchewan - 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	0.11	0.75	0.40	7.00	0.30	20.00	0.35	45.00	0.12	90.00
2003	0.11	0.95	0.60	7.00	0.25	20.00	0.16	45.00	0.12	90.00
2004	0.12	1.35	0.50	7.00	0.23	20.00	0.14	45.00	0.12	90.00
2005	0.10	1.15	0.47	7.00	0.30	20.00	0.14	45.00	0.12	90.00
2006	0.11	1.15	0.50	7.00	0.30	20.00	0.16	45.00	0.12	90.00
2007	0.10	0.95	0.50	7.00	0.35	20.00	0.20	45.00	0.12	90.00
2008	0.08	1.25	0.50	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2009	0.10	1.35	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2010	0.11	1.25	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2011	0.12	1.25	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2012	0.13	1.25	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2013	0.13	1.25	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2014	0.14	1.25	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00

Resource Grouping - Gas - West SK - Conventional - 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
2002	0.29	0.45	0.45	7.00	0.45	20.00	0.28	45.00	0.12	90.00
2003	0.27	0.95	0.60	7.00	0.44	20.00	0.30	45.00	0.12	90.00
2004	0.28	0.65	0.70	7.00	0.55	20.00	0.30	45.00	0.12	90.00
2005	0.24	0.70	0.80	7.00	0.50	20.00	0.40	45.00	0.12	90.00
2006	0.19	0.80	0.52	7.00	0.42	20.00	0.30	45.00	0.12	90.00
2007	0.21	0.67	0.52	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2008	0.16	0.65	0.60	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2009	0.27	0.70	0.55	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2010	0.13	0.70	0.50	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2011	0.18	0.70	0.50	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2012	0.18	0.70	0.50	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2013	0.18	0.70	0.50	7.00	0.30	20.00	0.20	45.00	0.12	90.00
2014	0.18	0.70	0.50	7.00	0.30	20.00	0.20	45.00	0.12	90.00

APPENDIX B

B1 Factors for Allocation of Gas-Intent Drill Days by Area

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 (east Shale)	15 - Northeast BC (Shale)	16 - BC Foothills	17 - Southwest Saskatchewan	18 - West Saskatchewan	19 - East Saskatchewan
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
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

Historical Fraction of Total Gas-Intent Drill Days by Area																					
Drift	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 (east Shale)	15 - Northeast BC (Shale)	16 - BC Foothills	17 - Southwest Saskatchewan	18 - West Saskatchewan	19 - East Saskatchewan
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	0.0467	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	0.0929	0.1199	0.0269	0.0038	0.0571	0.0827	0.0796	0.0448	0.0211	0.1893	0.0004	0.0429	0.0056	0.0516	0.0222	0.0346	0.0000	0.0854	0.0162	0.0227	0.0003
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
2009	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

Projected Gas-Intent Drill Days by Area - Mid-Range Price Case																					
Drift	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 (east Shale)	15 - Northeast BC (Shale)	16 - BC Foothills	17 - Southwest Saskatchewan	18 - West Saskatchewan	19 - East Saskatchewan
2011	3,625	2,419	354	40	576	1,182	4,489	1,003	3,619	11,092	150	728	125	2,939	6,745	1,154	2,100	1,337	2,411	410	0
2012	2,016	1,530	343	35	301	758	4,890	638	2,709	8,569	122	1,076	122	2,532	8,490	840	1,200	1,051	1,085	234	0
2013	376	384	352	37	136	426	5,162	262	2,774	8,649	107	969	149	1,585	8,019	533	1,082	1,191	453	67	0
2014	159	123	500	23	72	263	4,682	108	2,499	8,205	65	979	92	1,484	7,827	422	1,190	1,465	291	36	0

Projected Fraction of Total Gas-Intent Drill Days by Area - Mid-Range Price Case																					
Drift	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 (east Shale)	15 - Northeast BC (Shale)	16 - BC Foothills	17 - Southwest Saskatchewan	18 - West Saskatchewan	19 - East Saskatchewan
2011	0.0780	0.0520	0.0076	0.0009	0.0124	0.0254	0.0965	0.0216	0.0778	0.2386	0.0032	0.0156	0.0027	0.0632	0.1451	0.0248	0.0452	0.0288	0.0519	0.0088	0.0000
2012	0.0523	0.0397	0.0089	0.0009	0.0078	0.0197	0.1269	0.0166	0.0703	0.2223	0.0032	0.0279	0.0032	0.0657	0.2203	0.0218	0.0311	0.0273	0.0282	0.0061	0.0000
2013	0.0115	0.0118	0.0108	0.0011	0.0042	0.0130	0.1578	0.0080	0.0848	0.2644	0.0033	0.0296	0.0046	0.0484	0.2451	0.0163	0.0331	0.0364	0.0139	0.0020	0.0000
2014	0.0052	0.0040	0.0164	0.0008	0.0023	0.0086	0.1536	0.0035	0.0820	0.2692	0.0021	0.0321	0.0030	0.0487	0.2568	0.0138	0.0390	0.0481	0.0095	0.0012	0.0000

Projected Gas-Intent Drill Days by Area - Higher Price Case																					
DrYr	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
2011	2,016	1,530	343	35	301	758	4,890	638	2,709	8,569	122	1,076	122	2,532	8,490	840	2,250	1,051	1,085	234	0
2012	1,730	384	652	37	136	476	5,612	262	3,124	9,149	107	719	124	1,360	8,694	483	2,326	1,241	403	67	0
2013	1,465	123	500	23	72	263	4,682	108	2,699	8,305	65	819	82	1,359	8,177	372	2,490	1,515	241	36	0
2014	1,540	854	889	15	32	242	4,579	32	3,527	7,938	43	1,094	224	1,533	7,964	184	2,689	1,709	217	122	0

Projected Fraction of Total Gas-Intent Drill Days by Area - Higher Price Case																					
DrYr	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
2011	0.0509	0.0386	0.0087	0.0009	0.0076	0.0191	0.1235	0.0161	0.0684	0.2164	0.0031	0.0272	0.0031	0.0639	0.2144	0.0212	0.0568	0.0265	0.0274	0.0059	0.0000
2012	0.0466	0.0104	0.0176	0.0010	0.0037	0.0128	0.1513	0.0071	0.0842	0.2467	0.0029	0.0194	0.0033	0.0367	0.2344	0.0130	0.0627	0.0335	0.0109	0.0018	0.0000
2013	0.0439	0.0037	0.0150	0.0007	0.0021	0.0079	0.1402	0.0032	0.0808	0.2487	0.0019	0.0245	0.0024	0.0407	0.2449	0.0111	0.0746	0.0454	0.0072	0.0011	0.0000
2014	0.0435	0.0241	0.0251	0.0004	0.0009	0.0068	0.1292	0.0009	0.0996	0.2241	0.0012	0.0309	0.0063	0.0433	0.2248	0.0052	0.0759	0.0482	0.0061	0.0034	0.0000

Projected Gas-Intent Drill Days by Area - Lower Price Case																					
DrYr	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
2011	2,016	1,530	343	35	301	758	4,890	638	2,709	8,569	122	1,076	122	2,532	8,490	840	1,200	1,051	1,085	234	0
2012	0	80	31	0	0	133	2,729	0	2,046	5,527	0	208	0	921	6,002	280	496	668	0	0	0
2013	0	27	17	0	0	125	1,038	0	561	5,323	0	193	1	1,002	6,323	259	600	564	0	0	0
2014	0	9	7	0	0	118	480	0	225	4,683	0	179	0	1,001	6,261	158	564	423	0	0	0

Projected Fraction of Total Gas-Intent Drill Days by Area - Lower Price Case																					
DrYr	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
2011	0.0523	0.0397	0.0089	0.0009	0.0078	0.0197	0.1269	0.0166	0.0703	0.2223	0.0032	0.0279	0.0032	0.0657	0.2203	0.0218	0.0311	0.0273	0.0282	0.0061	0.0000
2012	0.0000	0.0042	0.0016	0.0000	0.0000	0.0070	0.1427	0.0000	0.1070	0.2891	0.0000	0.0109	0.0000	0.0482	0.3139	0.0147	0.0259	0.0349	0.0000	0.0000	0.0000
2013	0.0000	0.0017	0.0011	0.0000	0.0000	0.0078	0.0648	0.0000	0.0350	0.3321	0.0000	0.0120	0.0000	0.0625	0.3944	0.0161	0.0374	0.0352	0.0000	0.0000	0.0000
2014	0.0000	0.0006	0.0005	0.0000	0.0000	0.0083	0.0340	0.0000	0.0159	0.3319	0.0000	0.0127	0.0000	0.0710	0.4438	0.0112	0.0400	0.0300	0.0000	0.0000	0.0000

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

Mid-Range Price Case							
Area name	Projected Annual Number of Wells Targeted to Resource Grouping			Connection Ratio	Projected Annual Number of Connections for Resource Grouping		
	2012	2013	2014		2012	2013	2014
Gas Connections							
00 - Alberta CBM	91	36	23	1.383	126	49	31
01 - Southern Alberta	183	45	20	1.174	214	50	22
Tight Portion	156	25	9	1.200	188	30	11
02 - Southwest Alberta	82	117	103	1.162	96	139	122
Tight Portion	3	1	1	1.031	3	1	1
03 - Southern Foothills	1	0	0	1.038	1	0	0
04 - Eastern Alberta	47	24	11	1.077	50	26	12
Tight Portion	13	7	4	0.963	13	7	3
05 - Central Alberta	80	47	32	1.071	86	49	33
Tight Portion	28	21	19	1.018	28	22	20
06 - West Central Alberta	514	459	388	1.013	521	465	395
Tight Portion	113	108	91	0.860	97	93	78
07 - Central Foothills	5	2	1	1.139	6	2	1
Tight Portion	1	0	0	0.859	1	0	0
08 - Kaybob	129	116	105	0.994	128	116	105
Tight Portion	26	24	22	1.000	26	24	22
Other Tight Portion	67	63	60	1.022	68	65	61
09 - Alberta Deep Basin	332	305	275	1.027	341	310	275
Tight Portion	19	18	17	0.802	16	14	13
Other Tight Portion	291	275	256	0.990	288	271	252
10 - Northeast Alberta	36	22	15	0.840	30	18	12
11 - Peace River	92	86	43	0.844	78	71	37
Tight Portion	15	19	22	0.910	13	18	20
12 - Northwest Alberta	26	16	5	0.743	19	12	4
13 - BC Deep Basin	43	40	26	1.033	45	42	28
Montney Portion	6	6	4	1.000	6	6	4
Other Tight Portion	13	10	4	0.942	12	10	4
14 - Fort St. John	277	263	238	1.049	290	270	241
Montney Portion	178	174	159	1.000	178	174	159
15 - Northeast BC	69	67	56	1.000	69	67	56
Horn River Shale Portion	39	43	43	1.000	39	43	43
Tight Portion	24	20	11	1.000	24	20	11
16 - BC Foothills	22	27	23	0.933	21	25	22
Tight Portion	7	9	9	0.672	4	6	9
17 - Southwest Saskatchewan	121	77	16	1.024	124	79	17
Tight Portion	121	77	16	1.024	124	79	17
18 - West Saskatchewan	9	5	3	1.108	10	6	4
19 - East Saskatchewan	0	0	0	N/A	0	0	0
Subtotal: Gas - Conventional (non-tight)	955	825	624	1.052	1,005	871	666
Subtotal: Gas - Tight	1,074	850	694	1	1,084	834	676
Montney portion of Tight	229	222	202	1	226	219	198
Subtotal: Gas - CBM	91	36	23	1.383	126	49	31
Subtotal: Gas - Shale	39	43	43	1.000	39	43	43
Gas Connections - CBM Breakdown							
AB - Main HSC	91	36	23	1.383	126	49	31
AB - Mannville CBM	0	0	0		0	0	0
AB - Other CBM	0	0	0		0	0	0
Subtotal: Gas - CBM	91	36	23	1.383	126	49	31
Total: All Gas	2,159	1,755	1,384	1.044	2,255	1,798	1,416

Higher Price Case							
Area name	Projected Annual Number of Wells Targeted to Resource Grouping			Connection Ratio	Projected Annual Number of Connections for Resource Grouping		
	2012	2013	2014		2012	2013	2014
Gas Connections							
00 - Alberta CBM	91	36	91	1.383	126	49	126
01 - Southern Alberta	183	45	214	1.174	214	50	219
Tight Portion	156	25	9	1.200	188	30	11
02 - Southwest Alberta	152	117	193	1.184	180	139	230
Tight Portion	3	1	9	1.031	3	1	9
03 - Southern Foothills	1	0	0	1.038	1	0	0
04 - Eastern Alberta	47	24	11	1.077	50	26	12
Tight Portion	13	7	4	0.963	13	7	3
05 - Central Alberta	87	47	38	1.066	93	49	40
Tight Portion	34	21	26	1.017	35	22	26
06 - West Central Alberta	553	459	464	1.015	562	465	474
Tight Portion	122	108	91	0.861	105	93	78
07 - Central Foothills	5	2	1	1.139	6	2	1
Tight Portion	1	0	0	0.859	1	0	0
08 - Kaybob	145	125	176	0.994	144	125	175
Montney Portion	37	33	53	1.000	37	33	53
Other Tight Portion	78	72	91	1.019	79	74	92
09 - Alberta Deep Basin	348	308	284	1.019	354	312	282
Montney Portion	29	21	26	0.802	24	17	21
Other Tight Portion	307	279	265	0.983	301	274	259
10 - Northeast Alberta	36	22	15	0.840	30	18	12
11 - Peace River	75	74	101	0.852	64	61	82
Tight Portion	15	19	22	0.910	13	18	20
12 - Northwest Alberta	20	14	33	0.787	16	10	23
13 - BC Deep Basin	36	36	43	1.053	38	38	44
Montney Portion	5	6	10	1.000	5	6	10
Other Tight Portion	6	7	16	0.948	6	7	15
14 - Fort St. John	297	273	260	1.046	311	281	263
Montney Portion	200	188	184	1.000	200	188	184
15 - Northeast BC	82	80	84	1.000	82	80	84
Horn River Shale Portion	54	58	73	1.000	54	58	73
Tight Portion	24	20	11	1.000	24	20	11
16 - BC Foothills	23	29	32	0.940	22	27	30
Tight Portion	9	12	14	0.504	4	9	12
17 - Southwest Saskatchewan	107	64	58	1.024	110	66	59
Tight Portion	107	64	58	1.024	110	66	59
18 - West Saskatchewan	9	5	18	1.108	10	6	20
19 - East Saskatchewan	0	0	0	N/A	0	0	0
Subtotal: Gas - Conventional (non-tight)	1,015	795	1,081	1.074	1,090	846	1,127
Subtotal: Gas - Tight	1,138	872	873	1	1,143	854	852
Montney portion of Tight	271	248	273	1	265	243	267
Subtotal: Gas - CBM	91	36	91	1.383	126	49	126
Subtotal: Gas - Shale	54	58	73	1.000	54	58	73
Gas Connections - CBM Breakdown							
AB - Main HSC	91	36	91	1.383	126	49	126
AB - Mannville CBM	0	0	0		0	0	0
AB - Other CBM	0	0	0		0	0	0
Subtotal: Gas - CBM	91	36	91	1.383	126	49	126
Total: All Gas	2,297	1,761	2,118	1.050	2,413	1,807	2,178

Lower Price 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	0	0	0		0	0	0
01 - Southern Alberta	19	7	2	1.020	20	7	2
Tight Portion	0	0	0		0	0	0
02 - Southwest Alberta	7	4	2	1.206	9	5	2
Tight Portion	0	0	0	1.056	0	0	0
03 - Southern Foothills	0	0	0		0	0	0
04 - Eastern Alberta	0	0	0	0.677	0	0	0
Tight Portion	0	0	0		0	0	0
05 - Central Alberta	18	17	16	1.013	18	17	16
Tight Portion	18	17	16	1.013	18	17	16
06 - West Central Alberta	275	107	58	1.010	278	110	60
Tight Portion	65	11	1	0.860	56	10	1
07 - Central Foothills	0	0	0	1.312	0	0	0
Tight Portion	0	0	0		0	0	0
08 - Kaybob	94	26	11	1.004	94	26	11
Montney Portion	25	6	3	1.000	25	6	3
Other Tight Portion	64	18	8	1.022	65	19	8
09 - Alberta Deep Basin	197	189	173	0.987	195	186	170
Montney Portion	14	13	12	0.802	11	10	10
Other Tight Portion	191	184	172	0.986	189	181	170
10 - Northeast Alberta	0	0	0	0.840	0	0	0
11 - Peace River	16	13	10	0.822	13	11	9
Tight Portion	6	7	8	0.911	5	6	7
12 - Northwest Alberta	0	0	0	0.277	0	0	0
13 - BC Deep Basin	23	26	26	1.061	25	27	27
Montney Portion	0	0	0		0	0	0
Other Tight Portion	3	7	7	0.936	3	6	7
14 - Fort St. John	190	200	198	0.986	187	197	195
Montney Portion	144	151	147	1.000	144	151	147
15 - Northeast BC	36	38	31	1.000	36	38	31
Horn River Shale Portion	18	22	21	1.000	18	22	21
Tight Portion	18	17	10	1.000	18	17	10
16 - BC Foothills	12	10	8	0.897	11	9	7
Tight Portion	2	2	3	2.686	4	2	2
17 - Southwest Saskatchewan	0	0	0		0	0	0
Tight Portion	0	0	0		0	0	0
18 - West Saskatchewan	0	0	0		0	0	0
19 - East Saskatchewan	0	0	0	N/A	0	0	0
Subtotal: Gas - Conventional (non-tight)	321	186	128	1.033	332	190	130
Subtotal: Gas - Tight	548	430	385	1	534	423	379
Montney portion of Tight	183	170	163	1	180	167	161
Subtotal: Gas - CBM	0	0	0		0	0	0
Subtotal: Gas - Shale	18	22	21	1.000	18	22	21
Gas Connections - CBM Breakdown							
AB - Main HSC	0	0	0		0	0	0
AB - Mannville CBM	0	0	0		0	0	0
AB - Other CBM	0	0	0		0	0	0
Subtotal: Gas - CBM	0	0	0		0	0	0
Total: All Gas	887	637	533	0.997	884	634	530

APPENDIX C

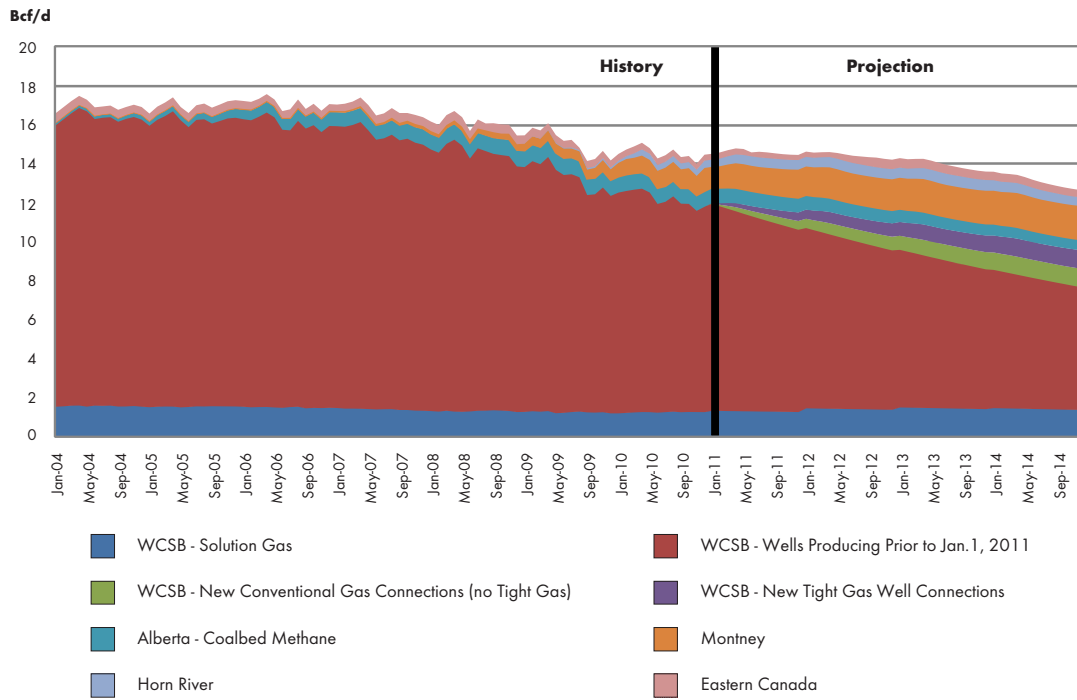
Deliverability Details by Case

C.1 - Canadian Gas Deliverability by Area/Resource – Mid-Range Price Case										
Area/Resource	Historical				Projection					
	2010		2011 *		2012		2013		2014	
	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	23.0	812	22.0	777	20.4	721	18.6	655	16.9	597
HSC Portion	17.9	633	16.9	598	15.6	550	14.1	498	12.8	451
Mannville Portion	3.0	107	2.9	104	2.9	101	2.6	92	2.4	85
Other CBM Portion	2.0	72	2.1	75	2.0	70	1.8	65	1.7	61
01 - Southern Alberta	38.4	1,355	36.1	1,274	31.7	1,121	27.2	959	23.1	815
Tight Portion	25.1	885	23.9	843	20.8	735	17.7	626	15.1	532
02 - Southwest Alberta	8.0	283	7.4	262	7.2	254	7.4	262	7.7	271
Tight Portion	2.3	82	2.2	76	1.9	66	1.6	56	1.3	47
03 - Southern Foothills	4.6	163	4.7	166	4.1	145	3.6	126	3.1	109
04 - Eastern Alberta	18.8	662	17.1	603	16.5	582	16.0	563	15.1	534
Tight Portion	0.4	15	0.4	14	0.3	12	0.3	11	0.3	9
05 - Central Alberta	22.3	787	20.4	721	19.1	675	17.8	629	16.1	568
Tight Portion	1.9	68	1.8	63	1.8	62	1.7	59	1.5	55
06 - West Central Alberta	44.6	1,574	43.9	1,549	45.1	1,593	44.6	1,574	42.9	1,516
Tight Portion	15.0	528	14.7	519	14.0	496	13.2	465	12.2	429
07 - Central Foothills	23.0	814	21.2	747	18.6	655	16.1	569	13.9	492
Tight Portion	1.3	45	1.2	41	1.1	37	0.9	32	0.8	27
08 - Kaybob	23.0	813	21.7	767	21.5	758	20.5	725	19.2	679
Montney Portion	2.9	104	3.1	108	3.5	124	3.9	136	4.1	144
Other Tight Portion	7.4	261	6.7	238	6.3	221	5.8	205	5.3	188
09 - Alberta Deep Basin	59.0	2,082	57.0	2,014	58.2	2,053	58.0	2,047	57.0	2,012
Montney Portion	2.5	88	3.0	105	4.0	140	5.2	183	6.4	226
Other Tight Portion	46.6	1,646	45.0	1,587	45.0	1,589	44.1	1,558	42.7	1,507
10 - Northeast Alberta	12.0	423	10.4	366	9.4	333	8.6	304	7.9	279
11 - Peace River	20.0	705	19.7	695	18.9	667	17.9	633	16.5	582
Tight Portion	6.2	219	6.3	221	5.6	196	5.1	180	4.8	168
12 - Northwest Alberta	10.6	374	9.2	326	8.3	293	7.2	254	6.0	211
Tight Portion	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1
13 - BC Deep Basin	16.0	564	19.1	675	19.1	675	18.3	645	17.3	609
Montney Portion	1.9	69	2.2	79	2.5	90	2.2	79	2.0	72
Other Tight Portion	11.1	392	13.0	460	11.9	419	10.6	373	9.2	326
14 - Fort St. John	34.0	1,199	45.8	1,618	52.4	1,851	55.4	1,955	56.6	1,998
Montney Portion	18.1	640	27.7	976	35.8	1,263	40.2	1,418	42.7	1,508
15 - Northeast BC	15.9	563	19.8	698	21.1	746	21.5	761	19.2	677
Horn River Shale Portion	8.7	306	14.0	495	15.7	555	16.6	587	14.8	522
Tight Portion	5.7	200	4.3	153	4.1	145	3.8	133	3.4	118
16 - BC Foothills	16.0	566	17.2	607	15.5	546	14.0	492	12.6	444
Tight Portion	3.4	119	4.9	174	4.3	152	3.8	133	3.3	117
17 - Southwest Saskatchewan	8.1	285	6.8	239	6.0	211	5.2	184	4.5	159
Tight Portion	7.5	264	6.3	221	5.5	194	4.7	166	4.0	142
18 - West Saskatchewan	4.1	146	3.8	134	3.5	123	3.1	111	2.8	101
19 - East Saskatchewan	2.0	71	2.1	74	2.4	85	2.5	88	2.5	90
22 - Yukon and Northwest Territories	0.6	20	0.5	17	0.4	15	0.4	13	0.3	11
Total Conventional (no tight, no solution gas)	176.4	6,228	165.6	5,844	153.7	5,427	141.5	4,995	129.1	4,558
Total Tight	159.3	5,624	166.5	5,877	168.3	5,942	164.6	5,812	159.1	5,617
Montney Portion	25.5	901	35.9	1,269	45.8	1,617	51.4	1,816	55.2	1,950
Total Solution Gas	36.6	1,292	37.9	1,337	41.3	1,459	42.5	1,499	41.4	1,460
Total CBM	23.0	812	22.0	777	20.4	721	18.6	655	16.9	597
Total Shale	8.7	306	14.0	495	15.7	555	16.6	587	14.8	522
Total WCSB	404.0	14,262	405.9	14,330	399.6	14,105	383.8	13,548	361.3	12,754
Atlantic Canada	8.9	313	7.6	269	9.9	350	12.6	444	11.1	392
Other Canada	0.5	16	0.5	16	0.4	15	0.4	14	0.4	14
Total Canada	413.3	14,592	414.0	14,615	409.9	14,469	396.8	14,006	372.8	13,160

* matched to 2011 actual production for January – August.

FIGURE C1

Outlook for Total Canadian Gas Deliverability - Mid-Range Price Case

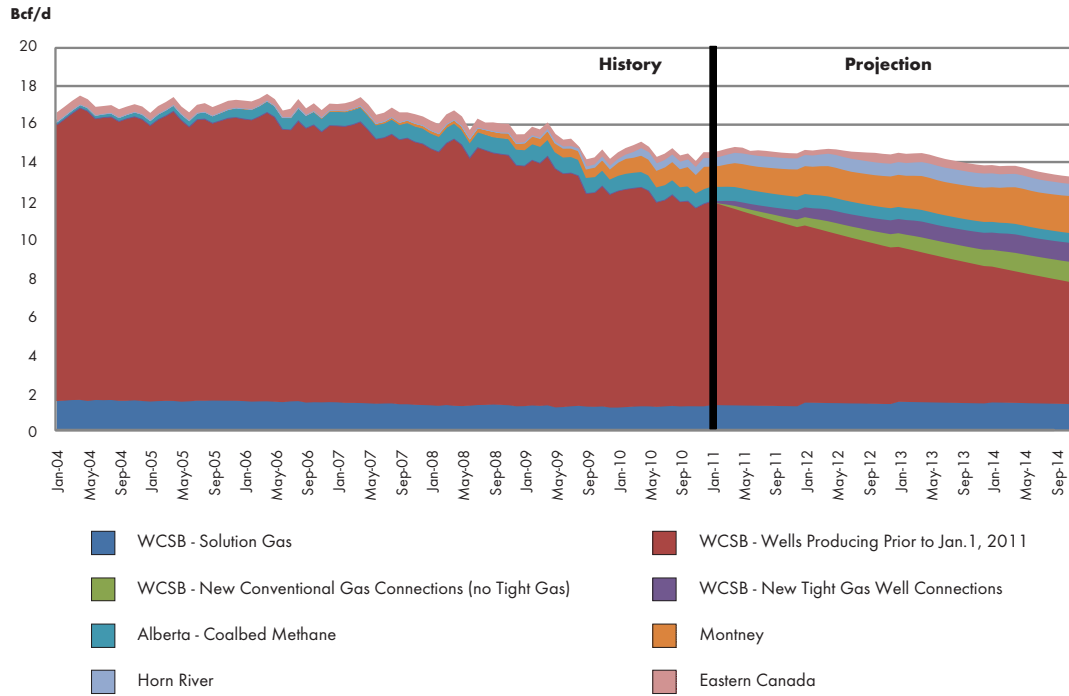


C.2 - Canadian Gas Deliverability by Area/Resource - Higher Price Case										
Area/Resource	Historical				Projection					
	2010		2011 *		2012		2013		2014	
	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d
00 - Alberta CBM	23.0	812	22.0	777	20.4	721	18.6	655	17.0	598
HSC Portion	17.9	633	16.9	598	15.6	550	14.1	498	12.8	452
Mannville Portion	3.0	107	2.9	104	2.9	101	2.6	92	2.4	85
Other CBM Portion	2.0	72	2.1	75	2.0	70	1.8	65	1.7	61
01 - Southern Alberta	38.4	1,355	36.1	1274	31.7	1,121	27.2	959	23.4	827
Tight Portion	25.1	885	23.9	843	20.8	735	17.7	626	15.1	532
02 - Southwest Alberta	8.0	283	7.4	262	7.8	274	8.2	290	9.0	317
Tight Portion	2.3	82	2.2	76	1.9	66	1.6	56	1.4	48
03 - Southern Foothills	4.6	163	4.7	166	4.1	145	3.6	126	3.1	109
04 - Eastern Alberta	18.8	662	17.1	603	16.5	582	16.0	563	15.1	534
Tight Portion	0.4	15	0.4	14	0.3	12	0.3	11	0.3	9
05 - Central Alberta	22.3	787	20.4	721	19.2	676	17.8	630	16.2	570
Tight Portion	1.9	68	1.8	63	1.8	63	1.7	60	1.6	57
06 - West Central Alberta	44.6	1,574	43.9	1549	45.4	1,603	45.0	1,588	43.5	1,535
Tight Portion	15.0	528	14.7	519	14.1	498	13.3	468	12.2	431
07 - Central Foothills	23.0	814	21.2	747	18.6	655	16.1	569	13.9	492
Tight Portion	1.3	45	1.2	41	1.1	37	0.9	32	0.8	27
08 - Kaybob	23.0	813	21.7	767	21.8	769	21.1	746	20.9	737
Montney Portion	2.9	104	3.1	108	3.7	132	4.4	155	5.4	191
Other Tight Portion	7.4	261	6.7	238	6.3	221	5.8	205	5.3	188
09 - Alberta Deep Basin	59.0	2,082	57.0	2014	58.6	2,070	59.0	2,081	58.5	2,066
Montney Portion	2.5	88	3.0	105	4.4	154	6.0	213	7.8	277
Other Tight Portion	46.6	1,646	45.0	1587	45.1	1,592	44.2	1,561	42.8	1,510
10 - Northeast Alberta	12.0	423	10.4	366	9.4	333	8.6	304	7.9	279
11 - Peace River	20.0	705	19.7	695	18.6	658	17.4	614	16.7	589
Tight Portion	6.2	219	6.3	221	5.6	196	5.1	180	4.8	168
12 - Northwest Alberta	10.6	374	9.2	326	8.3	292	7.2	253	6.1	216
Tight Portion	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1
13 - BC Deep Basin	16.0	564	19.1	675	18.9	667	17.8	629	17.4	613
Montney Portion	1.9	69	2.2	79	2.5	88	2.1	75	2.2	77
Other Tight Portion	11.1	392	13.0	460	11.7	413	10.2	359	9.2	324
14 - Fort St. John	34.0	1,199	45.8	1618	53.4	1,886	57.4	2,026	59.5	2,102
Montney Portion	18.1	640	27.7	976	36.8	1,298	42.2	1,488	45.7	1,612
15 - Northeast BC	15.9	563	19.8	698	22.3	788	23.9	844	21.8	771
Horn River Shale Portion	8.7	306	14.0	495	16.9	597	19.0	671	17.5	617
Tight Portion	5.7	200	4.3	153	4.1	145	3.8	133	3.4	118
16 - BC Foothills	16.0	566	17.2	607	15.5	546	13.9	492	12.7	449
Tight Portion	3.4	119	4.9	174	4.3	152	3.8	135	3.4	121
17 - Southwest Saskatchewan	8.1	285	6.8	239	6.0	211	5.2	183	4.5	159
Tight Portion	7.5	264	6.3	221	5.5	194	4.7	166	4.0	142
18 - West Saskatchewan	4.1	146	3.8	134	3.5	123	3.1	111	2.9	101
19 - East Saskatchewan	2.0	71	2.1	74	2.4	85	2.5	88	2.5	90
22 - Yukon and Northwest Territories	0.6	20	0.5	17	0.4	15	0.4	13	0.3	11
Total Conventional (no tight, no solution gas)	176.4	6,228	165.6	5844	154.2	5,445	142.1	5,015	131.9	4,657
Total Tight	159.3	5,624	166.5	5877	169.9	5,997	167.8	5,925	165.2	5,833
Montney Portion	25.5	901	35.9	1269	47.4	1672	54.7	1932	61.1	2156
Total Solution Gas	36.6	1292	37.9	1337	41.3	1459	42.5	1499	41.4	1460
Total CBM	23.0	812	22.0	777	20.4	721	18.6	655	17.0	598
Total Shale	8.7	306	14.0	495	16.9	597	19.0	671	17.5	617
Total WCSB	404.0	14,262	405.9	14330	402.8	14,220	389.9	13,765	373.0	13,167
Atlantic Canada	8.9	313	7.6	269	9.9	350	12.6	444	11.1	392
Other Canada	0.5	16	0.5	16	0.4	15	0.4	14	0.4	14
Total Canada	413.3	14,592	414.0	14615	413.1	14,585	402.9	14,224	384.5	13,572

* matched to 2011 actual production for January - August.

FIGURE C 2

Outlook for Canadian Gas Deliverability – Higher Price Case

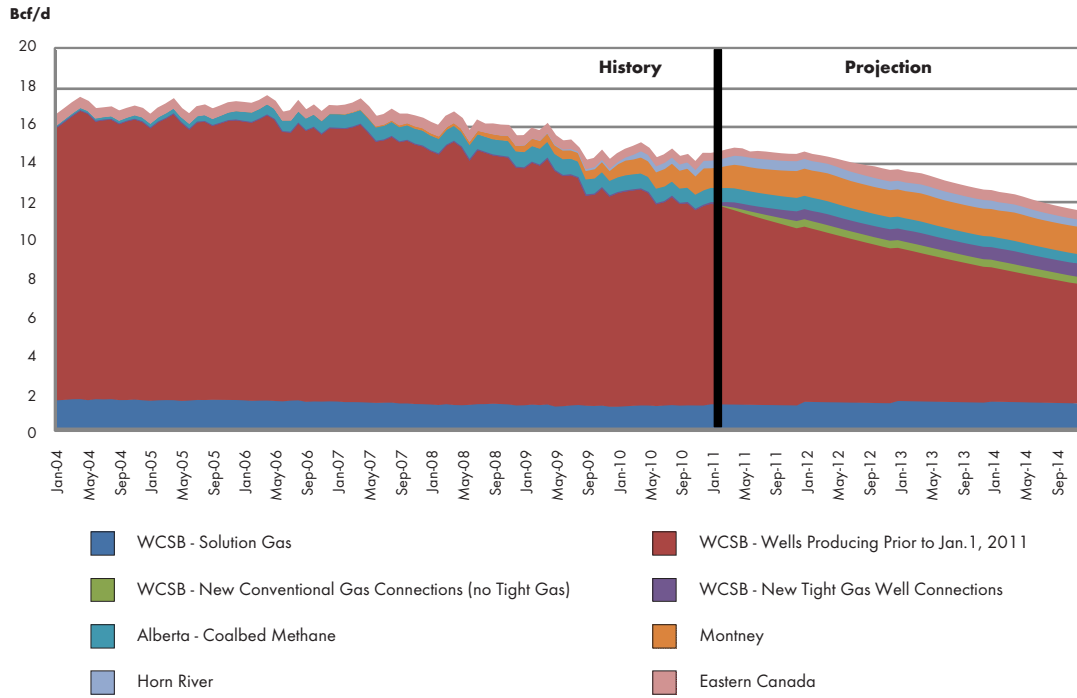


C.3 - Canadian Gas Deliverability by Area/Resource – Lower Price Case										
Area/Resource	Historical				Projection					
	2010		2011 *		2012		2013		2014	
	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d	10 ⁶ m ³ /d	MMcf/d
00 - Alberta CBM	23.0	812	22.0	777	20.4	719	18.4	651	16.8	593
HSC Portion	17.9	633	16.9	598	15.5	548	14.0	494	12.6	446
Mannville Portion	3.0	107	2.9	104	2.9	101	2.6	92	2.4	85
Other CBM Portion	2.0	72	2.1	75	2.0	70	1.8	65	1.7	61
01 - Southern Alberta	38.4	1,355	36.1	1,274	31.6	1,115	26.8	948	22.8	805
Tight Portion	25.1	885	23.9	843	20.7	729	17.5	617	14.9	525
02 - Southwest Alberta	8.0	283	7.4	262	6.7	236	5.8	204	5.0	176
Tight Portion	2.3	82	2.2	76	1.9	66	1.6	55	1.3	47
03 - Southern Foothills	4.6	163	4.7	166	4.1	144	3.5	124	3.0	108
04 - Eastern Alberta	18.8	662	17.1	603	16.4	579	15.8	557	15.0	528
Tight Portion	0.4	15	0.4	14	0.3	12	0.3	10	0.2	9
05 - Central Alberta	22.3	787	20.4	721	19.0	671	17.6	620	15.9	560
Tight Portion	1.9	68	1.8	63	1.7	60	1.6	56	1.5	52
06 - West Central Alberta	44.6	1,574	43.9	1,549	43.7	1,544	40.6	1,433	36.7	1,296
Tight Portion	15.0	528	14.7	519	13.6	481	11.8	416	9.9	350
07 - Central Foothills	23.0	814	21.2	747	18.4	651	15.9	562	13.8	486
Tight Portion	1.3	45	1.2	41	1.0	36	0.8	30	0.7	25
08 - Kaybob	23.0	813	21.7	767	21.1	747	19.0	670	16.3	575
Montney Portion	2.9	104	3.1	108	3.5	123	3.4	120	3.0	106
Other Tight Portion	7.4	261	6.7	238	6.2	220	5.5	194	4.7	165
09 - Alberta Deep Basin	59.0	2,082	57.0	2,014	56.1	1,981	53.3	1,882	50.6	1,787
Montney Portion	2.5	88	3.0	105	3.8	133	4.6	161	5.4	191
Other Tight Portion	46.6	1,646	45.0	1,587	43.6	1,539	40.9	1,443	38.4	1,354
10 - Northeast Alberta	12.0	423	10.4	366	9.4	330	8.5	299	7.7	274
11 - Peace River	20.0	705	19.7	695	18.1	639	16.1	568	14.4	508
Tight Portion	6.2	219	6.3	221	5.4	192	4.8	168	4.2	148
12 - Northwest Alberta	10.6	374	9.2	326	8.2	289	7.0	246	5.7	202
Tight Portion	0.0	1	0.0	1	0.0	1	0.0	1	0.0	1
13 - BC Deep Basin	16.0	564	19.1	675	18.5	652	16.8	594	15.9	561
Montney Portion	1.9	69	2.2	79	2.3	81	1.7	59	1.4	49
Other Tight Portion	11.1	392	13.0	460	11.6	410	10.0	355	8.8	312
14 - Fort St. John	34.0	1,199	45.8	1,618	50.8	1,793	52.0	1,834	52.8	1,863
Montney Portion	18.1	640	27.7	976	34.2	1,209	37.0	1,305	39.3	1,386
15 - Northeast BC	15.9	563	19.8	698	19.3	681	17.8	630	15.6	549
Horn River Shale Portion	8.7	306	14.0	495	14.0	494	13.1	462	11.4	401
Tight Portion	5.7	200	4.3	153	4.0	142	3.6	128	3.2	114
16 - BC Foothills	16.0	566	17.2	607	15.2	538	13.3	468	11.5	407
Tight Portion	3.4	119	4.9	174	4.2	150	3.6	128	3.1	110
17 - Southwest Saskatchewan	8.1	285	6.8	239	5.9	210	5.1	180	4.4	155
Tight Portion	7.5	264	6.3	221	5.4	192	4.6	162	3.9	138
18 - West Saskatchewan	4.1	146	3.8	134	3.5	122	3.1	110	2.8	100
19 - East Saskatchewan	2.0	71	2.1	74	2.4	85	2.5	88	2.5	90
22 - Yukon and North West Territories	0.6	20	0.5	17	0.4	15	0.4	13	0.3	11
Total Conventional (no tight, no solution gas)	176.4	6,228	165.6	5,845	149.9	5,293	132.0	4,659	116.1	4,098
Total Tight	159.3	5,624	166.5	5,876	163.6	5,775	153.2	5,409	143.9	5,080
Montney Portion	25.5	901	35.9	1269	43.8	1545	46.6	1646	49.0	1731
Total Solution Gas	36.6	1292	37.9	1337	41.3	1459	42.5	1499	41.4	1460
Total CBM	23.0	812	22.0	777	20.4	719	18.4	651	16.8	593
Total Shale	8.7	306	14.0	495	14.0	494	13.1	462	11.4	401
Total WCSB	404.0	14,262	405.9	14,330	389.2	13,740	359.2	12,681	329.5	11,632
Atlantic Canada	8.9	313	7.6	269	9.9	350	12.6	444	11.1	392
Other Canada	0.5	16	0.5	16	0.4	15	0.4	14	0.4	14
Total Canada	413.3	14,592	414.0	14,615	399.6	14,105	372.2	13,139	341.0	12,038

* matched to 2011 actual production for January – August.

FIGURE C3

Outlook for Canadian Gas Deliverability – Lower Price Case



APPENDIX D

Total Canadian Deliverability Comparison by Case

FIGURE D 1

Total Canadian Deliverability Comparison by Case

