

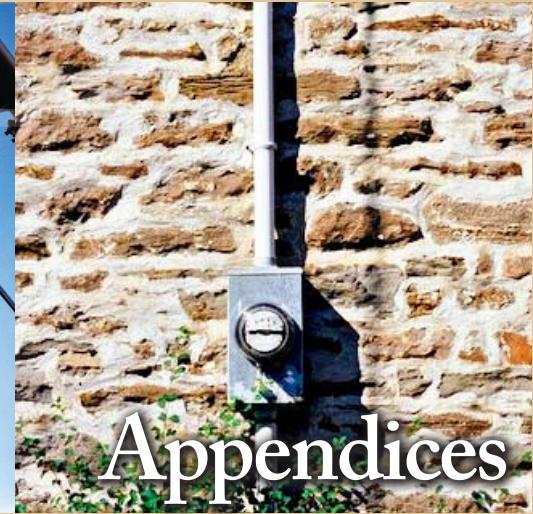


National Energy  
Board

Office nationale  
de l'énergie

# Short-term Canadian Natural Gas Deliverability

2010-2012



## Appendices

AN ENERGY MARKET ASSESSMENT MARCH 2010

Canada





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## 2010 - 2012

gas

## Appendices

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# APPENDIX A

## A1 Methodology (Detailed Description)

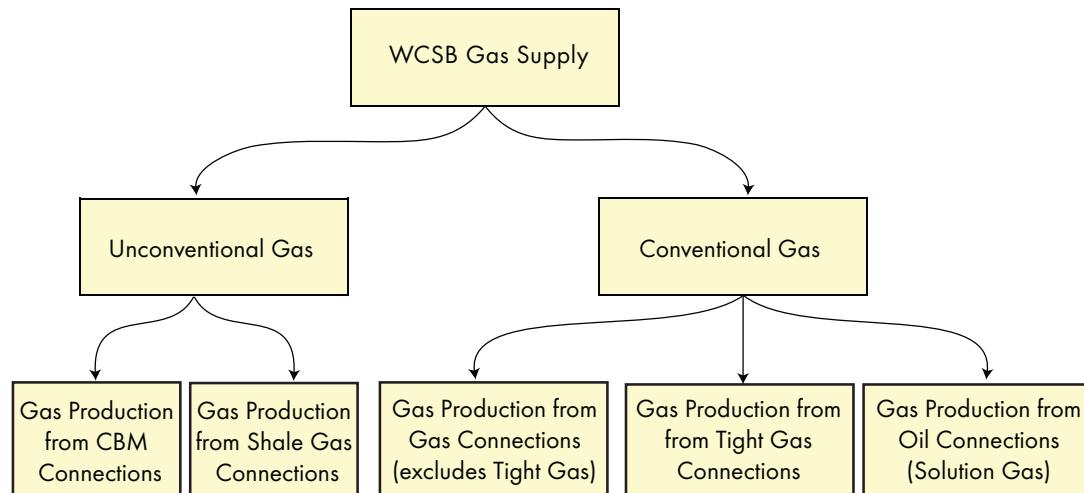
Canadian natural gas deliverability over the projection period will consist of conventional gas supply from the WCSB with contributions from Atlantic Canada, CBM production from Alberta and shale gas production in BC. In this report, trends in well production characteristics and resource development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

### A1.1 WCSB Gas Supply

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

The methodology to determine gas deliverability associated with conventional gas connections (including tight gas), CBM connections and shale gas is described in section 1.1 below. Tight gas is again reported as conventional gas in this report, due to the lack of clear and widely recognized criteria that would enable the segregation of tight gas connections. The methodology to determine gas deliverability associated with oil connections (solution gas) is less detailed and is described in section 1.2 of this appendix.

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



## A1.1.1 Gas Connections from Gas Wells

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

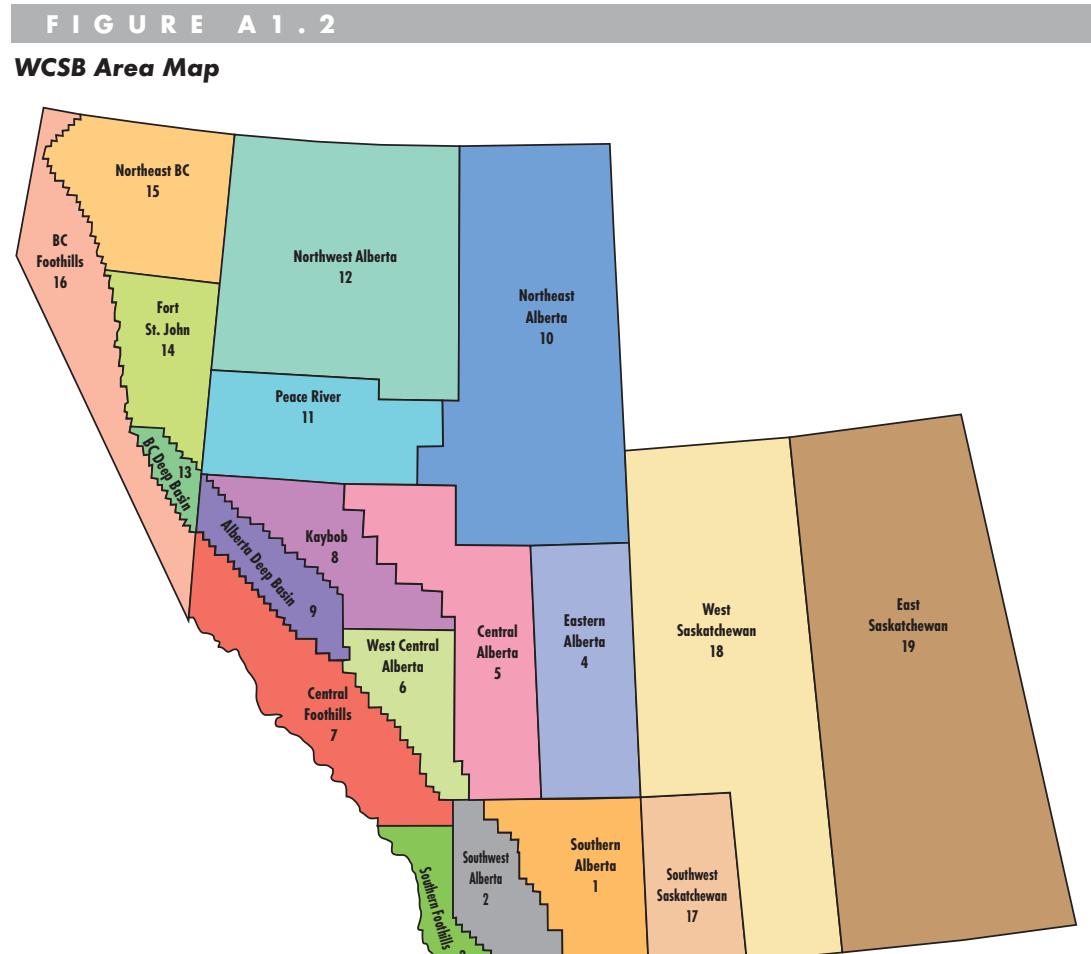
### A1.1.1.1 Groupings for Production Decline Analysis

Different groupings of conventional gas connections (including tight gas), shale gas and CBM connections were made to assess well performance characteristics. Conventional gas connections were grouped geographically on the basis of the Petrocube areas in Alberta, B.C. and Saskatchewan, as shown in Figure A1.2. Conventional gas connections in each area were also grouped by zone.

Within each Petrocube area and zone, gas connections were also grouped by connection year, with all connections made prior to 1998 forming a single grouping and separate groupings for each year from 1998 through 2008.

CBM connections were grouped primarily by zone into three categories:

- Horseshoe Canyon main play



- 
- Mannville CBM, and
  - Other CBM

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

Within each of the three categories of CBM resources, connections were also grouped by connection year. Due to the relatively short period of commercial production, there are fewer connection year groupings. For the Horseshoe Canyon Main Play and Other CBM categories, there is a single grouping for all connections made prior to 2003, and separate groupings for each year from 2003 through 2008. For Mannville CBM, a single grouping was made for all connections made prior to 2005, and separate groupings for each following year.

### **Existing Connections vs. Future Connections**

In this report, “existing connections” are connections brought on production prior to January 1, 2009, and “future connections” are connections brought on production after January 1, 2009. The methodology applied to make the gas deliverability projections for existing connections is substantially different from what is done to assess deliverability for future connections.

#### *A1.1.1.2 Methodology for Existing Connections*

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

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

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

### **Production Decline Analysis Methodology**

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

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

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

- Raw well production for gas connections in each grouping is summed by calendar month getting total group raw production by calendar month.

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

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

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

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

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

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

- **Evaluate Connection Year 1998 through 2008**

After the initial aggregate connection year is evaluated for a grouping, each connection year is evaluated in sequence, from 1998 through 2008.

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

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

- Initial Production Rate

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

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

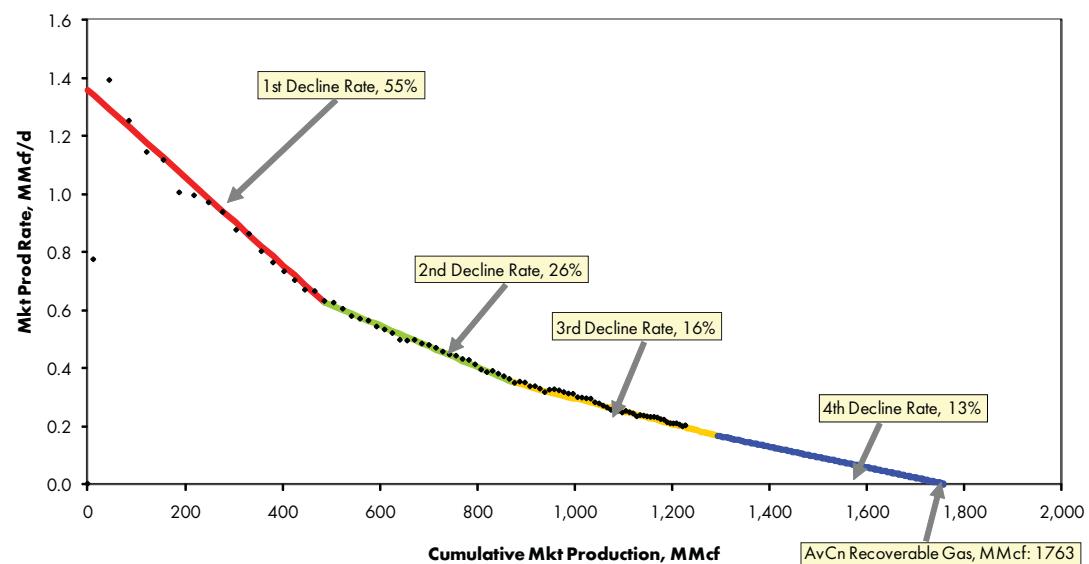
For the earlier connection years, the available data is usually sufficient to establish all of the above parameters. For more recent connection years, the duration of historical production data becomes smaller and the parameters describing the later life decline performance must be taken from that determined for earlier connection years. In the example shown in Figure A1.3, the available data is sufficient to determine parameters defining the first, second and third decline periods for the connection, but the parameters defining the fourth decline period must be assumed based on the analysis of earlier connection years.

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

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

**FIGURE A1.3**

**Example of Average Connection Production Decline Analysis Plot**



Source: NEB analysis of Divestco Geovista well production data

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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.

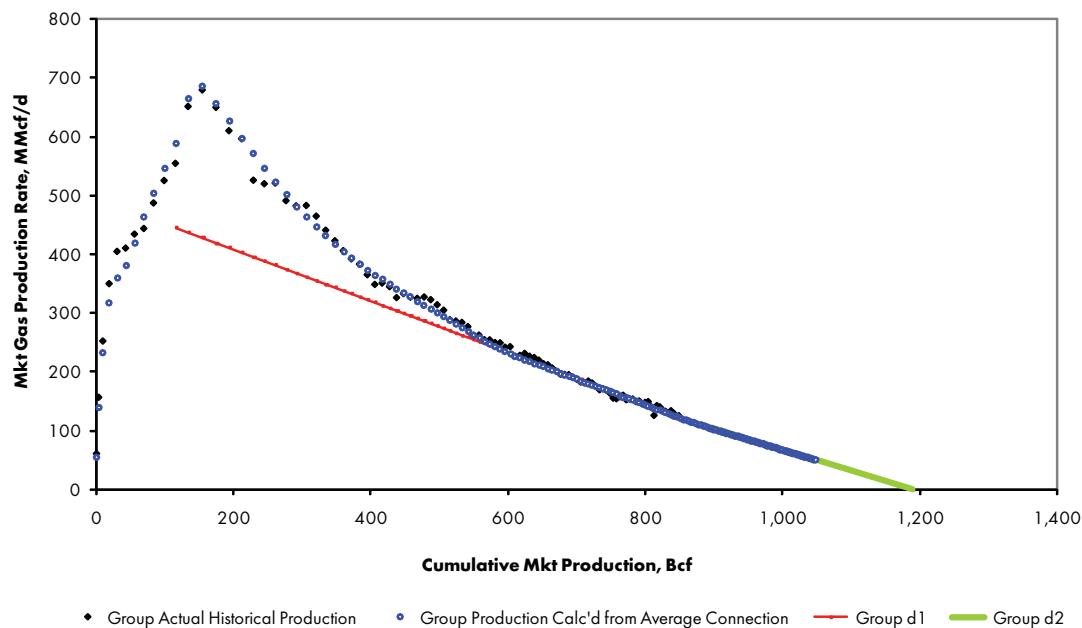
The following group performance parameters are determined from the group plot:

- Production Rate as of December 2008
- First Decline Rate
- Second Decline Rate (if applicable)
- Months to Second Decline Rate (if applicable)
- Third Decline Rate (if applicable)
- Months to Third Decline Rate (if applicable)
- Fourth Decline Rate (if applicable)
- Months to Fourth Decline Rate (if applicable)

In the earlier connection year groupings (2000, 2001, etc) the actual group data is usually stabilized by the current date at or near the terminal decline rate established

**FIGURE A1.4**

**Example of Group Production Decline Analysis Plot**



Source: NEB analysis of Divestco Geovista well production data

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via the pre-1998 aggregate grouping. In these cases a single decline rate sufficiently describes the entire remaining productive life of the grouping. In these cases the expected performance calculated from average connection data has little influence over determination of the group parameters.

In later connection years (2008, 2007, 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 key to establishing the current and future decline rates applicable for the connection year.

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

### **Production Decline Analysis of CBM**

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

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

### **Production Decline Analysis of Montney Tight Gas and Horn River Shale Gas**

Decline parameters for the Montney tight gas (Triassic formation in BC Deep Basin and Fort St. John) and Horn River shale gas (Middle Devonian formation in Northeast B.C.) are estimated by taking decline constants from available industry data and consultation, selecting an appropriate type curve and creating linear equivalents. These parameter estimates will most likely change as more data becomes available and development of these resources continues.

#### **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 Board made drilling projections are used to estimate the number of future gas connections. Historical trends in average connection performance parameters, obtained from production decline analysis of existing gas connections, are used to estimate average connection performance parameters for future connection years.

#### A1.1.1.3.1 Performance of Future Connections

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

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

The key decline parameters impacting short-term deliverability are the first decline rate, second decline rate and months to second decline rate. Figure A1.6 shows the historical and projected values of these key decline parameters for the average connections during the years 1998 through 2012 for conventional gas connections in the Southwest Alberta Tertiary, Upper Cretaceous, Upper Colorado grouping. As shown in Figure A1.6, trends seen in the key decline parameters in past connection years are used to establish these parameters for future years.

#### A1.1.1.3.2 Number of Future Connections

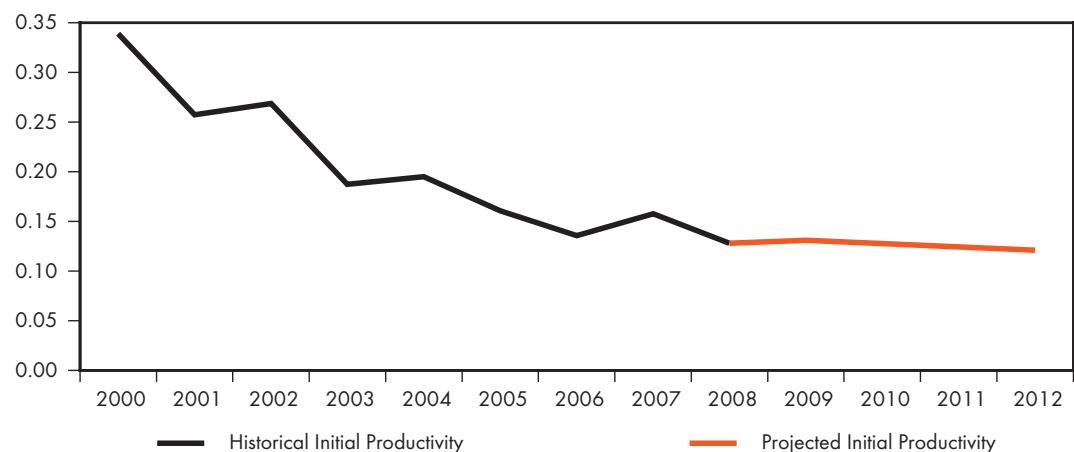
The number of future connections was estimated by first making a projection of the annual number of gas-intent (including tight gas), gas shale intent and CBM-intent wells for each resource grouping and then multiplying by the ratio of annual connections to annual wells.

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 scenarios of drilling activity in the WCSB. Other inputs required by the procedure are shown as green boxes in Figure A1.7. The values projected for these other inputs are estimated from an analysis of historical data.

FIGURE A1.5

#### **Example of Initial Productivity of Average Connections by Connection Year**

**Avg. Well Init. Prod., Mkt. MMcf/d**

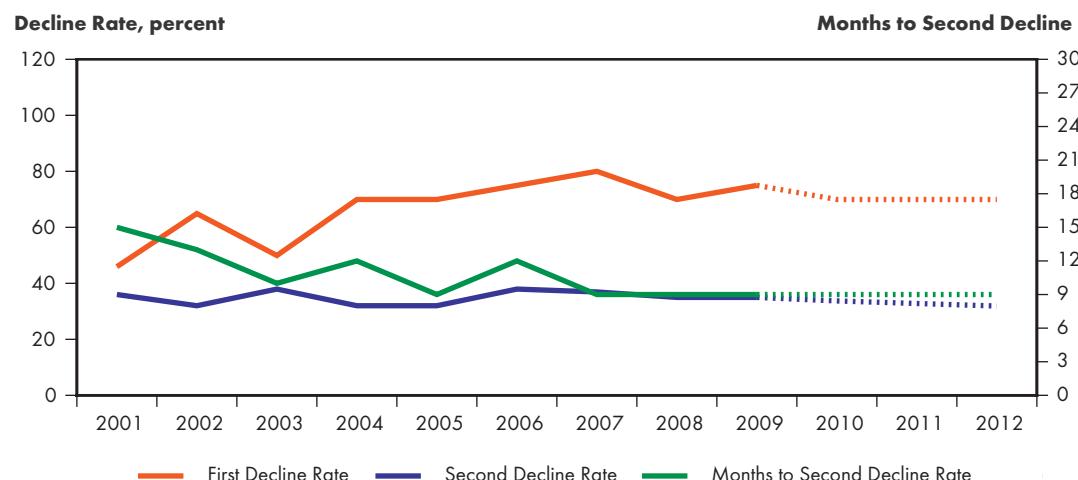


Source: NEB analysis of Divestco well production data

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**FIGURE A1.6**

**Example of Key Decline Parameters for Average Connections over time**



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

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

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

### A1.1.2 Solution Gas

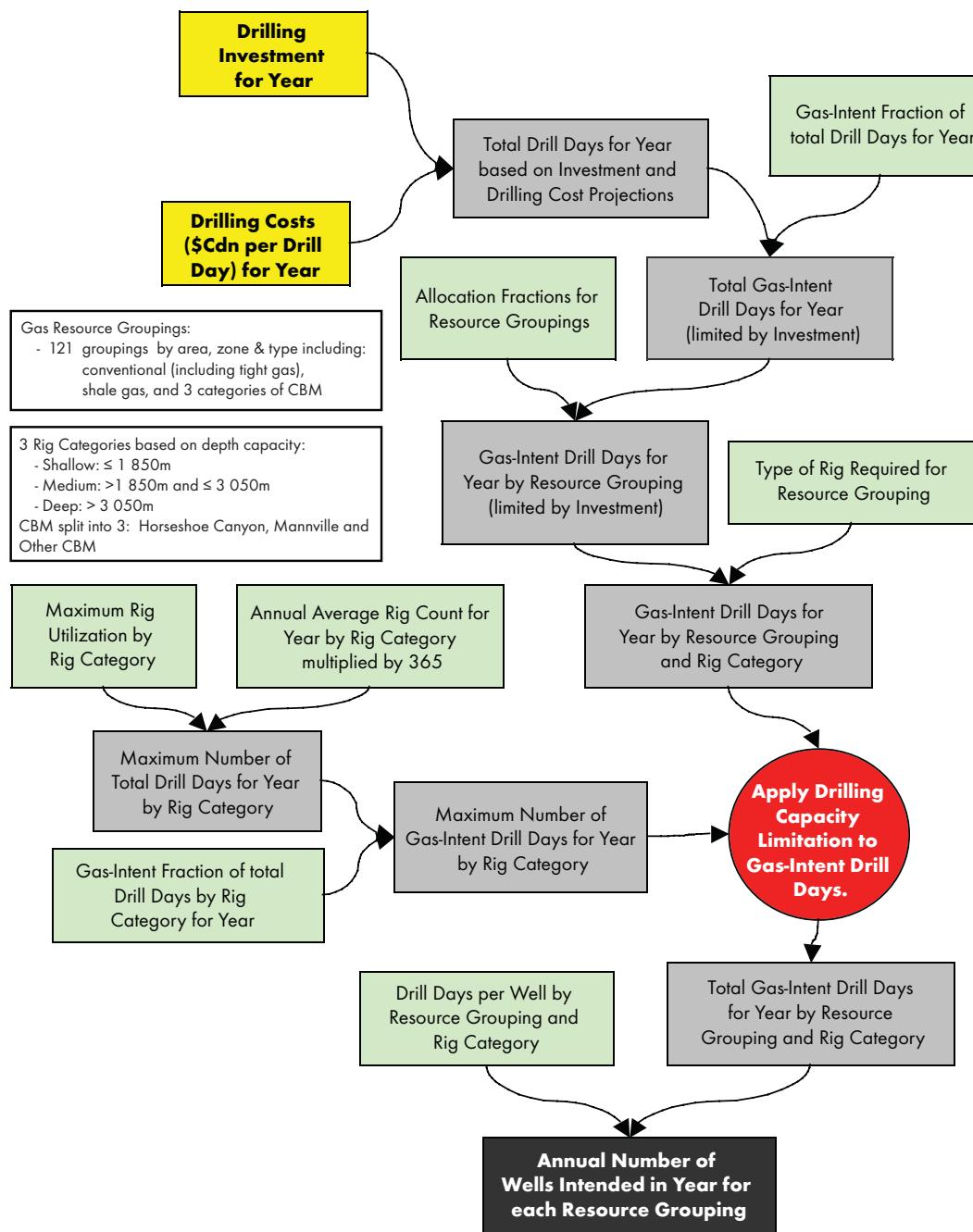
Solution gas is gas produced from oil wells in conjunction with the crude oil and accounts for about 8 percent of total marketable gas production in the WCSB. To estimate deliverability of solution gas, oil connections are grouped by study area and production decline analysis is performed on the entire grouping to obtain 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 three southerly areas close to the territorial border of 60 degrees north latitude. These three southerly

**FIGURE A1.7**

**Flowchart of NEB Drilling Projection Methodology**



areas are Kotaneelee, Cameron Hills and the Liard Plateau. Much further to the north, the Ikhil and Norman Wells fields also produce a small amount of gas that serves local purposes and is not tied into the North American pipeline grid. With the limited number of producing wells and development activity in these areas, production decline analysis for the existing gas connections is considered to provide a good estimate of future deliverability. No deliverability from the Mackenzie Delta and along the Mackenzie corridor is included during the projection period.

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

## A1.2 Atlantic Canada

For producing wells in the Nova Scotia offshore, production profiles are based on an average of the decline rates in the five producing fields. Other than the well drilled in the Alma field in 2009, no additional infill wells are assumed for the producing fields over the projection period. Offshore compression was fully in service by May 2007. The parameters used in the compression analysis are based on discussions with industry representatives. Deliverability from the Deep Panuke development is slated to start in 2011.

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

Testing of onshore CBM and shale gas prospects is ongoing. Due to the early stage of development, reasonable estimates of onshore CBM and shale gas productivity can not be developed.

## A1.3 Other Canadian Production

Deliverability from western Canada and Atlantic Canada discussed in the preceding sections of this chapter accounts for 99.9 percent of total Canadian production. This minor remaining amount of Canadian deliverability is sourced from Ontario. Deliverability from Ontario is projected by extrapolation of historical production volumes. Initial volumes of  $0.3 \cdot 10^6 \text{ m}^3/\text{d}$  (0.01 Bcf/d) of shale gas production from Quebec are included by 2011 with operations still largely in the evaluation stage during the projection period.

## A1.4 Canadian Deliverability and Canadian Demand

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

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

Current and projected Canadian gas demand is divided geographically at the Saskatchewan-Manitoba border into western and eastern Canada demand. Western Canada demand includes gas volumes withdrawn during the recovery of natural gas liquids at straddle plants. Approximately 85 to 90 percent 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 the traces of propane and heavier components remaining after field processing.

Western and eastern Canada gas demand includes gas required for pipeline fuel in the respective areas. The Board's projection of western and eastern Canada gas demand is based on historical trends and

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expected major increments of gas-fired power generation and industrial projects (including oil sands developments). The demand projection is based on the assumption of average weather conditions. Considerable variability in actual gas demand is possible due to the impact of weather variation on Canada's large space heating needs.

## **A2 Deliverability Parameters - Results**

### **A2.1 WCSB**

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

In the case of existing gas connections (those on production prior to January 1, 2009), and all oil connections (solution gas), production decline analysis is used to establish parameters that define future deliverability of each grouping. Section 1.1 below provides further discussion of the parameters resulting from the production decline analysis.

For future gas connections (those on production after January 1, 2009), 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 1.2 below provides discussion of the parameters used to project deliverability for future gas connections.

#### **A2.1.1 Production from Existing Gas Connections**

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

The deliverability parameters for these groupings *are not* impacted by the different scenarios considered in this report. The different scenarios 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 2008 and as many as four future decline rates that apply in specified time periods in the future. For the older groupings of wells where production appears to have stabilized at a final decline rate, only one future decline rate was needed to describe future group deliverability. For newer well groupings, the decline rate that applies over future months changes as the group performance progresses towards the final stable decline period. For these newer well groupings three or possibly four different decline rates have been determined to describe future performance.

The future deliverability projected for these groupings represents the deliverability that would occur from the WCSB if there were no further gas connections made after the end of 2008. The Board places a high degree of confidence in the deliverability projections made for these groupings, as deliverability projections made in previous reports for these categories of groupings have proved to be very close to actual performance.

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The Board's projections show that aggregate production for these groupings will decline by 17 percent over 2009, by a further 23 percent in 2010, 20 percent in 2011 and 17 percent in 2012. 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 the deliverability projections for existing gas connections have a high degree of certainty, the certainty associated with the projections for future gas connections is lower. The key uncertainty is the level of gas drilling that will occur. Three scenarios 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. In essence, the trends seen in average connection performance for the various groupings of existing connections are used to make an estimate of performance parameters for future gas connections.

For conventional gas connections (including tight gas), the connections are grouped on the basis of area, formation and connection year from 1998 to 2008. These 11 connection year groupings are assessed for each grouping, providing a good historical data set to estimate performance of future wells.

With respect to initial productivity of the average gas connection, the overall trend for the WCSB is shown in Figure A2.1. After decreases in initial productivity over 2000 to 2006, the trend reversed upwards for 2007 and carried on to 2008 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. That is, fewer wells than in the past have been drilled over the last few years, but the wells drilled are higher quality prospects, yielding a higher initial productivity rate.

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 for both historical and future connection year groupings.

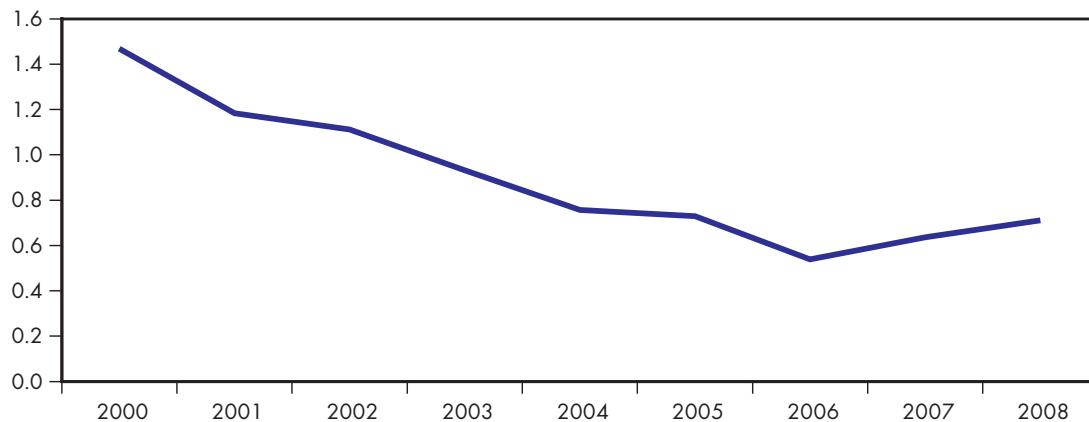
The average connection performance parameters projected for connection years 2009 through 2012 are the same in all three scenarios assessed in this report. Variance between the scenarios is effected by applying different levels of gas drilling activity as discussed further in section 1.2.2 of this appendix.

#### *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.

**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	2003	2004	2005	2006	2007	2008
00 - Alberta CBM	0.086	0.062	0.100	0.138	0.143	0.138
01 - Southern Alberta	0.150	0.152	0.132	0.116	0.115	0.126
02 - Southwest Alberta	0.510	0.339	0.305	0.295	0.269	0.408
03 - Southern Foothills	1.941	1.925	1.714	1.655	0.525	0.686
04 - Eastern Alberta	0.131	0.115	0.104	0.086	0.089	0.087
05 - Central Alberta	0.367	0.362	0.257	0.194	0.222	0.236
06 - West Central Alberta	0.525	0.477	0.518	0.494	0.480	0.767
07 - Central Foothills	2.742	1.747	2.316	1.260	2.034	2.162
08 - Kaybob	0.859	0.754	0.610	0.796	0.771	0.801
09 - Alberta Deep Basin	1.074	0.971	0.660	0.464	0.840	0.711
10 - Northeast Alberta	0.251	0.212	0.218	0.168	0.193	0.189
11 - Peace River	0.964	0.841	0.993	0.552	0.884	0.603
12 - Northwest Alberta	0.651	0.542	0.492	0.466	0.350	0.515
13 - BC Deep Basin	2.242	1.968	1.614	0.887	0.965	1.345
14 - Fort St. John	2.551	0.738	1.083	0.641	1.277	1.406
15 - Northeast BC	1.189	1.355	1.055	0.754	0.731	0.821
16 - BC Foothills	3.882	3.186	2.288	2.191	1.443	2.142
17 - Southwest Saskatchewan	0.077	0.067	0.085	0.086	0.068	0.063
18 - West Saskatchewan	0.169	0.166	0.179	0.159	0.186	0.109
Total WCSB	0.932	0.757	0.730	0.539	0.636	0.711

Source: NEB Analysis of Divestco Well Production Data

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 scenarios (Mid-Price, High-Price and Low-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 groupings in each scenario.

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

## 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 additional infill wells over the 2010 to 2012 period are assumed for the producing fields at this time.

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

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

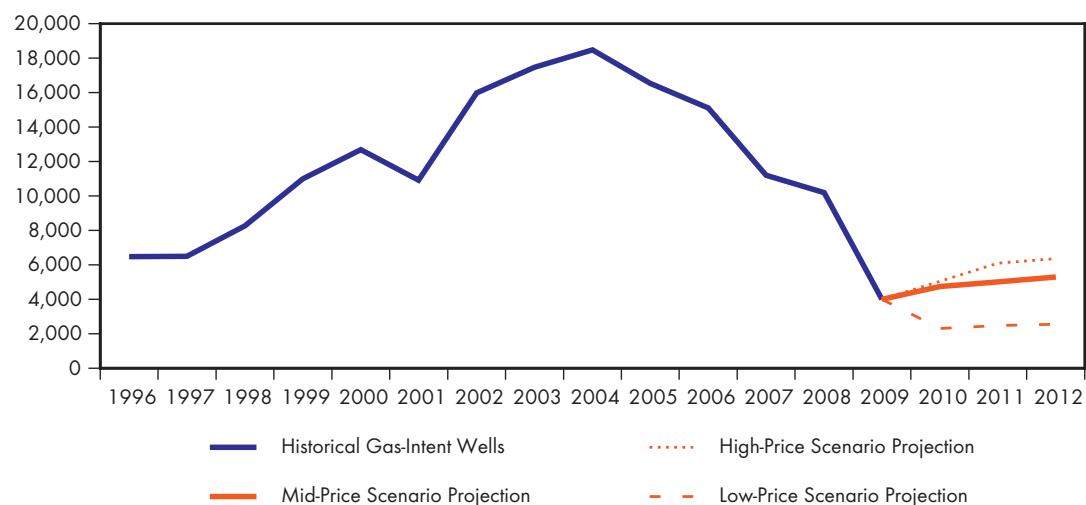
Testing of onshore CBM and shale gas prospects is ongoing in Atlantic Canada. Due to the early stage of development, reasonable estimates of onshore CBM productivity can not be developed.

Deliverability from Ontario is expected to continue to be relatively constant. Initial shale gas production from Quebec is included by 2011 but remains limited as operations are assumed to be still in the evaluation stage over the 2010 to 2012 period.

**FIGURE A2.2**

### WCSB Gas-Intent Drilling Scenarios

#### Annual Gas-Intent Wells



### A3 Decline Parameters for Groupings of Existing Gas Connections

**Table A3.1 - Formation Index**

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

**Table A3.2 - Grouping Index**

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

<b>Area name</b>	<b>Area Number</b>	<b>Resource Type</b>	<b>Resource Group</b>
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
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
Northeast Alberta	10	Conventional	Mnvl;UprDvn
Peace River	11	Conventional	UprColr
Peace River	11	Conventional	Colr;UprMnvl
Peace River	11	Conventional	Mdldmnl;LwrMnvl
Peace River	11	Conventional	UprTri
Peace River	11	Conventional	LwrTri
Peace River	11	Conventional	Miss
Peace River	11	Conventional	UprDvn;Mdldvn
Northwest Alberta	12	Conventional	Mnvl
Northwest Alberta	12	Conventional	Mnvl
Northwest Alberta	12	Conventional	Miss
Northwest Alberta	12	Conventional	UprDvn
Northwest Alberta	12	Conventional	Mdldvn
BC Deep Basin	13	Conventional	Colr
BC Deep Basin	13	Conventional	LwrTri
BC Deep Basin	13	Tight	Colr
BC Deep Basin	13	Tight	Mnvl
BC Deep Basin	13	Tight	LwrTri
Fort St. John	14	Conventional	Mnvl
Fort St. John	14	Conventional	Tri
Fort St. John	14	Conventional	Perm;Miss
Fort St. John	14	Conventional	Updvn;Mdldvn
Fort St. John	14	Tight	Tri
Northeast BC	15	Conventional	LwrMnvl
Northeast BC	15	Conventional	Perm;Miss
Northeast BC	15	Conventional	Updvn;Mdldvn
Northeast BC	15	Tight	UprDvn
Northeast BC	15	Shale	Mdldvn
BC Foothills	16	Conventional	Colr;Mnvl
BC Foothills	16	Conventional	Tri;Perm;Miss
Southwest Saskatchewan	17	Tight	UprColr
West Saskatchewan	18	Conventional	Colr
West Saskatchewan	18	Conventional	Mdldmnl;LwrMnvl;Miss
East Saskatchewan	19	Conventional	Solution Gas

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

<b>Resource Grouping - Gas - Alberta Coalbed Methane - Horseshoe Canyon</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2003	35.22	0.35	0.20	7	0.12	20
2004	117.60	0.10	0.18	15	0.12	40
2005	232.64	0.16	0.19	15	0.12	40
2006	315.51	0.15	0.19	15	0.12	27
2007	200.71	0.65	0.21	4	0.12	30
2008	154.39	0.65	0.20	4	0.12	30

<b>Resource Grouping - Gas - Alberta Coalbed Methane - Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2004	6.00	0.20	0.20	500	0.20	500
2005	9.34	0.25	0.18	40	0.13	80
2006	39.23	0.25	0.18	40	0.13	80
2007	26.00	0.10	0.40	11	0.20	25
2008	26.00	0.10	0.40	11	0.20	25

<b>Resource Grouping - Gas - Alberta Coalbed Methane - Other</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2003	3.76	0.85	0.50	8	0.22	20
2004	8.29	0.65	0.40	7	0.10	15
2005	9.30	0.55	0.25	7	0.15	20
2006	19.44	0.65	0.30	7	0.15	20
2007	27.69	0.70	0.30	7	0.15	20
2008	15.42	0.65	0.30	7	0.15	20

<b>Resource Grouping - Gas - Southern Alberta - Conventional - Tertiary, Upper Cretaceous, Upper Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	33.29	0.80	0.32	9	0.18	20
2001	30.96	0.85	0.25	8	0.14	20
2002	15.49	0.85	0.40	9	0.22	20
2003	27.80	0.60	0.35	5	0.22	15
2004	60.45	0.85	0.45	8	0.28	20
2005	41.52	0.85	0.40	8	0.22	20
2006	40.21	0.85	0.42	8	0.24	20
2007	47.60	0.75	0.42	8	0.22	20
2008	46.88	0.75	0.40	7	0.22	20

<b>Resource Grouping - Gas - Southern Alberta - Conventional - Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	19.20	0.99	0.38	14	0.18	30
2001	10.69	1.05	0.53	14	0.25	30
2002	10.42	1.05	0.52	13	0.25	30
2003	15.72	0.95	0.40	10	0.29	25
2004	18.74	1.05	0.45	10	0.29	25
2005	13.16	0.95	0.55	9	0.45	25
2006	8.89	1.35	0.85	9	0.45	18
2007	17.71	0.75	0.72	9	0.40	18
2008	21.15	0.80	0.45	9	0.22	20

<b>Resource Grouping - Gas - Southern Alberta - Conventional - Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	20.64	0.65	0.50	7	0.37	20
2001	21.85	0.95	0.67	9	0.33	23
2002	23.60	0.80	0.60	9	0.35	23
2003	28.83	0.50	0.40	7	0.35	20
2004	38.59	0.65	0.45	7	0.35	20
2005	26.69	0.60	0.55	7	0.45	20
2006	29.80	0.60	0.55	7	0.22	25
2007	56.75	0.65	0.40	7	0.22	20
2008	56.15	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - Southern Alberta - Tight - Upper Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	101.50	0.65	0.30	8	0.18	20
2001	99.33	0.75	0.30	7	0.18	20
2002	99.44	0.75	0.40	8	0.18	20
2003	138.35	0.65	0.40	7	0.18	18
2004	198.63	0.65	0.40	7	0.20	20
2005	120.92	0.85	0.32	7	0.22	20
2006	140.29	0.80	0.45	7	0.23	17
2007	152.74	0.75	0.37	7	0.22	20
2008	134.18	0.75	0.40	7	0.22	20

<b>Resource Grouping - Gas - Southwest Alberta - Conventional - Tertiary, Upper Cretaceous, Upper Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	13.52	0.95	0.45	8	0.28	25
2001	15.66	0.80	0.40	7	0.28	25
2002	18.16	0.75	0.65	7	0.25	20
2003	21.55	0.80	0.40	8	0.30	20
2004	16.55	1.10	0.50	8	0.25	30
2005	20.04	1.20	0.40	8	0.25	25
2006	22.26	1.10	0.40	7	0.22	20
2007	23.18	1.30	0.50	7	0.25	20
2008	20.60	1.20	0.50	7	0.22	20

<b>Resource Grouping - Gas - Southwest Alberta - Conventional - Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	1.82	1.30	0.35	19	0.12	90
2001	1.93	1.00	0.35	9	0.12	90
2002	3.66	1.00	0.35	9	0.12	50
2003	2.66	0.75	0.40	12	0.30	25
2004	0.91	0.70	0.66	20	0.12	60
2005	2.65	0.75	0.20	17	0.20	45
2006	2.95	1.20	0.60	11	0.22	25
2007	1.01	1.40	0.80	11	0.40	30
2008	0.09	2.90	0.40	12	0.22	20

<b>Resource Grouping - Gas - Southwest Alberta - Conventional - Middle Mannville, Lower Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	5.75	0.69	0.30	15	0.25	45
2001	7.00	0.70	0.40	14	0.20	45
2002	8.12	0.85	0.34	12	0.20	38
2003	6.76	0.12	0.40	14	0.60	25
2004	8.92	0.65	0.50	12	0.18	26
2005	10.54	0.97	0.55	12	0.40	26
2006	8.39	0.85	0.60	11	0.40	25
2007	9.33	0.65	0.55	11	0.40	25
2008	10.24	0.65	0.55	11	0.40	25

<b>Resource Grouping - Gas - Southwest Alberta - Conventional - Jurassic, Mississippian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	3.20	0.85	0.50	10	0.25	30
2001	1.93	0.85	0.65	10	0.22	35
2002	3.31	1.20	0.30	10	0.16	22
2003	5.09	0.35	0.20	7	0.16	20
2004	3.47	0.50	0.25	7	0.20	20
2005	2.05	0.70	0.65	8	0.22	20
2006	0.42	1.45	0.85	10	0.30	22
2007	1.43	1.45	0.45	9	0.22	20
2008	1.55	1.35	0.65	7	0.22	20

<b>Resource Grouping - Gas - Southwest Alberta - Conventional - Upper Devonian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	0.50	0.65	0.40	7	0.22	20
2001	0.53	1.15	0.40	10	0.30	20
2002	0.10	1.35	0.40	10	0.25	20
2003	3.62	0.65	0.50	7	0.30	20
2004	0.98	0.65	0.20	7	0.16	20
2005	0.01	0.45	0.40	7	0.22	20
2006	0.17	0.75	0.45	10	0.22	20
2007	0.31	0.95	0.45	7	0.22	20
2008	0.19	0.25	0.18	40	0.13	80

<b>Resource Grouping - Gas - Southwest Alberta - Tight - Upper Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	1.45	1.05	0.70	7	0.20	30
2001	1.63	1.05	0.65	7	0.27	22
2002	0.83	0.65	0.45	8	0.30	35
2003	2.09	1.05	0.75	8	0.25	21
2004	2.38	0.80	0.58	8	0.50	20
2005	2.07	1.75	0.45	8	0.40	18
2006	0.59	1.05	0.30	10	0.22	25
2007	0.83	1.05	0.30	10	0.22	25
2008	0.45	0.95	0.40	7	0.22	20

<b>Resource Grouping - Gas - Southwest Alberta - Tight - Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	1.82	1.15	0.60	7	0.43	20
2001	1.43	1.15	0.55	7	0.40	20
2002	0.56	1.45	0.45	7	0.35	20
2003	1.92	0.55	0.32	7	0.25	20
2004	2.53	1.00	0.45	7	0.30	15
2005	0.58	1.30	0.65	7	0.45	15
2006	0.11	2.15	0.65	7	0.30	20
2007	1.28	2.15	0.65	7	0.30	20
2008	2.04	1.70	0.40	7	0.22	20

<b>Resource Grouping - Gas - Southwest Alberta - Tight - Lower Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	7.82	1.25	0.40	7	0.16	20
2001	8.73	1.15	0.40	7	0.16	15
2002	6.12	0.65	0.35	7	0.22	20
2003	9.56	0.55	0.30	7	0.20	20
2004	12.02	0.05	0.30	7	0.22	20
2005	6.76	1.25	0.40	7	0.22	20
2006	15.29	0.70	0.40	6	0.22	30
2007	16.06	0.70	0.40	7	0.30	20
2008	11.29	0.75	0.45	7	0.22	20

<b>Resource Grouping - Gas - Southern Foothills - Conventional - Mississippian, Upper Devonian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	9.80	0.95	0.60	7	0.12	20
2001	2.84	0.95	0.40	7	0.22	20
2002	1.12	0.05	0.05	7	0.05	20
2003	5.61	1.15	0.40	7	0.16	20
2004	4.01	0.05	0.80	20	0.40	30
2005	3.66	0.65	0.45	7	0.22	20
2006	8.09	0.05	0.80	7	0.40	15
2007	5.96	0.05	0.80	9	0.40	15
2008	3.03	0.05	0.80	9	0.40	15

<b>Resource Grouping - Gas - Eastern Alberta - Conventional - Upper Cretaceous, Upper Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	2.59	1.05	0.60	7	0.50	20
2001	3.68	1.05	0.45	7	0.30	20
2002	4.25	1.00	0.45	7	0.40	20
2003	4.35	1.15	0.55	6	0.37	20
2004	4.94	1.15	0.55	6	0.30	20
2005	9.06	0.95	0.45	6	0.25	18
2006	17.23	1.15	0.50	7	0.20	18
2007	20.30	0.80	0.40	6	0.22	18
2008	15.49	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - Eastern Alberta - Conventional - Colorado, Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	33.24	0.95	0.60	7	0.30	20
2001	42.46	0.95	0.55	7	0.30	20
2002	58.59	0.85	0.40	7	0.32	20
2003	59.88	0.77	0.50	7	0.35	20
2004	71.96	0.85	0.55	7	0.35	20
2005	85.65	0.85	0.55	7	0.30	20
2006	104.82	0.77	0.45	8	0.35	20
2007	82.86	0.92	0.55	10	0.35	20
2008	63.59	0.95	0.55	9	0.22	20

<b>Resource Grouping - Gas - Eastern Alberta - Tight - Upper Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	1.38	0.65	0.40	7	0.18	12
2001	6.07	0.95	0.30	7	0.20	20
2002	5.05	0.95	0.30	7	0.20	20
2003	3.31	0.65	0.50	7	0.20	18
2004	3.02	0.95	0.40	7	0.20	20
2005	3.74	0.95	0.40	7	0.20	20
2006	3.20	0.85	0.40	8	0.22	20
2007	1.05	0.80	0.49	8	0.22	20
2008	0.25	0.85	0.40	8	0.22	20

**Resource Grouping - Gas - Central Alberta - Conventional - Tertiary, Upper Cretaceous**

Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	21.50	0.95	0.40	7	0.32	20
2001	19.81	1.15	0.40	7	0.25	20
2002	14.86	1.25	0.40	7	0.20	20
2003	22.14	0.85	0.40	7	0.25	20
2004	36.40	0.65	0.40	7	0.22	20
2005	38.90	1.10	0.40	7	0.25	20
2006	47.34	0.85	0.45	7	0.22	20
2007	59.22	0.65	0.45	7	0.22	20
2008	46.73	0.67	0.40	7	0.22	20

**Resource Grouping - Gas - Central Alberta - Conventional - Colorado**

Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	2.74	1.55	0.60	7	0.25	20
2001	6.13	1.15	0.50	7	0.28	20
2002	4.00	1.55	0.50	7	0.28	20
2003	6.92	1.05	0.50	7	0.22	20
2004	8.46	1.25	0.55	7	0.22	20
2005	12.15	1.25	0.45	7	0.22	20
2006	13.95	0.60	0.50	7	0.22	18
2007	9.30	0.60	0.50	7	0.22	20
2008	7.56	0.75	0.45	7	0.30	20

**Resource Grouping - Gas - Central Alberta - Conventional - Mannville**

Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	24.20	1.15	0.40	7	0.35	20
2001	25.29	1.15	0.50	7	0.38	20
2002	27.13	0.85	0.40	7	0.39	23
2003	36.06	0.80	0.65	7	0.40	20
2004	45.29	0.80	0.60	7	0.40	20
2005	51.15	0.70	0.45	15	0.28	30
2006	72.02	0.65	0.58	7	0.40	20
2007	74.49	0.70	0.60	10	0.40	20
2008	53.32	0.80	0.60	10	0.40	20

**Resource Grouping - Gas - Central Alberta - Conventional - Mississippian, Upper Devonian**

Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	1.34	1.15	0.60	7	0.30	20
2001	5.96	1.15	0.45	6	0.20	20
2002	2.85	1.05	0.45	7	0.25	20
2003	15.91	0.85	0.55	7	0.20	15
2004	7.27	0.20	0.35	14	0.22	60
2005	6.28	0.90	0.40	7	0.25	20
2006	5.02	0.85	0.65	7	0.35	20
2007	5.43	0.65	0.35	7	0.22	20
2008	7.83	0.65	0.40	7	0.22	20

**Resource Grouping - Gas - Central Alberta - Tight - Colorado**

Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	4.49	1.15	0.55	7	0.20	20
2001	3.75	0.75	0.40	7	0.28	20
2002	2.62	1.45	0.35	6	0.20	17
2003	8.79	0.60	0.40	7	0.20	20
2004	7.37	1.35	0.55	7	0.20	20
2005	9.34	1.35	0.37	6	0.20	20
2006	6.68	0.40	0.25	9	0.20	20
2007	5.06	0.95	0.55	7	0.25	20
2008	3.71	0.85	0.40	7	0.22	20

<b>Resource Grouping - Gas - Central Alberta - Tight - Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	1.29	1.15	0.60	7	0.27	20
2001	1.52	0.65	0.40	7	0.28	20
2002	1.06	1.45	0.80	7	0.45	20
2003	2.81	0.15	0.45	7	0.22	20
2004	4.97	1.25	0.65	7	0.25	20
2005	2.89	0.65	0.50	7	0.25	22
2006	3.55	0.99	0.45	8	0.30	18
2007	7.16	0.70	0.35	7	0.22	20
2008	6.36	0.90	0.45	7	0.22	20

<b>Resource Grouping - Gas - West Central Alberta - Conventional - Tertiary</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	1.84	0.65	0.50	7	0.40	20
2001	4.71	0.95	0.30	7	0.28	20
2002	7.51	0.65	0.35	7	0.22	20
2003	13.63	0.65	0.40	7	0.27	20
2004	25.70	0.65	0.40	7	0.30	20
2005	25.13	0.65	0.50	7	0.23	20
2006	33.86	0.70	0.45	8	0.30	20
2007	31.01	0.70	0.43	8	0.30	20
2008	35.48	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - West Central Alberta - Conventional - Upper Cretaceous, Upper Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	7.58	0.10	0.40	7	0.28	20
2001	3.84	0.85	0.47	7	0.35	20
2002	5.55	0.85	0.45	7	0.25	20
2003	9.15	0.70	0.43	7	0.22	20
2004	9.29	0.65	0.40	7	0.30	20
2005	15.19	1.05	0.40	7	0.22	20
2006	21.33	0.85	0.40	7	0.30	20
2007	23.78	0.25	0.33	7	0.22	18
2008	23.76	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - West Central Alberta - Conventional - Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	2.01	0.05	0.50	12	0.35	25
2001	3.01	0.65	0.19	6	0.17	20
2002	1.78	0.65	0.25	7	0.22	20
2003	1.84	1.05	0.37	6	0.30	20
2004	2.18	1.05	0.45	6	0.35	20
2005	6.17	0.65	0.40	7	0.22	20
2006	2.53	1.55	0.45	7	0.30	20
2007	1.30	1.65	0.40	8	0.22	20
2008	3.62	1.45	0.40	7	0.22	20

<b>Resource Grouping - Gas - West Central Alberta - Conventional - Lower Mannville, Jurassic</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	14.38	1.15	0.40	6	0.28	20
2001	21.82	1.15	0.30	5	0.28	20
2002	33.27	1.15	0.40	5	0.28	20
2003	31.99	0.95	0.40	6	0.20	20
2004	39.44	0.62	0.40	7	0.22	20
2005	48.57	0.60	0.45	7	0.30	20
2006	68.82	1.35	0.45	6	0.22	20
2007	61.67	1.15	0.45	6	0.22	20
2008	63.69	1.15	0.40	7	0.22	20

**Resource Grouping - Gas - West Central Alberta - Conventional - Mississippian**

Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	10.14	0.65	0.40	7	0.33	20
2001	18.51	0.30	0.40	7	0.50	20
2002	15.92	0.30	0.65	8	0.55	20
2003	9.02	0.65	0.40	7	0.38	20
2004	7.38	0.95	0.60	6	0.28	20
2005	11.90	0.15	0.25	10	0.40	20
2006	13.41	0.75	0.50	7	0.35	20
2007	17.30	0.65	0.30	7	0.22	20
2008	4.11	1.45	0.50	7	0.25	20

**Resource Grouping - Gas - West Central Alberta - Conventional - Upper Devonian**

Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	3.13	0.65	0.40	7	0.22	20
2001	22.64	0.25	0.24	7	0.20	20
2002	5.41	0.65	0.40	7	0.22	20
2003	10.37	0.05	0.10	10	0.25	20
2004	87.45	0.10	0.05	7	0.05	20
2005	39.67	0.45	0.10	7	0.08	20
2006	2.49	0.05	0.85	10	0.22	20
2007	15.15	0.05	0.85	10	0.22	20
2008	0.14	1.45	0.65	6	0.22	20

**Resource Grouping - Gas - West Central Alberta - Tight - Colorado**

Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	2.73	0.65	0.55	7	0.22	20
2001	2.66	0.05	0.35	7	0.65	25
2002	1.14	1.35	0.33	8	0.29	20
2003	2.04	0.95	0.50	7	0.30	20
2004	9.82	0.15	0.10	7	0.12	20
2005	7.16	1.15	0.35	7	0.20	20
2006	21.21	0.85	0.35	6	0.22	20
2007	14.10	0.85	0.45	6	0.22	20
2008	11.96	0.85	0.45	7	0.22	20

**Resource Grouping - Gas - West Central Alberta - Tight - Mannville**

Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	17.59	0.40	0.48	7	0.27	20
2001	28.91	0.85	0.40	7	0.22	20
2002	27.51	0.85	0.38	6	0.25	20
2003	46.52	0.60	0.40	7	0.22	20
2004	58.56	0.65	0.40	7	0.22	20
2005	55.73	0.55	0.40	7	0.24	20
2006	80.26	0.85	0.50	7	0.22	20
2007	84.95	0.95	0.39	8	0.22	20
2008	83.57	0.85	0.40	7	0.22	20

**Resource Grouping - Gas - Central Foothills - Conventional - Upper Colorado**

Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	5.84	0.65	0.40	7	0.25	20
2001	12.90	0.25	0.22	20	0.20	30
2002	27.83	0.65	0.20	9	0.40	22
2003	6.64	0.65	0.43	7	0.24	20
2004	20.87	0.45	0.32	7	0.20	20
2005	13.14	0.35	0.28	7	0.20	20
2006	11.41	0.85	0.40	7	0.22	20
2007	5.96	1.55	0.60	7	0.30	20
2008	16.15	0.95	0.40	7	0.22	20

Resource Grouping - Gas - Central Foothills - Conventional - Colorado, Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	25.12	0.05	0.40	25	0.30	35
2001	15.17	0.05	0.30	20	0.22	30
2002	24.78	0.65	0.50	7	0.28	20
2003	25.80	0.45	0.35	7	0.28	20
2004	24.06	0.25	0.45	7	0.30	20
2005	14.67	0.55	0.32	7	0.22	20
2006	18.32	0.75	0.40	7	0.22	20
2007	18.00	1.30	0.65	7	0.30	20
2008	56.53	1.30	0.40	7	0.22	20

Resource Grouping - Gas - Central Foothills - Conventional - Jurassic, Triassic, Permian						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	0.55	0.75	0.55	7	0.30	20
2001	8.82	0.10	0.15	15	0.30	50
2002	2.89	0.65	0.40	7	0.22	20
2003	19.34	0.25	0.35	7	0.22	20
2004	20.46	0.15	0.35	12	0.22	20
2005	4.64	0.65	0.40	7	0.30	20
2006	35.46	0.65	0.40	7	0.30	20
2007	58.76	0.75	0.40	8	0.22	20
2008	27.27	0.75	0.40	7	0.22	20

Resource Grouping - Gas - Central Foothills - Conventional - Mississippian						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	50.08	0.15	0.30	7	0.12	20
2001	39.54	0.85	0.40	7	0.12	20
2002	99.07	0.25	0.26	7	0.12	20
2003	163.55	0.35	0.20	7	0.15	20
2004	39.83	0.65	0.30	7	0.20	20
2005	19.09	0.65	0.38	7	0.15	18
2006	28.38	0.23	0.18	7	0.16	20
2007	28.52	0.65	0.40	7	0.22	20
2008	25.95	0.65	0.40	7	0.22	20

Resource Grouping - Gas - Central Foothills - Conventional - Upper Devonian, Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	7.41	0.40	0.20	7	0.16	20
2001	7.15	0.25	0.20	10	0.40	25
2002	27.11	0.10	0.20	45	0.12	55
2003	33.07	0.05	0.40	10	0.12	18
2004	11.72	0.05	0.25	10	0.20	18
2005	17.06	0.10	0.10	7		
2006	8.78	0.20	0.18	10	0.16	20
2007	4.22	0.95	0.85	7	0.40	20
2008	2.62	0.95	0.50	7	0.22	20

Resource Grouping - Gas - Central Foothills - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2001	0.43	0.17	0.45	60	0.20	75
2002	0.23	0.65	0.40	7	0.12	20
2003	0.33	0.65	0.45	18	0.25	42
2004	0.17	0.65	0.40	7	0.22	20
2005	9.59	0.25	0.45	10	0.40	20
2006	3.12	0.50	0.40	7	0.22	20
2007	13.14	0.65	0.40	7	0.22	20
2008	11.67	0.85	0.40	7	0.22	20

<b>Resource Grouping - Gas - Central Foothills - Tight - Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	0.28	0.25	0.40	7	0.22	20
2001	0.50	0.25	0.40	7	0.22	20
2002	0.45	0.20	0.22	7	0.22	20
2004	0.42	2.95	0.65	7	0.22	20
2005	0.36	0.25	0.40	7	0.22	20
2006	1.50	1.15	0.65	10	0.45	20
2007	0.77	1.95	0.75	10	0.45	20
2008	0.06	1.45	0.40	10	0.22	20

<b>Resource Grouping - Gas - Central Foothills - Tight - Jurassic</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2005	1.32	0.65	0.40	7	0.22	20
2006	2.14	0.70	0.40	10	0.22	25
2007	6.29	0.65	0.40	7	0.22	20
2008	5.42	0.85	0.40	7	0.22	20

<b>Resource Grouping - Gas - Kaybob - Conventional - Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	4.73	0.95	0.50	7	0.37	20
2001	5.05	1.15	0.55	5	0.45	20
2002	3.04	1.05	0.55	6	0.30	20
2003	4.63	1.65	0.55	7	0.28	20
2004	5.06	1.65	0.58	7	0.25	20
2005	7.36	1.25	0.50	7	0.25	20
2006	8.92	1.45	0.45	7	0.25	20
2007	7.27	1.15	0.45	7	0.25	20
2008	8.16	1.45	0.45	7	0.22	20

<b>Resource Grouping - Gas - Kaybob - Conventional - Mannville, Jurassic</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	14.49	0.65	0.64	7	0.35	20
2001	12.11	0.75	0.45	7	0.40	20
2002	7.70	1.15	0.53	7	0.33	20
2003	16.82	0.65	0.40	7	0.35	20
2004	17.16	0.65	0.45	7	0.43	20
2005	24.61	1.15	0.55	7	0.30	20
2006	33.49	1.15	0.55	7	0.30	20
2007	47.03	0.25	0.85	12	0.22	30
2008	34.42	1.15	0.55	7	0.30	20

<b>Resource Grouping - Gas - Kaybob - Conventional - Triassic</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	10.42	0.65	0.32	7	0.25	20
2001	8.06	0.85	0.35	7	0.30	20
2002	18.81	0.65	0.40	7	0.28	20
2003	15.00	0.65	0.40	7	0.22	20
2004	12.20	1.25	0.50	7	0.22	20
2005	25.01	0.65	0.47	7	0.22	20
2006	25.87	1.25	0.50	8	0.25	20
2007	38.53	0.65	0.50	7	0.22	25
2008	46.45	1.55	0.40	8	0.22	20

<b>Resource Grouping - Gas - Kaybob - Conventional - Upper Devonian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	2.96	0.95	0.35	7	0.22	20
2001	1.81	0.95	0.50	7	0.30	20
2002	1.73	0.15	0.40	7	0.22	20
2003	11.12	0.65	0.40	7	0.12	20
2005	0.06	0.70	0.50	7	0.30	20
2006	3.28	0.75	0.60	10	0.22	30
2007	4.54	0.65	0.40	7	0.22	20
2008	4.46	1.05	0.40	7	0.22	20

<b>Resource Grouping - Gas - Kaybob - Tight - Colorado, Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	20.38	0.45	0.50	7	0.30	20
2001	18.60	1.25	0.40	7	0.23	20
2002	16.43	1.25	0.37	7	0.18	20
2003	21.50	1.05	0.40	7	0.22	20
2004	30.78	0.95	0.30	7	0.20	20
2005	27.60	1.15	0.50	7	0.24	20
2006	53.43	0.95	0.40	8	0.30	20
2007	30.45	1.25	0.40	8	0.30	20
2008	38.35	1.25	0.40	7	0.22	20

<b>Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Cretaceous</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	1.37	0.65	0.50	7	0.30	20
2001	2.47	0.95	0.45	7	0.37	20
2002	7.98	1.20	0.37	7	0.20	20
2003	10.48	1.20	0.50	7	0.25	20
2004	6.67	0.65	0.50	7	0.30	20
2005	6.95	1.05	0.40	7	0.25	20
2006	5.81	0.65	0.35	7	0.12	18
2007	2.83	1.65	0.40	7	0.22	20
2008	5.03	0.85	0.40	7	0.22	20

<b>Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	9.10	1.05	0.30	6	0.22	20
2001	5.40	1.15	0.40	6	0.22	20
2002	3.54	1.15	0.45	6	0.22	20
2003	7.96	1.25	0.42	7	0.22	20
2004	9.71	0.95	0.40	7	0.28	20
2005	12.40	0.97	0.40	6	0.30	20
2006	16.26	1.25	0.30	7	0.22	20
2007	17.94	1.25	0.40	6	0.22	20
2008	10.70	1.25	0.40	7	0.22	20

<b>Resource Grouping - Gas - Alberta Deep Basin - Conventional - Mannville, Jurassic</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	2.80	1.05	0.60	7	0.20	20
2001	3.49	1.45	0.60	11	0.20	25
2002	2.87	1.15	0.20	7	0.18	20
2003	2.27	1.95	0.48	7	0.22	20
2004	1.86	1.95	0.80	7	0.22	20
2005	6.13	1.65	0.80	7	0.22	20
2006	9.06	1.05	0.30	7	0.22	18
2007	4.50	1.65	0.45	9	0.22	18
2008	28.41	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - Alberta Deep Basin - Conventional - Triassic</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	1.08	0.20	0.30	7	0.22	20
2001	4.92	0.05	0.20	45		
2002	10.45	0.30	0.45	7	0.25	20
2003	11.15	0.75	0.45	7	0.25	20
2004	16.74	0.75	0.55	7	0.25	20
2005	15.39	0.85	0.45	7	0.29	20
2006	13.86	0.85	0.40	7	0.35	20
2007	10.71	0.70	0.55	7	0.22	20
2008	11.29	1.45	0.50	8	0.22	20

<b>Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Devonian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	10.58	0.95	0.45	7	0.28	20
2001	4.25	0.95	0.50	7	0.35	20
2002	6.74	0.65	0.30	7	0.22	20
2003	4.80	0.70	0.60	7	0.22	20
2004	6.60	0.60	0.15	7	0.10	20
2005	3.12	1.35	0.40	7	0.25	20
2006	0.00	0.65	0.40	7	0.22	20
2007	18.69	0.05	0.95	15	0.22	25
2008	1.53	1.95	0.65	7	0.22	20

<b>Resource Grouping - Gas - Alberta Deep Basin - Tight - Upper Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	31.08	1.15	0.40	7	0.25	20
2001	38.03	1.05	0.38	6	0.24	20
2002	36.79	1.05	0.40	7	0.18	20
2003	31.94	0.75	0.42	7	0.22	20
2004	58.77	0.65	0.42	7	0.22	20
2005	77.33	0.85	0.40	7	0.22	20
2006	127.03	0.65	0.45	7	0.22	20
2007	87.52	0.70	0.40	10	0.22	20
2008	62.68	0.85	0.40	9	0.22	20

<b>Resource Grouping - Gas - Alberta Deep Basin - Tight - Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	11.88	1.45	0.40	7	0.22	20
2001	17.39	0.65	0.40	7	0.28	20
2002	19.91	0.65	0.40	7	0.45	20
2003	18.23	0.65	0.40	7	0.25	20
2004	20.90	0.50	0.40	7	0.50	20
2005	14.35	0.15	0.40	9	0.30	20
2006	23.15	0.65	0.45	7	0.22	20
2007	39.08	0.65	0.45	7	0.22	20
2008	25.08	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - Alberta Deep Basin - Tight - Mannville, Jurassic</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	31.77	1.25	0.50	7	0.22	20
2001	54.83	1.30	0.52	7	0.27	20
2002	55.26	0.95	0.40	7	0.24	20
2003	94.99	0.65	0.43	7	0.32	20
2004	149.41	0.65	0.40	7	0.29	20
2005	203.11	0.65	0.50	7	0.25	20
2006	355.68	0.65	0.50	7	0.22	20
2007	365.17	0.65	0.50	7	0.22	20
2008	409.58	1.05	0.40	7	0.22	20

Resource Grouping - Gas - Northeast Alberta - Conventional - Mannville, Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	62.23	0.35	0.30	7	0.22	20
2001	87.41	0.35	0.25	7	0.15	20
2002	53.31	0.25	0.28	7	0.20	20
2003	48.30	0.45	0.30	7	0.27	20
2004	52.81	0.10	0.38	7	0.24	20
2005	34.22	0.65	0.45	7	0.22	24
2006	51.55	0.65	0.40	7	0.25	20
2007	50.84	0.65	0.43	7	0.22	20
2008	35.09	0.70	0.45	7	0.22	20

Resource Grouping - Gas - Peace River - Conventional - Upper Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	1.46	0.95	0.40	7	0.22	20
2001	0.44	0.95	0.40	11	0.22	25
2002	0.54	0.15	0.40	7	0.22	20
2003	2.29	0.35	0.50	8	0.42	20
2004	5.49	0.65	0.40	7	0.32	20
2005	5.98	0.65	0.55	7	0.42	20
2006	3.47	0.85	0.40	7	0.30	20
2007	4.11	0.85	0.45	7	0.22	20
2008	0.58	0.85	0.40	7	0.22	20

Resource Grouping - Gas - Peace River - Conventional - Colorado, Upper Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	5.27	0.75	0.42	10	0.35	20
2001	3.87	1.05	0.55	7	0.30	20
2002	0.88	1.25	0.55	7	0.56	20
2003	1.63	0.75	0.45	7	0.75	20
2004	3.24	0.65	0.75	7	0.65	20
2005	9.68	0.65	0.40	7	0.45	20
2006	8.81	0.85	0.50	7	0.65	20
2007	15.81	0.65	0.40	7	0.22	20
2008	13.59	0.65	0.40	7	0.22	20

Resource Grouping - Gas - Peace River - Conventional - Middle Mannville, Lower Mannville						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	6.42	1.25	0.60	7	0.39	20
2001	13.27	0.95	0.30	7	0.18	20
2002	4.21	1.15	0.70	7	0.45	20
2003	8.70	0.65	0.75	7	0.45	20
2004	9.00	0.05	0.75	10	0.45	20
2005	8.81	1.05	0.85	7	0.40	20
2006	26.58	1.15	0.55	7	0.30	20
2007	19.80	1.55	0.65	7	0.30	20
2008	15.01	1.45	0.40	7	0.22	20

Resource Grouping - Gas - Peace River - Conventional - Upper Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	4.76	0.65	0.53	7	0.35	20
2001	1.24	0.25	0.30	7	0.50	25
2002	2.91	1.25	0.75	7	0.37	20
2003	6.04	0.95	0.60	7	0.40	20
2004	3.69	0.65	0.50	7	0.25	20
2005	2.37	0.65	0.75	7	0.45	20
2006	9.96	0.85	0.50	7	0.30	20
2007	4.28	1.65	0.65	7	0.30	20
2008	11.64	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - Peace River - Conventional - Lower Triassic</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	10.06	1.15	0.40	7	0.20	18
2001	14.12	0.85	0.40	7	0.30	20
2002	22.65	0.85	0.37	7	0.25	20
2003	17.87	1.15	0.50	7	0.20	20
2004	16.29	1.05	0.65	7	0.20	25
2005	18.75	1.25	0.60	7	0.22	20
2006	50.66	1.15	0.40	7	0.30	20
2007	47.30	1.15	0.45	7	0.30	20
2008	91.03	0.70	0.40	7	0.22	20

<b>Resource Grouping - Gas - Peace River - Conventional - Mississippian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	3.39	1.25	0.70	7	0.37	20
2001	12.71	0.35	0.50	10	0.40	20
2002	4.87	1.65	0.60	8	0.46	20
2003	11.82	0.25	0.75	12	0.20	30
2004	25.01	0.25	0.35	8	0.25	20
2005	23.55	0.25	0.55	9	0.22	25
2006	13.22	1.15	0.40	7	0.30	20
2007	8.46	1.35	0.60	8	0.30	20
2008	36.63	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - Peace River - Conventional - Upper Devonian, Middle Devonian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	0.88	1.25	0.75	9	0.40	20
2001	1.89	0.65	0.40	7	0.30	20
2002	11.39	0.15	0.55	25	0.30	40
2003	0.56	0.65	1.10	7	0.22	28
2004	3.63	0.65	0.75	7	0.22	20
2005	6.19	0.10	0.95	10	0.22	28
2006	4.48	1.43	0.40	9	0.22	20
2007	2.60	3.55	0.65	15	0.22	25
2008	2.64	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - Northwest Alberta - Conventional - Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	22.96	0.15	0.30	7	0.22	20
2001	27.15	0.65	0.35	7	0.22	20
2002	18.15	0.75	0.35	7	0.22	20
2003	23.71	0.75	0.30	9	0.22	20
2004	27.74	0.05	0.30	10	0.16	20
2005	23.57	0.05	0.40	7	0.22	20
2006	30.37	0.35	0.22	7	0.20	20
2007	13.33	0.70	0.40	8	0.22	20
2008	17.60	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - Northwest Alberta - Conventional - Mississippian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	8.02	0.15	0.50	10	0.35	20
2001	7.08	0.65	0.30	7	0.32	30
2002	6.81	0.65	0.26	7	0.30	20
2003	16.73	0.65	0.30	7	0.10	20
2004	11.78	0.65	0.60	7	0.25	20
2005	7.91	0.65	0.40	7	0.22	20
2006	7.91	0.95	0.25	6	0.16	20
2007	5.04	0.95	0.50	7	0.22	20
2008	2.95	0.65	0.40	7	0.22	20

Resource Grouping - Gas - Northwest Alberta - Conventional - Upper Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	13.45	1.25	0.45	7	0.30	20
2001	7.83	1.05	0.50	7	0.70	20
2002	8.96	1.45	0.95	7	0.32	20
2003	10.04	0.65	0.70	7	0.50	25
2004	9.51	1.15	0.50	7	0.40	25
2005	4.68	1.25	0.99	7	0.55	20
2006	9.96	2.05	0.65	7	0.30	20
2007	3.36	0.95	0.45	7	0.22	20
2008	5.89	2.05	0.50	7	0.22	20

Resource Grouping - Gas - Northwest Alberta - Conventional - Middle Devonian						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	0.84	0.95	0.65	7	0.95	12
2001	2.62	1.25	1.05	7	0.40	25
2002	1.78	1.45	1.05	10	0.40	25
2003	0.78	1.25	0.60	7	0.45	20
2004	4.13	0.95	0.70	7	0.55	20
2005	3.17	0.95	0.75	7	0.70	20
2006	1.78	2.45	0.95	7	0.40	20
2007	2.31	1.85	0.95	7	0.40	20
2008	9.94	1.65	0.65	7	0.22	20

Resource Grouping - Gas - BC Deep Basin - Conventional - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	0.17	0.65	0.40	7	0.16	20
2001	2.15	1.85	0.60	10	0.30	20
2002	1.41	0.45	0.60	10	0.30	20
2003	0.47	1.95	1.45	10	0.60	25
2004	10.46	0.45	0.40	7	0.45	20
2005	6.57	0.55	0.35	7	0.32	20
2006	0.25	1.45	0.65	7	0.22	20
2007	0.11	0.45	0.30	7	0.22	20
2008	0.84	0.75	0.40	7	0.22	20

Resource Grouping - Gas - BC Deep Basin - Conventional - Lower Triassic						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2002	0.50	0.24				
2003	0.44	0.05	0.30	20	0.22	45
2004	2.87	1.55	0.60	7	0.25	20
2005	39.24	0.15	0.14	10	0.22	20
2006	15.02	0.75	0.45	8	0.22	20
2007	22.35	0.65	0.40	7	0.22	20
2008	39.74	0.65	0.40	7	0.22	20

Resource Grouping - Gas - BC Deep Basin - Tight - Colorado						
Connection Year	Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d	First Decline Rate	Second Decline Rate	Months to Second Decline Rate	Third Decline Rate	Months to Third Decline Rate
2000	1.03	1.95	0.50	12	0.22	25
2001	1.53	1.85	0.35	6	0.20	20
2002	2.97	1.45	0.40	6	0.22	20
2003	3.60	1.25	0.50	7	0.28	20
2004	1.15	1.25	0.50	7	0.15	20
2005	0.61	1.35	0.65	14	0.15	25
2006	2.27	1.15	0.50	12	0.22	22
2007	4.94	0.30	0.25	7	0.22	20
2008	3.37	1.35	0.40	7	0.22	20

<b>Resource Grouping - Gas - BC Deep Basin - Tight - Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	2.07	1.25	0.50	7	0.30	20
2001	4.66	0.65	0.70	7	0.30	20
2002	4.51	1.95	0.45	7	0.25	20
2003	7.24	1.25	0.45	7	0.30	20
2004	20.20	1.80	0.50	7	0.30	20
2005	36.75	1.80	0.60	7	0.25	20
2006	64.65	1.95	0.65	7	0.30	20
2007	35.98	1.95	0.85	7	0.30	20
2008	64.34	1.95	0.40	7	0.22	20

<b>Resource Grouping - Gas - BC Deep Basin - Tight - Lower Triassic</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2007	3 (IP)	1.99	0.80	5	0.23	13
2008	3 (IP)	1.99	0.80	5	0.23	13

IP = Initial production per connection

<b>Resource Grouping - Gas - Fort St John - Conventional - Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	20.23	0.85	0.40	6	0.22	20
2001	20.29	0.60	0.30	7	0.27	20
2002	12.92	1.05	0.40	7	0.23	20
2003	15.17	1.00	0.40	8	0.25	20
2004	32.77	0.65	0.40	7	0.30	20
2005	37.53	0.50	0.60	7	0.25	17
2006	63.18	0.95	0.45	7	0.22	20
2007	39.35	0.95	0.45	7	0.22	20
2008	42.37	0.95	0.40	7	0.22	20

<b>Resource Grouping - Gas - Fort St John - Conventional - Triassic</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	14.35	0.95	0.40	7	0.20	20
2001	24.44	0.75	0.35	7	0.20	20
2002	25.58	1.25	0.40	5	0.27	20
2003	22.99	1.15	0.65	7	0.25	20
2004	43.01	0.85	0.45	7	0.25	20
2005	48.69	0.95	0.42	7	0.27	20
2006	75.70	0.65	0.50	7	0.22	20
2007	126.46	0.75	0.50	7	0.22	20
2008	183.12	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - Fort St John - Conventional - Permian, Mississippian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	3.49	0.10	0.50	7	0.22	20
2001	0.45	0.75	0.60	7	0.70	20
2002	1.88	0.10	0.50	10	0.32	20
2003	4.65	0.15	0.65	7	0.35	20
2004	3.56	0.05	0.45	10	0.30	20
2005	2.33	0.05	0.25	15	0.20	20
2006	3.45	0.65	0.40	7	0.22	20
2007	21.50	0.65	0.40	7	0.22	20
2008	22.17	0.85	0.40	7	0.22	20

<b>Resource Grouping - Gas - Fort St John - Conventional - Upper Devonian, Middle Devonian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	1.44	0.01	1.60	22	0.80	38
2001	18.87	0.30	0.90	7	0.60	25
2002	3.17	0.65	0.60	7	0.80	15
2003	22.79	0.65	0.40	7	0.29	20
2004	4.62	0.95	0.35	7	0.12	20
2005	6.98	0.25	0.55	7	0.40	20
2006	2.96	0.95	0.50	7	0.30	20
2007	2.15	0.05	1.05	8	0.22	25
2008	2.25	0.45	0.25	24		

<b>Resource Grouping - Gas - Fort St John - Tight - Triassic</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2007	3 (IP)	1.99	0.80	5	0.23	13
2008	3 (IP)	1.99	0.80	5	0.23	13

IP = Initial production per connection

<b>Resource Grouping - Gas - Northeast BC - Conventional - Lower Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	4.02	0.10	0.30	10	0.16	20
2001	5.85	0.65	0.35	7	0.22	20
2002	3.33	0.45	0.20	7	0.22	20
2003	6.58	1.35	0.40	7	0.22	20
2004	3.71	0.55	0.05	7	0.05	20
2005	0.25	0.65	0.40	7	0.22	20
2006	2.18	0.45	0.16	7	0.12	20
2007	1.80	0.45	0.16	7	0.12	20
2008	1.10	0.95	0.40	7	0.22	20

<b>Resource Grouping - Gas - Northeast BC - Conventional - Permian, Mississippian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	0.16	0.65	0.40	7	0.22	20
2001	3.64	0.05	0.45	30	0.40	55
2002	10.65	0.25	0.24	7	0.30	22
2003	2.79	0.10	0.43	7	0.50	25
2004	5.73	0.50	0.65	15	0.22	25
2005	18.19	0.55	0.27	10	0.10	30
2006	6.50	1.35	0.60	7	0.30	20
2007	2.58	0.65	0.40	7	0.22	20
2008	1.32	0.95	0.65	7	0.22	20

<b>Resource Grouping - Gas - Northeast BC - Conventional - Upper Devonian, Middle Devonian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	5.42	1.05	0.25	7	0.38	20
2001	17.06	0.05	0.20	30	0.18	45
2002	2.23	0.65	0.55	7	0.47	20
2003	9.89	1.25	0.45	7	0.30	20
2004	21.84	0.65	0.40	7	0.22	20
2005	18.53	0.15	0.35	7	0.12	20
2006	10.34	0.85	0.60	7	0.22	18
2007	2.99	0.20	0.65	7	0.30	20
2008	1.54	3.05	0.65	7	0.30	20

<b>Resource Grouping - Gas - Northeast BC - Tight - Upper Devonian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	19.84	0.95	0.50	7	0.25	20
2001	23.88	0.95	0.50	7	0.20	20
2002	22.59	1.35	0.50	7	0.25	20
2003	59.17	1.35	0.40	7	0.33	20
2004	60.86	1.35	0.50	7	0.28	20
2005	73.41	1.55	0.50	7	0.25	20
2006	58.18	1.65	0.65	6	0.22	20
2007	62.28	1.95	0.65	6	0.25	20
2008	71.79	1.65	0.65	7	0.22	20

<b>Resource Grouping - Gas - Northeast BC - Shale - Middle Devonian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2007	5 (IP)	1.16	0.27	13	0.22	25
2008	5 (IP)	1.16	0.27	13	0.22	25

IP = Initial production per connection

<b>Resource Grouping - Gas - BC Foothills - Conventional - Colorado, Mannville</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2002	2.14	0.05	0.40	20	0.22	35
2003	1.30	0.35	0.55	15	0.22	25
2004	8.37	0.65	0.40	15	0.37	25
2005	11.04	0.65	0.60	7	0.25	20
2006	15.30	0.65	0.40	9	0.22	25
2007	21.43	0.65	0.50	7	0.25	20
2008	36.21	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - BC Foothills - Conventional - Triassic, Permian, Mississippian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	9.42	0.20	0.40	10	0.39	20
2001	29.47	0.65	0.05	7	0.22	35
2002	6.52	0.05	0.35	15	0.30	25
2003	70.98	0.10	0.40	15	0.10	35
2004	45.60	0.30	0.40	25	0.22	35
2005	23.63	0.35	0.40	7	0.22	20
2006	254.03	0.25	0.15	10	0.05	20
2007	48.50	0.55	0.40	7	0.22	25
2008	109.18	0.65	0.40	7	0.22	20

<b>Resource Grouping - Gas - Southwest Saskatchewan - Upper Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	26.44	0.65	0.28	7	0.16	20
2001	27.93	0.68	0.30	7	0.22	20
2002	42.52	0.65	0.26	7	0.20	20
2003	57.13	0.55	0.32	7	0.22	20
2004	57.00	0.80	0.25	7	0.22	20
2005	54.22	0.75	0.45	7	0.27	20
2006	56.87	0.95	0.45	7	0.30	20
2007	55.98	0.95	0.45	7	0.22	20
2008	61.53	0.95	0.40	7	0.22	20

<b>Resource Grouping - Gas - West Saskatchewan - Colorado</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	0.27	0.65	0.33	7	0.22	20
2001	0.10	0.75	0.65	7	0.45	35
2002	0.23	0.65	0.50	7	0.40	20
2003	0.71	0.15	0.55	7	0.22	20
2004	0.40	0.15	0.55	7	0.22	40
2005	1.60	0.80	0.45	8	0.40	20
2006	1.15	0.80	0.65	8	0.30	20
2007	0.90	0.95	0.55	8	0.22	20
2008	0.12	0.85	0.40	7	0.22	20

<b>Resource Grouping - Gas - West Saskatchewan - Middle Mannville, Lower Mannville, Mississippian</b>						
<b>Connection Year</b>	<b>Group Production Rate as of Dec. 31, 2008 Mkt MMcf/d</b>	<b>First Decline Rate</b>	<b>Second Decline Rate</b>	<b>Months to Second Decline Rate</b>	<b>Third Decline Rate</b>	<b>Months to Third Decline Rate</b>
2000	5.37	0.65	0.40	7	0.30	20
2001	8.46	0.85	0.60	7	0.35	20
2002	6.45	0.60	0.35	7	0.50	20
2003	7.56	0.95	0.65	7	0.40	20
2004	8.88	0.75	0.65	7	0.55	20
2005	11.62	0.95	0.60	7	0.45	23
2006	17.90	0.85	0.50	8	0.30	20
2007	12.19	0.85	0.50	8	0.30	20
2008	8.04	0.85	0.40	7	0.22	20

#### A4 Decline Parameters for Groupings of Future Gas Connections

<b>Resource Grouping - Gas - Alberta Coalbed Methane - Mannville</b>										
<b>Connection Year</b>	<b>Peak Production MMcf/d</b>	<b>1st Decline Rate</b>	<b>2nd Decline Rate</b>	<b>Months to 2nd Decline Rate</b>	<b>3rd Decline Rate</b>	<b>Months to 3rd Decline Rate</b>	<b>4th Decline Rate</b>	<b>Months to 4th Decline Rate</b>	<b>5th Decline Rate</b>	<b>Months to 5th Decline Rate</b>
2005	0.24	0.65	0.30	7	0.22	20	0.16	45	0.12	90
2006	0.34	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2007	0.38	0.01	0.40	15	0.20	30	0.15	50	0.10	100
2008	0.38	0.01	0.40	15	0.20	30	0.15	50	0.10	100
2009	0.38	0.01	0.40	15	0.20	30	0.15	50	0.10	100
2010	0.38	0.01	0.40	15	0.20	30	0.15	50	0.10	100
2011	0.38	0.01	0.40	15	0.20	30	0.15	50	0.10	100
2012	0.38	0.01	0.40	15	0.20	30	0.15	50	0.10	100

<b>Resource Grouping - Gas - Alberta Coalbed Methane - Horseshoe Canyon</b>										
<b>Connection Year</b>	<b>Initial Production per Connection MMcf/d</b>	<b>1st Decline Rate</b>	<b>2nd Decline Rate</b>	<b>Months to 2nd Decline Rate</b>	<b>3rd Decline Rate</b>	<b>Months to 3rd Decline Rate</b>	<b>4th Decline Rate</b>	<b>Months to 4th Decline Rate</b>	<b>5th Decline Rate</b>	<b>Months to 5th Decline Rate</b>
2003	0.09	0.35	0.20	7	0.12	20				
2004	0.08	0.10	0.18	15	0.12	40				
2005	0.08	0.16	0.19	15	0.12	40				
2006	0.08	0.15	0.19	15	0.12	27				
2007	0.09	0.65	0.21	4	0.12	30				
2008	0.08	0.65	0.20	4	0.12	30				
2009	0.08	0.65	0.20	5	0.12	30				
2010	0.08	0.65	0.20	5	0.12	30				
2011	0.08	0.65	0.20	5	0.12	30				
2012	0.08	0.65	0.20	5	0.12	30				

<b>Resource Grouping - Gas - Alberta Coalbed Methane - Other</b>										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2003	0.09	0.85	0.50	8	0.22	20	0.05	45		
2004	0.05	0.65	0.40	7	0.10	15	0.05	45		
2005	0.04	0.55	0.25	7	0.15	20	0.05	45		
2006	0.06	0.65	0.30	7	0.15	20	0.05	45		
2007	0.07	0.70	0.30	7	0.15	20	0.05	45		
2008	0.05	0.65	0.30	7	0.15	20	0.05	45		
2009	0.05	0.65	0.30	7	0.15	20	0.05	45		
2010	0.05	0.65	0.30	7	0.15	20	0.05	45		
2011	0.05	0.65	0.30	7	0.15	20	0.05	45		
2012	0.05	0.65	0.30	7	0.15	20	0.05	45		

<b>Resource Grouping - Gas - Southern Alberta - Conventional - Tertiary, Upper Cretaceous, Upper Colorado</b>										
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
2000	0.13	0.80	0.32	9	0.18	20	0.12	45		
2001	0.11	0.85	0.25	8	0.14	20	0.12	500		
2002	0.14	0.85	0.40	9	0.22	20	0.16	45	0.12	90
2003	0.09	0.60	0.35	5	0.22	15	0.16	45	0.12	90
2004	0.13	0.85	0.45	8	0.28	20	0.16	40	0.12	90
2005	0.09	0.85	0.40	8	0.22	20	0.16	45	0.12	90
2006	0.08	0.85	0.42	8	0.24	20	0.16	45	0.12	90
2007	0.10	0.75	0.42	8	0.22	20	0.16	45	0.12	90
2008	0.09	0.75	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.09	0.75	0.40	8	0.22	20	0.16	45	0.12	90
2010	0.09	0.70	0.40	8	0.22	20	0.16	45	0.12	90
2011	0.08	0.65	0.40	8	0.22	20	0.16	45	0.12	90
2012	0.08	0.60	0.40	8	0.22	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Southern Alberta - Conventional - Colorado</b>										
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
2000	0.39	0.99	0.38	14	0.18	30	0.10	50		
2001	0.44	1.05	0.53	14	0.25	30	0.16	60	0.12	90
2002	0.44	1.05	0.52	13	0.25	30	0.16	60	0.12	90
2003	0.22	0.95	0.40	10	0.29	25	0.16	45	0.12	90
2004	0.20	1.05	0.45	10	0.29	25	0.16	45	0.12	90
2005	0.19	0.95	0.55	9	0.45	25	0.16	40	0.12	90
2006	0.16	1.35	0.85	9	0.45	18	0.16	45	0.12	90
2007	0.13	0.75	0.72	9	0.40	18	0.16	45	0.12	90
2008	0.12	0.80	0.45	9	0.22	20	0.16	45	0.12	90
2009	0.12	0.80	0.45	9	0.30	20	0.16	45	0.12	90
2010	0.11	0.80	0.45	9	0.30	20	0.16	45	0.12	90
2011	1.05	0.80	0.45	9	0.30	20	0.16	45	0.12	90
2012	0.99	0.80	0.45	9	0.30	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Southern Alberta - Conventional - Mannville</b>										
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
2000	0.59	0.65	0.50	7	0.37	20	0.20	45	0.12	90
2001	0.60	0.95	0.67	9	0.33	23	0.20	45	0.12	90
2002	0.51	0.80	0.60	9	0.35	23	0.16	45	0.12	90
2003	0.30	0.50	0.40	7	0.35	20	0.25	45	0.12	90
2004	0.28	0.65	0.45	7	0.35	20	0.16	40	0.12	90
2005	0.25	0.60	0.55	7	0.45	20	0.16	40	0.12	90
2006	0.21	0.60	0.55	7	0.22	25	0.16	45	0.12	90
2007	0.24	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2008	0.30	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.28	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2010	0.28	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2011	0.29	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2012	0.30	0.65	0.40	7	0.22	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Southern Alberta - Tight - Upper Colorado</b>											
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	
2000	0.11	0.65	0.30	8	0.18	20	0.12	45			
2001	0.09	0.75	0.30	7	0.18	20	0.12	45			
2002	0.09	0.75	0.40	8	0.18	20	0.12	45			
2003	0.08	0.65	0.40	7	0.18	18	0.16	45	0.12	90	
2004	0.09	0.65	0.40	7	0.20	20	0.16	45	0.12	90	
2005	0.08	0.85	0.32	7	0.22	20	0.16	45	0.12	90	
2006	0.09	0.80	0.45	7	0.23	17	0.16	45	0.12	90	
2007	0.08	0.75	0.37	7	0.22	20	0.16	45	0.12	90	
2008	0.08	0.75	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.08	0.75	0.40	7	0.22	20	0.16	45	0.12	90	
2010	0.08	0.75	0.40	7	0.22	20	0.16	45	0.12	90	
2011	0.08	0.75	0.40	7	0.22	20	0.16	45	0.12	90	
2012	0.08	0.75	0.40	7	0.22	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Southwest Alberta - Conventional - Tertiary, Upper Cretaceous, Upper Colorado</b>											
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	
2000	0.34	0.95	0.45	8	0.28	25	0.16	50	0.12	120	
2001	0.26	0.80	0.40	7	0.28	25	0.16	50	0.12	120	
2002	0.27	0.75	0.65	7	0.25	20	0.16	45	0.12	90	
2003	0.19	0.80	0.40	8	0.30	20	0.16	35	0.12	90	
2004	0.19	1.10	0.50	8	0.25	30	0.16	45	0.12	90	
2005	0.16	1.20	0.40	8	0.25	25	0.16	50	0.12	90	
2006	0.14	1.10	0.40	7	0.22	20	0.16	45	0.12	90	
2007	0.16	1.30	0.50	7	0.25	20	0.16	45	0.12	90	
2008	0.13	1.20	0.50	7	0.22	20	0.16	45	0.12	90	
2009	0.13	1.20	0.45	7	0.22	20	0.16	45	0.12	90	
2010	0.13	1.20	0.45	7	0.22	20	0.16	45	0.12	90	
2011	0.12	1.20	0.45	7	0.22	20	0.16	45	0.12	90	
2012	0.12	1.20	0.45	7	0.22	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Southwest Alberta - Conventional - Colorado</b>											
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	
2000	0.78	1.30	0.35	19	0.12	90	0.12	120			
2001	0.40	1.00	0.35	9	0.12	90	0.12	120			
2002	0.34	1.00	0.35	9	0.12	50	0.12	120			
2003	0.23	0.75	0.40	12	0.30	25	0.12	80			
2004	0.23	0.70	0.66	20	0.12	60	0.12	500			
2005	0.11	0.75	0.20	17	0.20	45	0.20	500	0.20	500	
2006	0.25	1.20	0.60	11	0.22	25	0.16	60	0.12	90	
2007	0.21	1.40	0.80	11	0.40	30	0.12	90			
2008	0.38	2.90	0.40	12	0.22	20	0.16	45	0.12	90	
2009	0.33	1.50	0.50	12	0.22	25	0.16	60	0.12	90	
2010	0.30	1.50	0.50	12	0.22	25	0.16	60	0.12	90	
2011	0.25	1.50	0.50	12	0.22	25	0.16	60	0.12	90	
2012	0.22	1.50	0.50	12	0.22	25	0.16	60	0.12	90	

<b>Resource Grouping - Gas - Southwest Alberta - Conventional - Middle Mannville, Lower Mannville</b>										
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
2000	0.73	0.69	0.30	15	0.25	45	0.12	90		
2001	0.71	0.70	0.40	14	0.20	45	0.12	120		
2002	0.76	0.85	0.34	12	0.20	38	0.12	90		
2003	0.81	0.12	0.40	14	0.60	25	0.30	50	0.12	90
2004	0.52	0.65	0.50	12	0.18	26	0.12	50		
2005	0.69	0.97	0.55	12	0.40	26	0.12	50		
2006	0.63	0.85	0.60	11	0.40	25	0.12	50		
2007	0.53	0.65	0.55	11	0.40	25	0.16	45	0.12	90
2008	0.56	0.65	0.55	11	0.40	25	0.16	45	0.12	90
2009	0.55	0.65	0.55	11	0.40	25	0.16	45	0.12	90
2010	0.55	0.65	0.55	11	0.40	25	0.16	45	0.12	90
2011	0.50	0.65	0.55	11	0.40	25	0.16	45	0.12	90
2012	0.50	0.65	0.55	11	0.40	25	0.16	45	0.12	90

<b>Resource Grouping - Gas - Southwest Alberta - Conventional - Jurassic, Mississippian</b>										
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
2000	1.28	0.85	0.50	10	0.25	30	0.12	65	0.10	120
2001	1.02	0.85	0.65	10	0.22	35	0.12	60		
2002	1.24	1.20	0.30	10	0.16	22	0.12	90		
2003	0.41	0.35	0.20	7	0.16	20	0.10	40		
2004	0.40	0.50	0.25	7	0.20	20	0.12	45		
2005	0.59	0.70	0.65	8	0.22	20	0.16	45	0.12	90
2006	0.34	1.45	0.85	10	0.30	22	0.16	45	0.12	90
2007	0.42	1.45	0.45	9	0.22	20	0.16	45	0.12	90
2008	0.55	1.35	0.65	7	0.22	20	0.16	45	0.12	90
2009	0.55	1.35	0.65	9	0.22	22	0.16	45	0.12	90
2010	0.55	1.35	0.65	9	0.22	22	0.16	45	0.12	90
2011	0.55	1.35	0.65	9	0.22	22	0.16	45	0.12	90
2012	0.55	1.35	0.65	9	0.22	22	0.16	45	0.12	90

<b>Resource Grouping - Gas - Southwest Alberta - Conventional - Upper Devonian</b>										
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
2000	0.04	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2001	1.95	1.15	0.40	10	0.30	20	0.16	45	0.12	90
2002	0.86	1.35	0.40	10	0.25	20	0.16	50	0.12	90
2003	2.06	0.65	0.50	7	0.30	20	0.16	50	0.12	90
2004	0.70	0.65	0.20	7	0.16	20	0.12	45		
2005	0.10	0.45	0.40	7	0.22	20	0.16	45	0.12	90
2007	0.55	0.75	0.45	10	0.22	20	0.16	45	0.12	90
2008	0.27	0.95	0.45	7	0.22	20	0.16	45	0.12	90
2009	0.28	0.70	0.40	7	0.22	20	0.16	45	0.12	90
2010	0.28	0.70	0.40	7	0.22	20	0.16	45	0.12	90
2011	0.28	0.70	0.40	7	0.22	20	0.16	45	0.12	90
2012	0.28	0.70	0.40	7	0.22	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Southwest Alberta - Tight - Upper Colorado</b>										
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
2000	0.27	1.05	0.70	7	0.20	30	0.12	90		
2001	0.24	1.05	0.65	7	0.27	22	0.12	55		
2002	0.18	0.65	0.45	8	0.30	35	0.12	60		
2003	0.16	1.05	0.75	8	0.25	21	0.12	45		
2004	0.19	0.80	0.58	8	0.50	20	0.16	45	0.12	90
2005	0.13	1.75	0.45	8	0.40	18	0.25	30	0.12	90
2006	0.05	1.05	0.30	10	0.22	25	0.16	45	0.12	90
2007	0.07	1.05	0.30	10	0.22	25	0.16	45	0.12	90
2008	0.07	0.95	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.68	0.95	0.40	8	0.22	20	0.12	45	0.00	0
2010	0.68	0.95	0.40	8	0.22	20	0.12	45	0.00	0
2011	0.68	0.95	0.40	8	0.22	20	0.12	45	0.00	0
2012	0.68	0.95	0.40	8	0.22	20	0.12	45	0.00	0

<b>Resource Grouping - Gas - Southwest Alberta - Tight - Colorado</b>											
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	
2000	0.39	1.15	0.60	7	0.43	20	0.12	45			
2001	0.30	1.15	0.55	7	0.40	20	0.12	45			
2002	0.23	1.45	0.45	7	0.35	20	0.16	45	0.12	90	
2003	0.22	0.55	0.32	7	0.25	20	0.12	45			
2004	0.36	1.00	0.45	7	0.30	15	0.20	35	0.12	90	
2005	0.23	1.30	0.65	7	0.45	15	0.20	35	0.12	90	
2006	0.13	2.15	0.65	7	0.30	20	0.20	35	0.12	90	
2007	0.55	2.15	0.65	7	0.30	20	0.20	35	0.12	90	
2008	1.41	1.70	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.55	1.70	0.55	7	0.25	20	0.16	40	0.12	90	
2010	0.55	1.70	0.55	7	0.25	20	0.16	40	0.12	90	
2011	0.55	1.70	0.55	7	0.25	20	0.16	40	0.12	90	
2012	0.55	1.70	0.55	7	0.25	20	0.16	40	0.12	90	

<b>Resource Grouping - Gas - Southwest Alberta - Tight - Lower Mannville</b>											
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	
2000	1.20	1.25	0.40	7	0.16	20	0.12	45			
2001	1.10	1.15	0.40	7	0.16	15	0.12	45			
2002	0.96	0.65	0.35	7	0.22	20	0.16	45	0.12	90	
2003	0.63	0.55	0.30	7	0.20	20	0.12	45			
2004	0.54	0.05	0.30	7	0.22	20	0.16	45	0.12	90	
2005	0.80	1.25	0.40	7	0.22	20	0.16	45	0.12	90	
2006	0.87	0.70	0.40	6	0.22	30	0.12	90			
2007	0.73	0.70	0.40	7	0.30	20	0.16	45	0.12	90	
2008	0.54	0.75	0.45	7	0.22	20	0.16	45	0.12	90	
2009	0.55	0.70	0.40	7	0.22	20	0.16	45	0.12	90	
2010	0.55	0.70	0.40	7	0.22	20	0.16	45	0.12	90	
2011	0.55	0.70	0.40	7	0.22	20	0.16	45	0.12	90	
2012	0.55	0.70	0.40	7	0.22	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Southern Foothills - Conventional - Mississippian, Upper Devonian</b>											
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	
2000	6.60	0.95	0.60	7	0.12	20	0.12	45			
2001	1.39	0.95	0.40	7	0.22	20	0.16	45	0.12	90	
2002	4.04	0.05	0.05	7	0.05	20	0.50	45			
2003	2.20	1.15	0.40	7	0.16	20	0.12	45			
2004	2.75	0.05	0.80	20	0.40	30	0.16	45	0.12	90	
2005	1.87	0.65	0.45	7	0.22	20	0.16	45	0.12	90	
2006	2.20	0.05	0.80	7	0.40	15	0.16	45	0.12	90	
2007	1.43	0.05	0.80	9	0.40	15	0.16	45	0.12	90	
2008	1.98	0.05	0.80	9	0.40	15	0.16	45	0.12	90	
2009	1.98	0.05	0.80	9	0.40	15	0.16	45	0.12	90	
2010	1.98	0.05	0.80	9	0.40	15	0.15	45	0.12	90	
2011	1.98	0.05	0.80	9	0.40	15	0.15	45	0.12	90	
2012	1.98	0.05	0.80	9	0.40	15	0.15	45	0.12	90	

<b>Resource Grouping - Gas - Eastern Alberta - Conventional - Upper Cretaceous, Upper Colorado</b>											
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	
2000	0.30	1.05	0.60	7	0.50	20	0.12	45			
2001	0.19	1.05	0.45	7	0.30	20	0.12	45			
2002	0.27	1.00	0.45	7	0.40	20	0.30	45	0.12	60	
2003	0.16	1.15	0.55	6	0.37	20	0.16	45	0.12	90	
2004	0.13	1.15	0.55	6	0.30	20	0.16	45	0.12	90	
2005	0.10	0.95	0.45	6	0.25	18	0.16	45	0.12	90	
2006	0.05	1.15	0.50	7	0.20	18	0.16	45	0.12	90	
2007	0.05	0.80	0.40	6	0.22	18	0.16	45	0.12	90	
2008	0.06	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.06	0.70	0.40	7	0.25	20	0.12	50			
2010	0.06	0.70	0.40	7	0.25	20	0.12	50			
2011	0.06	0.70	0.40	7	0.25	20	0.12	50			
2012	0.06	0.70	0.40	7	0.25	20	0.12	50			

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
2000	0.41	0.95	0.60	7	0.30	20	0.18	45	0.12	90
2001	0.38	0.95	0.55	7	0.30	20	0.18	45	0.12	90
2002	0.37	0.85	0.40	7	0.32	20	0.20	45	0.12	90
2003	0.23	0.77	0.50	7	0.35	20	0.16	45	0.12	90
2004	0.20	0.85	0.55	7	0.35	20	0.16	45	0.12	90
2005	0.20	0.85	0.55	7	0.30	20	0.16	45	0.12	90
2006	0.18	0.77	0.45	8	0.35	20	0.16	35	0.12	90
2007	0.20	0.92	0.55	10	0.35	20	0.16	35	0.12	90
2008	0.21	0.95	0.55	9	0.22	20	0.16	45	0.12	90
2009	0.20	0.90	0.55	9	0.30	20	0.16	45	0.12	90
2010	0.20	0.90	0.55	9	0.30	20	0.16	45	0.12	90
2011	0.20	0.90	0.55	9	0.30	20	0.16	45	0.12	90
2012	0.20	0.90	0.55	9	0.30	20	0.16	45	0.12	90

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
2000	0.11	0.65	0.40	7	0.18	12	0.16	45	0.12	90
2001	0.09	0.95	0.30	7	0.20	20	0.15	45	0.10	90
2002	0.05	0.95	0.30	7	0.20	20	0.10	45		
2003	0.07	0.65	0.50	7	0.20	18	0.16	45	0.12	90
2004	0.07	0.95	0.40	7	0.20	20	0.16	45	0.12	90
2005	0.07	0.95	0.40	7	0.20	20	0.16	45	0.12	90
2006	0.07	0.85	0.40	8	0.22	20	0.16	45	0.12	90
2007	0.05	0.80	0.49	8	0.22	20	0.16	45	0.12	90
2008	0.05	0.85	0.40	8	0.22	20	0.16	45	0.12	90
2009	0.06	0.85	0.45	8	0.20	20	0.10	45		
2010	0.06	0.85	0.45	8	0.20	20	0.10	45		
2011	0.06	0.85	0.45	8	0.20	20	0.10	45		
2012	0.06	0.85	0.45	8	0.20	20	0.10	45		

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
2000	0.32	0.95	0.40	7	0.32	20	0.14	45	0.12	90
2001	0.33	1.15	0.40	7	0.25	20	0.16	45	0.12	90
2002	0.25	1.25	0.40	7	0.20	20	0.15	45	0.12	90
2003	0.20	0.85	0.40	7	0.25	20	0.16	45	0.12	90
2004	0.17	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2005	0.16	1.10	0.40	7	0.25	20	0.16	45	0.12	90
2006	0.12	0.85	0.45	7	0.22	20	0.16	45	0.12	90
2007	0.16	0.65	0.45	7	0.22	20	0.16	45	0.12	90
2008	0.13	0.67	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.13	0.70	0.45	7	0.22	20	0.15	45	0.12	90
2010	0.13	0.70	0.45	7	0.22	20	0.15	45	0.12	90
2011	0.13	0.70	0.45	7	0.22	20	0.15	45	0.12	90
2012	0.13	0.70	0.45	7	0.22	20	0.15	45	0.12	90

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
2000	0.39	1.55	0.60	7	0.25	20	0.20	45	0.12	90
2001	0.36	1.15	0.50	7	0.28	20	0.20	45	0.12	90
2002	0.25	1.55	0.50	7	0.28	20	0.12	45		
2003	0.19	1.05	0.50	7	0.22	20	0.16	45	0.12	90
2004	0.28	1.25	0.55	7	0.22	20	0.16	45	0.12	90
2005	0.23	1.25	0.45	7	0.22	20	0.16	45	0.12	90
2006	0.13	0.60	0.50	7	0.22	18	0.16	45	0.12	90
2007	0.13	0.60	0.50	7	0.22	20	0.16	45	0.12	90
2008	0.17	0.75	0.45	7	0.30	20	0.16	45	0.12	90
2009	0.17	0.70	0.50	7	0.22	20	0.12	50		
2010	0.17	0.70	0.50	7	0.22	20	0.12	50		
2011	0.15	0.70	0.50	7	0.22	20	0.12	50		
2012	0.15	0.70	0.50	7	0.22	20	0.12	50		

<b>Resource Grouping - Gas - Central Alberta - Conventional - Mannville</b>											
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	
2000	0.67	1.15	0.40	7	0.35	20	0.25	45	0.12	90	
2001	0.54	1.15	0.50	7	0.38	20	0.20	45	0.12	90	
2002	0.51	0.85	0.40	7	0.39	23	0.20	45	0.12	90	
2003	0.45	0.80	0.65	7	0.40	20	0.16	45	0.12	90	
2004	0.43	0.80	0.60	7	0.40	20	0.16	45	0.12	90	
2005	0.34	0.70	0.45	15	0.28	30	0.16	45	0.12	90	
2006	0.34	0.65	0.58	7	0.40	20	0.16	45	0.12	90	
2007	0.34	0.70	0.60	10	0.40	20	0.16	45	0.12	90	
2008	0.28	0.80	0.60	10	0.40	20	0.16	45	0.12	90	
2009	0.29	0.70	0.60	9	0.40	20	0.16	45	0.12	90	
2010	0.28	0.70	0.60	9	0.40	20	0.16	45	0.12	90	
2011	0.26	0.70	0.60	9	0.40	20	0.16	45	0.12	90	
2012	0.25	0.70	0.60	9	0.40	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Central Alberta - Conventional - Mississippian, Upper Devonian</b>											
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	
2000	0.60	1.15	0.60	7	0.30	20	0.22	45	0.12	90	
2001	0.56	1.15	0.45	6	0.20	20	0.12	45	0.12	90	
2002	0.44	1.05	0.45	7	0.25	20	0.16	45	0.12	90	
2003	1.20	0.85	0.55	7	0.20	15	0.16	45	0.12	90	
2004	0.66	0.20	0.35	14	0.22	60	0.16	90	0.12	120	
2005	0.44	0.90	0.40	7	0.25	20	0.16	45	0.12	90	
2006	0.29	0.85	0.65	7	0.35	20	0.16	45	0.12	90	
2007	0.25	0.65	0.35	7	0.22	20	0.16	45	0.12	90	
2008	0.26	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.26	0.65	0.40	7	0.20	20	0.16	45	0.12	90	
2010	0.26	0.65	0.40	7	0.20	20	0.16	45	0.12	90	
2011	0.26	0.65	0.40	7	0.20	20	0.16	45	0.12	90	
2012	0.26	0.65	0.40	7	0.20	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Central Alberta - Tight - Colorado</b>											
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	
2000	0.51	1.15	0.55	7	0.20	20	0.12	45			
2001	0.36	0.75	0.40	7	0.28	20	0.12	40			
2002	0.28	1.45	0.35	6	0.20	17	0.16	45	0.12	90	
2003	0.24	0.60	0.40	7	0.20	20	0.12	45			
2004	0.36	1.35	0.55	7	0.20	20	0.12	45			
2005	0.26	1.35	0.37	6	0.20	20	0.16	45	0.12	90	
2006	0.13	0.40	0.25	9	0.20	20	0.16	45	0.12	90	
2007	0.19	0.95	0.55	7	0.25	20	0.16	45	0.12	90	
2008	0.10	0.85	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.17	0.85	0.35	8	0.20	20	0.12	45			
2010	0.17	0.85	0.35	8	0.20	20	0.12	45			
2011	0.17	0.85	0.35	8	0.20	20	0.12	45			
2012	0.17	0.85	0.35	8	0.20	20	0.12	45			

<b>Resource Grouping - Gas - Central Alberta - Tight - Mannville</b>											
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	
2000	0.38	1.15	0.60	7	0.27	20	0.12	45			
2001	0.56	0.65	0.40	7	0.28	20	0.16	45	0.12	90	
2002	0.49	1.45	0.80	7	0.45	20	0.20	45	0.12	90	
2003	0.33	0.15	0.45	7	0.22	20	0.16	45			
2004	0.69	1.25	0.65	7	0.25	20	0.12	45			
2005	0.35	0.65	0.50	7	0.25	22	0.12	45			
2006	0.33	0.99	0.45	8	0.30	18	0.16	45	0.12	90	
2007	0.48	0.70	0.35	7	0.22	20	0.16	45	0.12	90	
2008	0.68	0.90	0.45	7	0.22	20	0.16	45	0.12	90	
2009	0.46	0.90	0.40	7	0.25	20	0.12	45			
2010	0.46	0.90	0.40	7	0.25	20	0.12	45			
2011	0.46	0.90	0.40	7	0.25	20	0.12	45			
2012	0.46	0.90	0.40	7	0.25	20	0.12	45			

<b>Resource Grouping - Gas - West Central Alberta - Conventional - Tertiary</b>										
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
2000	0.41	0.65	0.50	7	0.40	20	0.16	45	0.12	90
2001	0.30	0.95	0.30	7	0.28	20	0.16	45	0.12	90
2002	0.28	0.65	0.35	7	0.22	20	0.18	45	0.12	90
2003	0.22	0.65	0.40	7	0.27	20	0.16	45	0.12	90
2004	0.19	0.65	0.40	7	0.30	20	0.16	45	0.12	90
2005	0.14	0.65	0.50	7	0.23	20	0.16	45	0.12	90
2006	0.16	0.70	0.45	8	0.30	20	0.16	45	0.12	90
2007	0.16	0.70	0.43	8	0.30	20	0.16	45	0.12	90
2008	0.18	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.18	0.67	0.43	8	0.30	30	0.16	60	0.12	90
2010	0.18	0.67	0.43	8	0.30	30	0.16	60	0.12	90
2011	0.18	0.67	0.43	8	0.30	30	0.16	60	0.12	90
2012	0.18	0.67	0.43	8	0.30	30	0.16	60	0.12	90

<b>Resource Grouping - Gas - West Central Alberta - Conventional - Upper Cretaceous, Upper Colorado</b>										
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
2000	0.70	0.10	0.40	7	0.28	20	0.20	45	0.12	90
2001	0.42	0.85	0.47	7	0.35	20	0.12	45		
2002	0.45	0.85	0.45	7	0.25	20	0.12	45		
2003	0.47	0.70	0.43	7	0.22	20	0.15	45	0.12	90
2004	0.38	0.65	0.40	7	0.30	20	0.16	45	0.12	90
2005	0.35	1.05	0.40	7	0.22	20	0.16	45	0.12	90
2006	0.31	0.85	0.40	7	0.30	20	0.16	45	0.12	90
2007	0.34	0.25	0.33	7	0.22	18	0.16	45	0.12	90
2008	0.42	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.42	0.65	0.40	7	0.25	20	0.15	45	0.12	90
2010	0.42	0.65	0.40	7	0.25	20	0.15	45	0.12	90
2011	0.42	0.65	0.40	7	0.25	20	0.15	45	0.12	90
2012	0.42	0.65	0.40	7	0.25	20	0.15	45	0.12	90

<b>Resource Grouping - Gas - West Central Alberta - Conventional - Mannville</b>										
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
2000	1.15	0.05	0.50	12	0.35	25	0.30	45	0.12	90
2001	0.48	0.65	0.19	6	0.17	20	0.10	50	0.10	90
2002	0.65	0.65	0.25	7	0.22	20	0.12	45		
2003	0.83	1.05	0.37	6	0.30	20	0.12	45		
2004	0.69	1.05	0.45	6	0.35	20	0.18	45	0.12	90
2005	0.58	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2006	0.52	1.55	0.45	7	0.30	20	0.16	45	0.12	90
2007	0.42	1.65	0.40	8	0.22	20	0.16	45	0.12	90
2008	0.57	1.45	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.55	1.55	0.45	7	0.25	25	0.17	45	0.12	90
2010	0.55	1.55	0.45	7	0.25	25	0.17	45	0.12	90
2011	0.52	1.55	0.45	7	0.25	25	0.17	45	0.12	90
2012	0.52	1.55	0.45	7	0.25	25	0.17	45	0.12	90

<b>Resource Grouping - Gas - West Central Alberta - Conventional - Lower Mannville, Jurassic</b>										
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
2000	0.90	1.15	0.40	6	0.28	20	0.12	45		
2001	0.89	1.15	0.30	5	0.28	20	0.12	45		
2002	1.31	1.15	0.40	5	0.28	20	0.12	45		
2003	0.75	0.95	0.40	6	0.20	20	0.12	45		
2004	0.50	0.62	0.40	7	0.22	20	0.16	45	0.12	90
2005	0.68	0.60	0.45	7	0.30	20	0.16	45	0.12	90
2006	0.67	1.35	0.45	6	0.22	20	0.16	45	0.12	90
2007	0.56	1.15	0.45	6	0.22	20	0.16	45	0.12	90
2008	0.65	1.15	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.65	1.15	0.45	7	0.22	20	0.12	65		
2010	0.65	1.15	0.45	7	0.22	20	0.12	65		
2011	0.64	1.15	0.45	7	0.22	20	0.12	65		
2012	0.64	1.15	0.45	7	0.22	20	0.12	65		

<b>Resource Grouping - Gas - West Central Alberta - Conventional - Mississippian</b>											
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	
2000	2.40	0.65	0.40	7	0.33	20	0.35	45	0.12	90	
2001	1.72	0.30	0.40	7	0.50	20	0.16	45	0.12	90	
2002	2.33	0.30	0.65	8	0.55	20	0.16	42	0.12	90	
2003	0.76	0.65	0.40	7	0.38	20	0.16	45	0.12	90	
2004	0.66	0.95	0.60	6	0.28	20	0.12	35			
2005	0.92	0.15	0.25	10	0.40	20	0.16	45	0.12	90	
2006	1.26	0.75	0.50	7	0.35	20	0.20	45	0.12	90	
2007	0.79	0.65	0.30	7	0.22	20	0.16	45	0.12	90	
2008	0.39	1.45	0.50	7	0.25	20	0.16	45	0.12	90	
2009	0.39	0.80	0.45	7	0.25	20	0.16	45	0.12	90	
2010	0.33	0.80	0.45	7	0.25	20	0.16	45	0.12	90	
2011	0.28	0.80	0.45	7	0.25	20	0.16	45	0.12	90	
2012	0.22	0.80	0.45	7	0.25	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - West Central Alberta - Conventional - Upper Devonian</b>											
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	
2000	1.92	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2001	3.14	0.25	0.24	7	0.20	20	0.16	45	0.12	90	
2002	1.24	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2003	0.91	0.05	0.10	10	0.25	20	0.16	45	0.12	90	
2004	1.38	0.10	0.05	7	0.05	20					
2005	1.18	0.45	0.10	7	0.08	20	0.05	45			
2006	0.41	0.05	0.85	10	0.22	20	0.16	45	0.12	90	
2007	1.38	0.05	0.85	10	0.22	20	0.16	45	0.12	90	
2008	0.99	1.45	0.65	6	0.22	20	0.16	45	0.12	90	
2009	0.99	0.05	0.85	10	0.21	20	0.16	45	0.12	90	
2010	0.99	0.05	0.85	10	0.21	20	0.16	45	0.12	90	
2011	0.94	0.05	0.85	10	0.21	20	0.16	45	0.12	90	
2012	0.94	0.05	0.85	10	0.21	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - West Central Alberta - Tight - Colorado</b>											
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	
2000	0.61	0.65	0.55	7	0.22	20	0.15	45	0.12	90	
2001	0.59	0.05	0.35	7	0.65	25	0.12	40			
2002	0.40	1.35	0.33	8	0.29	20	0.12	45			
2003	0.40	0.95	0.50	7	0.30	20	0.16	45	0.12	90	
2004	0.36	0.15	0.10	7	0.12	20	0.12	45			
2005	0.46	1.15	0.35	7	0.20	20	0.12	45			
2006	0.67	0.85	0.35	6	0.22	20	0.16	45	0.12	90	
2007	0.51	0.85	0.45	6	0.22	20	0.16	45	0.12	90	
2008	1.29	0.85	0.45	7	0.22	20	0.16	45	0.12	90	
2009	0.77	0.85	0.45	6	0.22	20	0.12	45			
2010	0.76	0.85	0.45	6	0.22	20	0.12	45			
2011	0.75	0.85	0.45	6	0.22	20	0.12	45			
2012	0.74	0.85	0.45	6	0.22	20	0.12	45			

<b>Resource Grouping - Gas - West Central Alberta - Tight - Mannville</b>											
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	
2000	0.71	0.40	0.48	7	0.27	20	0.15	45	0.12	90	
2001	0.75	0.85	0.40	7	0.22	20	0.17	45	0.12	90	
2002	0.78	0.85	0.38	6	0.25	20	0.17	45	0.12	90	
2003	0.51	0.60	0.40	7	0.22	20	0.12	45			
2004	0.54	0.65	0.40	7	0.22	20	0.12	45			
2005	0.48	0.55	0.40	7	0.24	20	0.16	45	0.12	90	
2006	0.57	0.85	0.50	7	0.22	20	0.16	45	0.12	90	
2007	0.55	0.95	0.39	8	0.22	20	0.16	45	0.12	90	
2008	0.51	0.85	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.50	0.85	0.40	7	0.22	20	0.12	45			
2010	0.48	0.85	0.40	7	0.22	20	0.12	45			
2011	0.47	0.85	0.40	7	0.22	20	0.12	45			
2012	0.46	0.85	0.40	7	0.22	20	0.12	45			

<b>Resource Grouping - Gas - Central Foothills - Conventional - Upper Colorado</b>										
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
2000	1.55	0.65	0.40	7	0.25	20	0.17	45	0.12	90
2001	1.65	0.25	0.22	20	0.20	30	0.12	55		
2002	4.13	0.65	0.20	9	0.40	22	0.17	40	0.12	90
2003	1.15	0.65	0.43	7	0.24	20	0.16	45	0.12	90
2004	1.31	0.45	0.32	7	0.20	20	0.16	45	0.12	90
2005	0.79	0.35	0.28	7	0.20	20	0.16	45	0.12	90
2006	0.81	0.85	0.40	7	0.22	20	0.16	45	0.12	90
2007	0.63	1.55	0.60	7	0.30	20	0.16	45	0.12	90
2008	1.24	0.95	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.85	0.95	0.50	7	0.20	20	0.16	45	0.12	90
2010	0.85	0.95	0.50	7	0.20	20	0.16	45	0.12	90
2011	0.85	0.95	0.50	7	0.20	20	0.16	45	0.12	90
2012	0.85	0.95	0.50	7	0.20	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Central Foothills - Conventional - Colorado, Mannville</b>										
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
2000	2.34	0.05	0.40	25	0.30	35	0.18	60	0.12	120
2001	1.18	0.05	0.30	20	0.22	30	0.20	45	0.12	90
2002	2.71	0.65	0.50	7	0.28	20	0.15	45	0.12	90
2003	1.76	0.45	0.35	7	0.28	20	0.16	45	0.12	90
2004	1.79	0.25	0.45	7	0.30	20	0.16	45	0.12	90
2005	1.02	0.55	0.32	7	0.22	20	0.16	45	0.12	90
2006	1.29	0.75	0.40	7	0.22	20	0.16	45	0.12	90
2007	1.56	1.30	0.65	7	0.30	20	0.16	45	0.12	90
2008	3.30	1.30	0.40	7	0.22	20	0.16	45	0.12	90
2009	2.20	1.30	0.45	7	0.25	20	0.16	45	0.12	90
2010	2.20	1.30	0.45	7	0.25	20	0.15	45	0.12	90
2011	2.20	1.30	0.45	7	0.25	20	0.15	45	0.12	90
2012	2.20	1.30	0.45	7	0.25	20	0.15	45	0.12	90

<b>Resource Grouping - Gas - Central Foothills - Conventional - Jurassic, Triassic, Permian</b>										
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
2000	1.89	0.75	0.55	7	0.30	20	0.16	45	0.12	90
2001	1.82	0.10	0.15	15	0.30	50	0.16	65	0.12	90
2002	2.82	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2003	5.93	0.25	0.35	7	0.22	20	0.16	45	0.12	90
2004	3.58	0.15	0.35	12	0.22	20	0.16	45	0.12	90
2005	4.72	0.65	0.40	7	0.30	20	0.16	45	0.12	90
2006	4.39	0.65	0.40	7	0.30	20	0.16	45	0.12	90
2007	7.26	0.75	0.40	8	0.22	20	0.16	45	0.12	90
2008	5.70	0.75	0.40	7	0.22	20	0.16	45	0.12	90
2009	5.50	0.75	0.40	7	0.22	20	0.16	45	0.12	90
2010	5.50	0.75	0.40	7	0.22	20	0.16	45	0.12	90
2011	5.50	0.75	0.40	7	0.22	20	0.16	45	0.12	90
2012	5.50	0.75	0.40	7	0.22	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Central Foothills - Conventional - Mississippian</b>										
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
2000	4.57	0.15	0.30	7	0.12	20	0.15	45	0.12	90
2001	5.84	0.85	0.40	7	0.12	20	0.12	45		
2002	4.51	0.25	0.26	7	0.12	20	0.08	45		
2003	4.17	0.35	0.20	7	0.15	20	0.05	45		
2004	3.13	0.65	0.30	7	0.20	20	0.16	45	0.12	90
2005	2.25	0.65	0.38	7	0.15	18	0.10	45		
2006	2.06	0.23	0.18	7	0.16	20	0.14	45	0.12	90
2007	3.68	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2008	2.89	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2009	2.89	0.65	0.40	7	0.16	18	0.11	45		
2010	2.89	0.65	0.40	7	0.16	18	0.11	45		
2011	2.89	0.65	0.40	7	0.16	18	0.11	45		
2012	2.89	0.65	0.40	7	0.16	18	0.11	45		

<b>Resource Grouping - Gas - Central Foothills - Conventional - Upper Devonian, Middle Devonian</b>											
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	
2000	2.48	0.40	0.20	7	0.16	20	0.12	45	0.10	90	
2001	5.38	0.25	0.20	10	0.40	25	0.16	45	0.12	90	
2002	6.82	0.10	0.20	45	0.12	55	0.12	80			
2003	2.98	0.05	0.40	10	0.12	18	0.12	45			
2004	2.48	0.05	0.25	10	0.20	18	0.18	45			
2005	14.19	0.10	0.10	7							
2006	2.42	0.20	0.18	10	0.16	20	0.14	45	0.12	90	
2007	2.20	0.95	0.85	7	0.40	20	0.16	45	0.12	90	
2008	1.90	0.95	0.50	7	0.22	20	0.16	45	0.12	90	
2009	1.90	0.95	0.50	7	0.20	20	0.14	45	0.11	90	
2010	1.90	0.95	0.50	7	0.20	20	0.14	45	0.11	90	
2011	1.90	0.95	0.50	7	0.20	20	0.14	45	0.11	90	
2012	1.90	0.95	0.50	7	0.20	20	0.14	45	0.11	90	

<b>Resource Grouping - Gas - Central Foothills - Tight - Colorado</b>											
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate	
2001	0.94	0.17	0.45	60	0.20	75	0.12	90			
2002	0.30	0.65	0.40	7	0.12	20	0.08	45			
2003	0.54	0.65	0.45	18	0.25	42	0.18	80	0.25	500	
2004	0.61	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2005	2.88	0.25	0.45	10	0.40	20	0.12	45			
2006	0.85	0.50	0.40	7	0.22	20	0.16	45	0.12	90	
2007	1.05	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2008	2.53	0.85	0.40	7	0.22	20	0.16	45	0.12	90	
2009	1.83	0.75	0.40	7	0.22	20	0.16	45	0.12	90	
2010	1.83	0.75	0.40	7	0.22	20	0.16	45	0.12	90	
2011	1.83	0.75	0.40	7	0.22	20	0.16	45	0.12	90	
2012	1.83	0.75	0.40	7	0.22	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Central Foothills - Tight - Mannville</b>											
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	
2000	1.15	0.25	0.40	7	0.22	20	0.16	45	0.12	90	
2001	0.50	0.25	0.40	7	0.22	20	0.16	45	0.12	90	
2002	0.78	0.20	0.22	7	0.22	20	0.16	45	0.12	90	
2004	1.49	2.95	0.65	7	0.22	20	0.16	45	0.12	90	
2005	0.26	0.25	0.40	7	0.22	20	0.16	45	0.12	90	
2006	2.33	1.15	0.65	10	0.45	20	0.16	45	0.12	90	
2007	1.12	1.95	0.75	10	0.45	20	0.16	45	0.12	90	
2008	0.13	1.45	0.40	10	0.22	20	0.16	45	0.12	90	
2009	0.96	1.20	0.65	10	0.25	20	0.16	45	0.12	90	
2010	0.96	1.20	0.65	10	0.25	20	0.16	45	0.12	90	
2011	0.96	1.20	0.65	10	0.25	20	0.16	45	0.12	90	
2012	0.96	1.20	0.65	10	0.25	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Central Foothills - Tight - Jurassic</b>											
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	2.67	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2006	1.21	0.70	0.40	10	0.22	25	0.16	45	0.12	90	
2007	1.65	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2008	2.33	0.85	0.40	7	0.22	20	0.16	45	0.12	90	
2009	2.32	0.75	0.40	7	0.22	20	0.16	45	0.12	90	
2010	2.32	0.75	0.25	7	0.22	20	0.16	45	0.12	90	
2011	2.32	0.75	0.25	7	0.22	20	0.16	45	0.12	90	
2012	2.32	0.75	0.25	7	0.22	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Kaybob - Conventional - Colorado</b>										
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
2000	1.21	0.95	0.50	7	0.37	20	0.22	45	0.12	90
2001	0.59	1.15	0.55	5	0.45	20	0.10	45		
2002	0.52	1.05	0.55	6	0.30	20	0.16	45	0.12	90
2003	0.70	1.65	0.55	7	0.28	20	0.12	45		
2004	0.79	1.65	0.58	7	0.25	20	0.12	45		
2005	0.62	1.25	0.50	7	0.25	20	0.12	45		
2006	0.55	1.45	0.45	7	0.25	20	0.16	45	0.12	90
2007	0.66	1.15	0.45	7	0.25	20	0.16	45	0.12	90
2008	0.80	1.45	0.45	7	0.22	20	0.16	45	0.12	90
2009	0.66	1.25	0.45	7	0.25	20	0.12	45		
2010	0.66	1.25	0.45	7	0.25	20	0.12	45		
2011	0.66	1.25	0.45	7	0.25	20	0.12	45		
2012	0.66	1.25	0.45	7	0.25	20	0.12	45		

<b>Resource Grouping - Gas - Kaybob - Conventional - Mannville, Jurassic</b>										
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
2000	1.38	0.65	0.64	7	0.35	20	0.22	45	0.12	90
2001	0.85	0.75	0.45	7	0.40	20	0.20	45	0.12	90
2002	0.86	1.15	0.53	7	0.33	20	0.20	45	0.12	90
2003	0.87	0.65	0.40	7	0.35	20	0.16	45	0.12	90
2004	0.70	0.65	0.45	7	0.43	20	0.16	45	0.12	90
2005	0.92	1.15	0.55	7	0.30	20	0.16	45	0.12	90
2006	0.86	1.15	0.55	7	0.30	20	0.16	45	0.12	90
2007	0.85	0.25	0.85	12	0.22	30	0.16	60	0.12	90
2008	0.82	1.15	0.55	7	0.30	20	0.16	45	0.12	90
2009	0.83	1.05	0.55	7	0.30	20	0.16	45	0.12	90
2010	0.83	1.05	0.55	7	0.30	20	0.16	45	0.12	90
2011	0.83	1.05	0.55	7	0.30	20	0.16	45	0.12	90
2012	0.83	1.05	0.55	7	0.30	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Kaybob - Conventional - Triassic</b>										
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
2000	0.72	0.65	0.32	7	0.25	20	0.12	45	0.10	90
2001	1.03	0.85	0.35	7	0.30	20	0.18	45	0.12	90
2002	1.45	0.65	0.40	7	0.28	20	0.16	45	0.12	90
2003	1.13	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2004	1.31	1.25	0.50	7	0.22	20	0.16	45	0.12	90
2005	1.12	0.65	0.47	7	0.22	20	0.16	45	0.12	90
2006	1.02	1.25	0.50	8	0.25	20	0.16	45	0.12	90
2007	0.93	0.65	0.50	7	0.22	25	0.16	45	0.12	90
2008	1.57	1.55	0.40	8	0.22	20	0.16	45	0.12	90
2009	1.10	1.25	0.45	8	0.22	20	0.16	45	0.12	90
2010	1.10	1.25	0.45	8	0.22	20	0.16	45	0.12	90
2011	1.10	1.25	0.45	8	0.22	20	0.16	45	0.12	90
2012	1.10	1.25	0.45	8	0.22	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Kaybob - Conventional - Upper Devonian</b>										
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
2000	1.58	0.95	0.35	7	0.22	20	0.22	45	0.12	90
2001	0.75	0.95	0.50	7	0.30	20	0.20	45	0.12	90
2002	0.94	0.15	0.40	7	0.22	20	0.16	45	0.12	90
2003	1.51	0.65	0.40	7	0.12	20	0.05	45		
2005	0.10	0.70	0.50	7	0.30	20	0.16	45	0.12	90
2006	1.40	0.75	0.60	10	0.22	30	0.16	60	0.12	90
2007	1.40	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2008	0.79	1.05	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.88	0.75	0.40	7	0.20	20	0.10	65		
2010	0.88	0.75	0.30	7	0.20	20	0.10	65		
2011	0.88	0.75	0.30	7	0.20	20	0.10	65		
2012	0.88	0.75	0.30	7	0.20	20	0.10	65		

<b>Resource Grouping - Gas - Kaybob - Tight - Colorado, Mannville</b>											
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	
2000	0.82	0.45	0.50	7	0.30	20	0.16	45	0.12	90	
2001	0.67	1.25	0.40	7	0.23	20	0.16	45	0.12	90	
2002	0.79	1.25	0.37	7	0.18	20	0.14	45	0.12	90	
2003	0.75	1.05	0.40	7	0.22	20	0.16	45	0.12	90	
2004	0.68	0.95	0.30	7	0.20	20	0.16	45	0.12	90	
2005	0.77	1.15	0.50	7	0.24	20	0.16	45	0.12	90	
2006	0.76	0.95	0.40	8	0.30	20	0.16	45	0.12	90	
2007	0.62	1.25	0.40	8	0.30	20	0.16	45	0.12	90	
2008	0.65	1.25	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.66	1.15	0.40	8	0.25	20	0.16	45	0.12	90	
2010	0.66	1.15	0.40	8	0.25	20	0.16	45	0.12	90	
2011	0.66	1.15	0.40	8	0.25	20	0.16	45	0.12	90	
2012	0.66	1.15	0.40	8	0.25	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Cretaceous</b>											
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	
2000	0.54	0.65	0.50	7	0.30	20	0.16	45	0.12	90	
2001	1.16	0.95	0.45	7	0.37	20	0.16	45	0.12	90	
2002	0.79	1.20	0.37	7	0.20	20	0.14	45	0.12	90	
2003	0.79	1.20	0.50	7	0.25	20	0.16	45	0.12	90	
2004	0.56	0.65	0.50	7	0.30	20	0.16	45	0.12	90	
2005	0.50	1.05	0.40	7	0.25	20	0.16	45	0.12	90	
2006	0.31	0.65	0.35	7	0.12	18	0.12	45			
2007	0.37	1.65	0.40	7	0.22	20	0.16	45	0.12	90	
2008	0.57	0.85	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.55	0.85	0.40	7	0.22	20	0.16	45	0.12	90	
2010	0.55	0.85	0.40	7	0.22	20	0.16	45	0.12	90	
2011	0.55	0.85	0.40	7	0.22	20	0.16	45	0.12	90	
2012	0.55	0.85	0.40	7	0.22	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Colorado</b>											
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	
2000	0.88	1.05	0.30	6	0.22	20	0.16	45	0.12	80	
2001	0.94	1.15	0.40	6	0.22	20	0.16	45	0.12	90	
2002	0.84	1.15	0.45	6	0.22	20	0.16	45	0.12	90	
2003	0.65	1.25	0.42	7	0.22	20	0.16	45	0.12	90	
2004	0.61	0.95	0.40	7	0.28	20	0.12	45			
2005	0.68	0.97	0.40	6	0.30	20	0.16	45	0.12	90	
2006	0.66	1.25	0.30	7	0.22	20	0.16	45	0.12	90	
2007	0.69	1.25	0.40	6	0.22	20	0.16	45	0.12	90	
2008	0.44	1.25	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.44	1.25	0.35	7	0.25	20	0.16	45	0.12	90	
2010	0.44	1.25	0.35	7	0.25	20	0.16	45	0.12	90	
2011	0.44	1.25	0.35	7	0.25	20	0.16	45	0.12	90	
2012	0.44	1.25	0.35	7	0.25	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Alberta Deep Basin - Conventional - Mannville, Jurassic</b>											
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	
2000	0.49	1.05	0.60	7	0.20	20	0.06	45			
2001	1.35	1.45	0.60	11	0.20	25	0.06	50			
2002	1.00	1.15	0.20	7	0.18	20	0.10	45			
2003	1.38	1.95	0.48	7	0.22	20	0.16	45	0.12	90	
2004	0.97	1.95	0.80	7	0.22	20	0.16	45	0.12	90	
2005	0.73	1.65	0.80	7	0.22	20	0.16	45	0.12	90	
2006	0.40	1.05	0.30	7	0.22	18	0.16	45	0.12	90	
2007	0.48	1.65	0.45	9	0.22	18	0.16	45	0.12	90	
2008	0.87	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.88	1.05	0.40	7	0.22	20	0.16	45	0.12	90	
2010	0.83	1.05	0.40	7	0.22	20	0.16	45	0.12	90	
2011	0.66	1.05	0.40	7	0.22	20	0.16	45	0.12	90	
2012	0.72	1.05	0.40	7	0.22	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Alberta Deep Basin - Conventional - Triassic</b>										
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
2000	0.89	0.20	0.30	7	0.22	20	0.12	45		
2001	1.02	0.05	0.20	45						
2002	2.14	0.30	0.45	7	0.25	20	0.16	45	0.12	90
2003	2.30	0.75	0.45	7	0.25	20	0.16	45	0.12	90
2004	1.56	0.75	0.55	7	0.25	20	0.16	45	0.12	90
2005	1.09	0.85	0.45	7	0.29	20	0.16	45	0.12	90
2006	1.15	0.85	0.40	7	0.35	20	0.16	45	0.12	90
2007	0.62	0.70	0.55	7	0.22	20	0.16	45	0.12	90
2008	1.36	1.45	0.50	8	0.22	20	0.16	45	0.12	90
2009	1.32	0.85	0.50	7	0.26	20	0.16	45	0.12	90
2010	1.27	0.85	0.50	7	0.26	20	0.16	45	0.12	90
2011	1.21	0.85	0.50	7	0.26	20	0.16	45	0.12	90
2012	1.16	0.85	0.50	7	0.26	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Alberta Deep Basin - Conventional - Upper Devonian</b>										
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
2000	3.27	0.95	0.45	7	0.28	20	0.20	45	0.12	90
2001	2.17	0.95	0.50	7	0.35	20	0.12	45		
2002	3.09	0.65	0.30	7	0.22	20	0.16	45	0.12	90
2003	2.14	0.70	0.60	7	0.22	20	0.16	45	0.12	90
2004	3.19	0.60	0.15	7	0.10	20	0.70	45	0.12	80
2005	1.49	1.35	0.40	7	0.25	20	0.16	45	0.12	90
2006	0.03	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2007	4.40	0.05	0.95	15	0.22	25	0.16	45	0.12	90
2008	0.98	1.95	0.65	7	0.22	20	0.16	45	0.12	90
2009	1.72	1.50	0.65	7	0.22	20	0.16	45	0.12	90
2010	1.72	1.50	0.65	7	0.22	20	0.16	45	0.12	90
2011	1.72	1.50	0.65	7	0.22	20	0.16	45	0.12	90
2012	1.72	1.50	0.65	7	0.22	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Alberta Deep Basin - Tight - Upper Colorado</b>										
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
2000	1.57	1.15	0.40	7	0.25	20	0.15	45	0.12	90
2001	1.23	1.05	0.38	6	0.24	20	0.12	45		
2002	1.14	1.05	0.40	7	0.18	20	0.15	45	0.12	90
2003	0.71	0.75	0.42	7	0.22	20	0.16	45	0.12	90
2004	0.72	0.65	0.42	7	0.22	20	0.16	45	0.12	90
2005	0.58	0.85	0.40	7	0.22	20	0.16	45	0.12	90
2006	0.59	0.65	0.45	7	0.22	20	0.16	45	0.12	90
2007	0.54	0.70	0.40	10	0.22	20	0.16	45	0.12	90
2008	0.84	0.85	0.40	9	0.22	20	0.16	45	0.12	90
2009	0.66	0.70	0.43	8	0.22	20	0.16	45	0.12	90
2010	0.66	0.70	0.43	8	0.22	20	0.16	45	0.12	90
2011	0.66	0.70	0.43	8	0.22	20	0.16	45	0.12	90
2012	0.66	0.70	0.43	8	0.22	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Alberta Deep Basin - Tight - Colorado</b>										
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
2000	1.33	1.45	0.40	7	0.22	20	0.16	45	0.12	90
2001	1.21	0.65	0.40	7	0.28	20	0.16	45	0.12	90
2002	1.32	0.65	0.40	7	0.45	20	0.12	40		
2003	0.82	0.65	0.40	7	0.25	20	0.16	45	0.12	90
2004	0.69	0.50	0.40	7	0.50	20	0.12	35		
2005	0.35	0.15	0.40	9	0.30	20	0.16	45	0.12	90
2006	0.55	0.65	0.45	7	0.22	20	0.16	45	0.12	90
2007	0.83	0.65	0.45	7	0.22	20	0.16	45	0.12	90
2008	0.94	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.94	0.65	0.45	7	0.24	20	0.16	45	0.12	90
2010	0.94	0.65	0.45	7	0.24	20	0.16	45	0.12	90
2011	0.94	0.65	0.45	7	0.24	20	0.16	45	0.12	90
2012	0.94	0.65	0.45	7	0.24	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Alberta Deep Basin - Tight - Mannville, Jurassic</b>											
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	
2000	1.57	1.25	0.50	7	0.22	20	0.16	45	0.12	90	
2001	1.37	1.30	0.52	7	0.27	20	0.12	45			
2002	1.34	0.95	0.40	7	0.24	20	0.16	45	0.12	90	
2003	1.13	0.65	0.43	7	0.32	20	0.16	45	0.12	90	
2004	0.81	0.65	0.40	7	0.29	20	0.16	45	0.12	90	
2005	0.67	0.65	0.50	7	0.25	20	0.16	45	0.12	90	
2006	0.66	0.65	0.50	7	0.22	20	0.16	45	0.12	90	
2007	0.83	0.65	0.50	7	0.22	20	0.16	45	0.12	90	
2008	1.15	1.05	0.40	7	0.22	20	0.16	45	0.12	90	
2009	1.16	0.65	0.45	7	0.26	20	0.16	45	0.12	90	
2010	1.05	0.65	0.45	7	0.26	20	0.16	45	0.12	90	
2011	0.94	0.65	0.45	7	0.26	20	0.16	45	0.12	90	
2012	0.83	0.65	0.45	7	0.26	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Northeast Alberta - Conventional - Mannville, Upper Devonian</b>											
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	
2000	0.42	0.35	0.30	7	0.22	20	0.23	45	0.12	90	
2001	0.31	0.35	0.25	7	0.15	20	0.20	45	0.10	90	
2002	0.31	0.25	0.28	7	0.20	20	0.19	45	0.12	90	
2003	0.29	0.45	0.30	7	0.27	20	0.20	45	0.12	90	
2004	0.24	0.10	0.38	7	0.24	20	0.16	45	0.12	90	
2005	0.25	0.65	0.45	7	0.22	24	0.16	45	0.12	90	
2006	0.19	0.65	0.40	7	0.25	20	0.16	45	0.12	90	
2007	0.22	0.65	0.43	7	0.22	20	0.16	45	0.12	90	
2008	0.22	0.70	0.45	7	0.22	20	0.16	45	0.12	90	
2009	0.22	0.65	0.45	7	0.22	20	0.16	45	0.12	90	
2010	0.22	0.65	0.45	7	0.22	20	0.16	45	0.12	90	
2011	0.22	0.65	0.45	7	0.22	20	0.16	45	0.12	90	
2012	0.22	0.65	0.45	7	0.22	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Peace River - Conventional - Upper Colorado</b>											
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	
2000	0.42	0.95	0.40	7	0.22	20	0.16	45	0.12	90	
2001	0.52	0.95	0.40	11	0.22	25	0.12	45			
2002	0.53	0.15	0.40	7	0.22	20	0.52	45	0.12	90	
2003	0.89	0.35	0.50	8	0.42	20	0.30	45	0.12	90	
2004	0.44	0.65	0.40	7	0.32	20	0.16	45	0.12	90	
2005	0.44	0.65	0.55	7	0.42	20	0.16	45	0.12	90	
2006	0.29	0.85	0.40	7	0.30	20	0.16	45	0.12	90	
2007	0.43	0.85	0.45	7	0.22	20	0.16	45	0.12	90	
2008	0.26	0.85	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.28	0.85	0.40	7	0.27	20	0.16	45	0.12	90	
2010	0.28	0.85	0.40	7	0.27	20	0.16	45	0.12	90	
2011	0.28	0.85	0.40	7	0.27	20	0.16	45	0.12	90	
2012	0.28	0.85	0.40	7	0.27	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Peace River - Conventional - Colorado, Upper Mannville</b>											
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	
2000	0.91	0.75	0.42	10	0.35	20	0.30	45	0.12	90	
2001	0.67	1.05	0.55	7	0.30	20	0.35	45	0.12	90	
2002	0.55	1.25	0.55	7	0.56	20	0.35	45	0.12	90	
2003	0.53	0.75	0.45	7	0.75	20	0.25	45	0.12	90	
2004	0.74	0.65	0.75	7	0.65	20	0.25	45	0.12	90	
2005	0.55	0.65	0.40	7	0.45	20	0.16	45	0.12	90	
2006	0.46	0.85	0.50	7	0.65	20	0.16	45	0.12	90	
2007	0.51	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2008	0.42	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.42	0.65	0.45	7	0.30	20	0.16	45	0.12	90	
2010	0.42	0.65	0.45	7	0.30	20	0.16	45	0.12	90	
2011	0.42	0.65	0.45	7	0.30	20	0.16	45	0.12	90	
2012	0.42	0.65	0.45	7	0.30	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Peace River - Conventional - Middle Mannville, Lower Mannville</b>										
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
2000	1.09	1.25	0.60	7	0.39	20	0.23	45	0.12	90
2001	0.79	0.95	0.30	7	0.18	20	0.22	45	0.12	90
2002	1.11	1.15	0.70	7	0.45	20	0.20	45	0.12	90
2003	0.84	0.65	0.75	7	0.45	20	0.16	45	0.12	90
2004	0.59	0.05	0.75	10	0.45	20	0.25	45	0.12	90
2005	0.81	1.05	0.85	7	0.40	20	0.20	45	0.12	90
2006	0.67	1.15	0.55	7	0.30	20	0.16	45	0.12	90
2007	0.80	1.55	0.65	7	0.30	20	0.16	45	0.12	90
2008	0.50	1.45	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.50	1.40	0.55	7	0.30	20	0.20	45	0.12	90
2010	0.50	1.40	0.55	7	0.30	20	0.20	45	0.12	90
2011	0.50	1.40	0.55	7	0.30	20	0.20	45	0.12	90
2012	0.50	1.40	0.55	7	0.30	20	0.20	45	0.12	90

<b>Resource Grouping - Gas - Peace River - Conventional - Upper Triassic</b>										
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
2000	1.41	0.65	0.53	7	0.35	20	0.25	45	0.12	90
2001	1.32	0.25	0.30	7	0.50	25	0.35	45	0.12	90
2002	1.87	1.25	0.75	7	0.37	20	0.16	45	0.12	90
2003	1.88	0.95	0.60	7	0.40	20	0.20	45	0.12	90
2004	0.55	0.65	0.50	7	0.25	20	0.16	45	0.12	90
2005	0.75	0.65	0.75	7	0.45	20	0.20	45	0.12	90
2006	0.86	0.85	0.50	7	0.30	20	0.16	45	0.12	90
2007	0.76	1.65	0.65	7	0.30	20	0.16	45	0.12	90
2008	0.98	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.97	0.85	0.40	7	0.25	20	0.16	45	0.12	90
2010	0.97	0.85	0.40	7	0.25	20	0.16	45	0.12	90
2011	0.97	0.85	0.40	7	0.25	20	0.16	45	0.12	90
2012	0.97	0.85	0.40	7	0.25	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Peace River - Conventional - Lower Triassic</b>										
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
2000	0.95	1.15	0.40	7	0.20	18	0.16	45	0.12	90
2001	0.96	0.85	0.40	7	0.30	20	0.23	45	0.12	90
2002	1.11	0.85	0.37	7	0.25	20	0.16	45	0.12	90
2003	0.74	1.15	0.50	7	0.20	20	0.10	45		
2004	0.99	1.05	0.65	7	0.20	25	0.12	45		
2005	0.70	1.25	0.60	7	0.22	20	0.16	45	0.12	90
2006	0.73	1.15	0.40	7	0.30	20	0.16	45	0.12	90
2007	0.74	1.15	0.45	7	0.30	20	0.16	45	0.12	90
2008	1.06	0.70	0.40	7	0.22	20	0.16	45	0.12	90
2009	1.05	1.00	0.45	7	0.25	20	0.12	45		
2010	0.99	1.00	0.45	7	0.25	20	0.12	45		
2011	0.94	1.00	0.45	7	0.25	20	0.12	45		
2012	0.88	1.00	0.45	7	0.25	20	0.12	45		

<b>Resource Grouping - Gas - Peace River - Conventional - Mississippian</b>										
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
2000	1.17	1.25	0.70	7	0.37	20	0.20	45	0.12	90
2001	1.87	0.35	0.50	10	0.40	20	0.30	45	0.12	90
2002	3.67	1.65	0.60	8	0.46	20	0.16	45	0.12	90
2003	1.37	0.25	0.75	12	0.20	30	0.12	55		
2004	0.80	0.25	0.35	8	0.25	20	0.20	45	0.12	90
2005	0.69	0.25	0.55	9	0.22	25	0.16	45	0.12	90
2006	0.69	1.15	0.40	7	0.30	20	0.16	45	0.12	90
2007	0.70	1.35	0.60	8	0.30	20	0.16	45	0.12	90
2008	1.08	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2009	1.05	1.00	0.50	8	0.23	20	0.16	45	0.12	90
2010	0.99	1.00	0.50	8	0.23	20	0.16	45	0.12	90
2011	0.94	1.00	0.50	8	0.23	20	0.16	45	0.12	90
2012	0.88	1.00	0.50	8	0.23	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Peace River - Conventional - Upper Devonian, Middle Devonian</b>											
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	
2000	0.52	1.25	0.75	9	0.40	20	0.20	45	0.12	90	
2001	2.04	0.65	0.40	7	0.30	20	0.16	45	0.12	90	
2002	5.90	0.15	0.55	25	0.30	40	0.20	60	0.12	90	
2003	1.43	0.65	1.10	7	0.22	28	0.16	45	0.12	90	
2004	2.69	0.65	0.75	7	0.22	20	0.16	45	0.12	90	
2005	3.59	0.10	0.95	10	0.22	28	0.16	45	0.12	90	
2006	0.76	1.43	0.40	9	0.22	20	0.16	45	0.12	90	
2007	3.21	3.55	0.65	15	0.22	25	0.16	45	0.12	90	
2008	0.58	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2009	2.04	1.40	0.45	8	0.22	20	0.16	45	0.12	90	
2010	2.04	1.40	0.45	8	0.22	20	0.16	45	0.12	90	
2011	2.04	1.40	0.45	8	0.22	20	0.16	45	0.12	90	
2012	2.04	1.40	0.45	8	0.22	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Northwest Alberta - Conventional - Mannville</b>											
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	
2000	0.19	0.15	0.30	7	0.22	20	0.19	45	0.12	90	
2001	0.21	0.65	0.35	7	0.22	20	0.16	45	0.12	90	
2002	0.19	0.75	0.35	7	0.22	20	0.16	45	0.12	90	
2003	0.14	0.75	0.30	9	0.22	20	0.12	45			
2004	0.09	0.05	0.30	10	0.16	20	0.12	45			
2005	0.10	0.05	0.40	7	0.22	20	0.16	45	0.12	90	
2006	0.13	0.35	0.22	7	0.20	20	0.16	45	0.12	90	
2007	0.18	0.70	0.40	8	0.22	20	0.16	45	0.12	90	
2008	0.30	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.26	0.65	0.40	7	0.20	20	0.12	45			
2010	0.24	0.65	0.40	7	0.20	20	0.12	45			
2011	0.22	0.65	0.40	7	0.20	20	0.12	45			
2012	0.20	0.65	0.40	7	0.20	20	0.12	45			

<b>Resource Grouping - Gas - Northwest Alberta - Conventional - Mississippian</b>											
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	
2000	0.94	0.15	0.50	10	0.35	20	0.20	45	0.12	90	
2001	0.73	0.65	0.30	7	0.32	30	0.20	45	0.12	90	
2002	0.62	0.65	0.26	7	0.30	20	0.22	45	0.12	90	
2003	0.28	0.65	0.30	7	0.10	20	0.05	45	0.05	90	
2004	0.48	0.65	0.60	7	0.25	20	0.10	45	0.05	90	
2005	0.27	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2006	0.17	0.95	0.25	6	0.16	20	0.16	45	0.12	90	
2007	0.27	0.95	0.50	7	0.22	20	0.16	45	0.12	90	
2008	0.15	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.17	0.85	0.45	7	0.20	20	0.10	45	0.05	90	
2010	0.17	0.85	0.45	7	0.20	20	0.10	45	0.05	90	
2011	0.17	0.85	0.45	7	0.20	20	0.10	45	0.05	90	
2012	0.17	0.85	0.45	7	0.20	20	0.10	45	0.05	90	

<b>Resource Grouping - Gas - Northwest Alberta - Conventional - Upper Devonian</b>											
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	
2000	1.92	1.25	0.45	7	0.30	20	0.20	45	0.12	90	
2001	1.78	1.05	0.50	7	0.70	20	0.20	45	0.12	90	
2002	1.75	1.45	0.95	7	0.32	20	0.20	45	0.12	90	
2003	1.66	0.65	0.70	7	0.50	25	0.25	45	0.12	90	
2004	1.09	1.15	0.50	7	0.40	25	0.20	45	0.12	90	
2005	1.10	1.25	0.99	7	0.55	20	0.20	45	0.12	90	
2006	1.03	2.05	0.65	7	0.30	20	0.16	45	0.12	90	
2007	0.44	0.95	0.45	7	0.22	20	0.16	45	0.12	90	
2008	0.87	2.05	0.50	7	0.22	20	0.16	45	0.12	90	
2009	0.86	1.58	0.65	7	0.23	20	0.16	45	0.12	90	
2010	0.86	1.58	0.65	7	0.23	20	0.16	45	0.12	90	
2011	0.86	1.58	0.65	7	0.23	20	0.16	45	0.12	90	
2012	0.86	1.58	0.65	7	0.23	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Northwest Alberta - Conventional - Middle Devonian</b>										
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
2000	1.07	0.95	0.65	7	0.95	12	0.25	40	0.12	90
2001	0.99	1.25	1.05	7	0.40	25	0.30	45	0.12	90
2002	1.13	1.45	1.05	10	0.40	25	0.30	45	0.12	90
2003	0.93	1.25	0.60	7	0.45	20	0.20	45	0.12	90
2004	0.84	0.95	0.70	7	0.55	20	0.20	45	0.12	90
2005	0.80	0.95	0.75	7	0.70	20	0.25	45	0.12	90
2006	0.82	2.45	0.95	7	0.40	20	0.16	45	0.12	90
2007	0.72	1.85	0.95	7	0.40	20	0.16	45	0.12	90
2008	1.07	1.65	0.65	7	0.22	20	0.16	45	0.12	90
2009	1.05	1.75	0.75	7	0.45	20	0.20	45	0.12	90
2010	0.99	1.75	0.75	7	0.45	20	0.20	45	0.12	90
2011	0.94	1.75	0.75	7	0.45	20	0.20	45	0.12	90
2012	0.88	1.75	0.75	7	0.45	20	0.20	45	0.12	90

<b>Resource Grouping - Gas - BC Deep Basin - Conventional - Colorado</b>										
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
2000	1.09	0.65	0.40	7	0.16	20	0.28	45	0.12	90
2001	3.81	1.85	0.60	10	0.30	20	0.16	45	0.12	90
2002	1.89	0.45	0.60	10	0.30	20	0.25	45	0.12	90
2003	4.95	1.95	1.45	10	0.60	25	0.25	45	0.12	90
2004	4.35	0.45	0.40	7	0.45	20	0.25	45	0.12	90
2005	2.87	0.55	0.35	7	0.32	20	0.12	45	0.12	90
2006	0.25	1.45	0.65	7	0.22	20	0.16	45	0.12	90
2007	0.13	0.45	0.30	7	0.22	20	0.16	45	0.12	90
2008	0.56	0.75	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.54	0.65	0.35	7	0.24	20	0.16	45	0.12	90
2010	0.54	0.65	0.35	7	0.24	20	0.16	45	0.12	90
2011	0.54	0.65	0.35	7	0.24	20	0.16	45	0.12	90
2012	0.54	0.65	0.35	7	0.24	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - BC Deep Basin - Conventional - Lower Triassic</b>										
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	0.24								
2003	0.16	0.05	0.30	20	0.22	45	0.16	60	0.12	90
2004	1.17	1.55	0.60	7	0.25	20	0.12	45		
2005	1.14	0.15	0.14	10	0.22	20	0.16	45	0.12	90
2006	0.73	0.75	0.45	8	0.22	20	0.16	45	0.12	90
2007	1.02	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2008	1.17	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2009	1.13	0.70	0.40	8	0.22	20	0.15	45	0.12	90
2010	1.13	0.70	0.40	8	0.22	20	0.15	45	0.12	90
2011	1.13	0.70	0.40	8	0.22	20	0.15	45	0.12	90
2012	1.13	0.70	0.40	8	0.22	20	0.15	45	0.12	90

<b>Resource Grouping - Gas - BC Deep Basin - Tight - Colorado</b>										
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
2000	2.06	1.95	0.50	12	0.22	25	0.16	45	0.12	90
2001	1.31	1.85	0.35	6	0.20	20	0.16	45	0.12	90
2002	1.73	1.45	0.40	6	0.22	20	0.16	45	0.12	90
2003	2.23	1.25	0.50	7	0.28	20	0.12	45		
2004	0.44	1.25	0.50	7	0.15	20	0.10	45		
2005	0.41	1.35	0.65	14	0.15	25	0.10	45		
2006	1.13	1.15	0.50	12	0.22	22	0.16	45	0.12	90
2007	0.99	0.30	0.25	7	0.22	20	0.16	45	0.12	90
2008	0.68	1.35	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.68	1.15	0.30	8	0.15	22	0.10	45		
2010	0.68	1.15	0.30	8	0.15	22	0.10	45		
2011	0.68	1.15	0.30	8	0.15	22	0.10	45		
2012	0.68	1.15	0.30	8	0.15	22	0.10	45		

<b>Resource Grouping - Gas - BC Deep Basin - Tight - Mannville</b>											
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	
2000	0.89	1.25	0.50	7	0.30	20	0.12	45			
2001	2.02	0.65	0.70	7	0.30	20	0.16	45	0.12	90	
2002	0.80	1.95	0.45	7	0.25	20	0.10	40	0.10	90	
2003	1.13	1.25	0.45	7	0.30	20	0.16	45	0.12	90	
2004	1.27	1.80	0.50	7	0.30	20	0.16	35	0.12	90	
2005	1.29	1.80	0.60	7	0.25	20	0.16	45	0.12	90	
2006	1.49	1.95	0.65	7	0.30	20	0.16	45	0.12	90	
2007	1.51	1.95	0.85	7	0.30	20	0.16	45	0.12	90	
2008	2.68	1.95	0.40	7	0.22	20	0.16	45	0.12	90	
2009	2.25	1.95	0.70	7	0.27	20	0.16	45	0.12	90	
2010	2.25	1.95	0.70	7	0.27	20	0.16	45	0.12	90	
2011	2.25	1.95	0.70	7	0.27	20	0.16	45	0.12	90	
2012	2.25	1.95	0.70	7	0.27	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - BC Deep Basin - Tight - Lower Triassic</b>											
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate	
2007	3.00	1.99	0.80	5	0.23	13					
2008	3.00	1.99	0.80	5	0.23	13					
2009	3.00	1.99	0.80	5	0.23	13					
2010	3.00	1.99	0.80	5	0.23	13					
2011	3.00	1.99	0.80	5	0.23	13					
2012	3.00	1.99	0.80	5	0.23	13					

<b>Resource Grouping - Gas - Fort St John - Conventional - Mannville</b>											
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	
2000	0.72	0.85	0.40	6	0.22	20	0.18	45	0.12	90	
2001	0.62	0.60	0.30	7	0.27	20	0.21	45	0.12	90	
2002	0.52	1.05	0.40	7	0.23	20	0.18	45	0.12	90	
2003	0.56	1.00	0.40	8	0.25	20	0.16	45	0.12	90	
2004	0.39	0.65	0.40	7	0.30	20	0.16	45	0.12	90	
2005	0.30	0.50	0.60	7	0.25	17	0.16	45	0.12	90	
2006	0.35	0.95	0.45	7	0.22	20	0.16	45	0.12	90	
2007	0.40	0.95	0.45	7	0.22	20	0.16	45	0.12	90	
2008	0.36	0.95	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.36	0.95	0.40	7	0.25	20	0.16	45	0.12	90	
2010	0.36	0.95	0.40	7	0.25	20	0.16	45	0.12	90	
2011	0.36	0.95	0.40	7	0.25	20	0.16	45	0.12	90	
2012	0.36	0.95	0.40	7	0.25	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Fort St John - Conventional - Triassic</b>											
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	
2000	0.58	0.95	0.40	7	0.20	20	0.14	45	0.12	90	
2001	0.62	0.75	0.35	7	0.20	20	0.14	45	0.12	90	
2002	1.00	1.25	0.40	5	0.27	20	0.16	45	0.12	90	
2003	0.79	1.15	0.65	7	0.25	20	0.16	45	0.12	90	
2004	0.70	0.85	0.45	7	0.25	20	0.16	45	0.12	90	
2005	0.62	0.95	0.42	7	0.27	20	0.16	45	0.12	90	
2006	0.62	0.65	0.50	7	0.22	20	0.16	45	0.12	90	
2007	0.89	0.75	0.50	7	0.22	20	0.16	45	0.12	90	
2008	1.20	0.65	0.40	7	0.22	20	0.16	45	0.12	90	
2009	0.99	0.65	0.45	7	0.25	20	0.16	45	0.12	90	
2010	0.99	0.65	0.45	7	0.25	20	0.16	45	0.12	90	
2011	0.99	0.65	0.45	7	0.25	20	0.16	45	0.12	90	
2012	0.99	0.65	0.45	7	0.25	20	0.16	45	0.12	90	

<b>Resource Grouping - Gas - Fort St John - Conventional - Permian, Mississippian</b>										
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
2000	1.64	0.10	0.50	7	0.22	20	0.30	45	0.12	90
2001	0.70	0.75	0.60	7	0.70	20	0.16	45	0.12	90
2002	1.03	0.10	0.50	10	0.32	20	0.12	45		
2003	2.16	0.15	0.65	7	0.35	20	0.16	45	0.12	90
2004	0.78	0.05	0.45	10	0.30	20	0.16	45	0.12	90
2005	0.59	0.05	0.25	15	0.20	20	0.16	45	0.12	90
2006	0.71	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2007	2.10	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2008	2.42	0.85	0.40	7	0.22	20	0.16	45	0.12	90
2009	2.25	0.75	0.40	7	0.20	20	0.16	45	0.12	90
2010	2.25	0.75	0.40	7	0.20	20	0.16	45	0.12	90
2011	2.25	0.75	0.40	7	0.20	20	0.16	45	0.12	90
2012	2.25	0.75	0.40	7	0.20	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Fort St John - Conventional - Upper Devonian, Middle Devonian</b>										
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
2000	40.50	0.01	1.60	22	0.80	38	0.08	60	0.08	500
2001	19.32	0.30	0.90	7	0.60	25	0.40	45	0.12	90
2002	9.20	0.65	0.60	7	0.80	15	0.40	45	0.12	90
2003	6.06	0.65	0.40	7	0.29	20	0.16	45	0.12	90
2004	0.93	0.95	0.35	7	0.12	20				
2005	2.62	0.25	0.55	7	0.40	20	0.20	45	0.12	90
2006	0.74	0.95	0.50	7	0.30	20	0.16	45	0.12	90
2007	1.62	0.05	1.05	8	0.22	25	0.16	45	0.12	90
2008	2.07	0.45	0.25	24						
2009	1.80	0.50	0.35	8	0.25	20	0.16	45	0.12	90
2010	1.80	0.50	0.35	8	0.25	20	0.16	45	0.12	90
2011	1.80	0.50	0.35	8	0.25	20	0.16	45	0.12	90
2012	1.80	0.50	0.35	8	0.25	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Fort St John - Tight - Triassic</b>										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2007	3.00	0.64	0.14	10						
2008	3.00	0.64	0.14	10						
2009	3.00	0.64	0.14	10						
2010	3.00	0.64	0.14	10						
2011	3.00	0.64	0.14	10						
2012	3.00	0.64	0.14	10						

<b>Resource Grouping - Gas - Northeast BC - Conventional - Lower Mannville</b>										
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
2000	0.96	0.10	0.30	10	0.16	20	0.17	45	0.12	90
2001	1.13	0.65	0.35	7	0.22	20	0.19	45	0.12	90
2002	1.01	0.45	0.20	7	0.22	20	0.16	45	0.12	90
2003	0.51	1.35	0.40	7	0.22	20	0.05	45		
2004	0.16	0.55	0.05	7	0.05	20	0.05	45	0.05	90
2005	0.41	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2006	0.19	0.45	0.16	7	0.12	20	0.12	45		
2007	0.19	0.45	0.16	7	0.12	20	0.12	45		
2008	0.37	0.95	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.36	0.60	0.30	7	0.20	20	0.12	45	0.05	90
2010	0.36	0.60	0.30	7	0.20	20	0.12	45	0.05	90
2011	0.36	0.60	0.30	7	0.20	20	0.12	45	0.05	90
2012	0.36	0.60	0.30	7	0.20	20	0.12	45	0.05	90

<b>Resource Grouping - Gas - Northeast BC - Conventional - Permian, Mississippian</b>										
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
2000	0.24	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2001	1.38	0.05	0.45	30	0.40	55	0.25	75	0.12	120
2002	1.90	0.25	0.24	7	0.30	22	0.32	45	0.12	90
2003	0.81	0.10	0.43	7	0.50	25	0.16	45	0.12	90
2004	1.63	0.50	0.65	15	0.22	25	0.16	45	0.12	90
2005	0.89	0.55	0.27	10	0.10	30				
2006	0.48	1.35	0.60	7	0.30	20	0.16	45	0.12	90
2007	0.22	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2008	0.31	0.95	0.65	7	0.22	20	0.16	45	0.12	90
2009	0.32	0.75	0.45	7	0.22	20	0.16	45	0.12	90
2010	0.32	0.75	0.45	7	0.22	20	0.16	45	0.12	90
2011	0.32	0.75	0.45	7	0.22	20	0.16	45	0.12	90
2012	0.32	0.75	0.45	7	0.22	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Northeast BC - Conventional - Upper Devonian, Middle Devonian</b>										
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
2000	2.62	1.05	0.25	7	0.38	20	0.22	45	0.12	90
2001	2.91	0.05	0.20	30	0.18	45	0.16	60	0.12	90
2002	2.50	0.65	0.55	7	0.47	20	0.35	45	0.12	90
2003	1.97	1.25	0.45	7	0.30	20	0.16	45	0.12	90
2004	2.19	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2005	1.42	0.15	0.35	7	0.12	20	0.12	45		
2006	1.22	0.85	0.60	7	0.22	18	0.16	45	0.12	90
2007	0.81	0.20	0.65	7	0.30	20	0.16	45	0.12	90
2008	1.16	3.05	0.65	7	0.30	20	0.16	45	0.12	90
2009	1.13	0.85	0.65	7	0.30	20	0.16	45	0.12	90
2010	1.13	0.85	0.65	7	0.30	20	0.16	45	0.12	90
2011	1.13	0.85	0.65	7	0.30	20	0.16	45	0.12	90
2012	1.13	0.85	0.65	7	0.30	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Northeast BC - Tight - Upper Devonian</b>										
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
2000	1.18	0.95	0.50	7	0.25	20	0.18	45	0.12	90
2001	0.88	0.95	0.50	7	0.20	20	0.16	45	0.12	90
2002	1.44	1.35	0.50	7	0.25	20	0.16	45	0.12	90
2003	1.29	1.35	0.40	7	0.33	20	0.16	45	0.12	90
2004	1.20	1.35	0.50	7	0.28	20	0.16	45	0.12	90
2005	1.27	1.55	0.50	7	0.25	20	0.16	45	0.12	90
2006	0.96	1.65	0.65	6	0.22	20	0.16	45	0.12	90
2007	1.40	1.95	0.65	6	0.25	20	0.16	45	0.12	90
2008	1.26	1.65	0.65	7	0.22	20	0.16	45	0.12	90
2009	1.26	1.65	0.65	7	0.25	20	0.16	45	0.12	90
2010	1.26	1.65	0.65	7	0.25	20	0.16	45	0.12	90
2011	1.26	1.65	0.65	7	0.25	20	0.16	45	0.12	90
2012	1.26	1.65	0.65	7	0.25	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - Northeast BC - Shale - Middle Devonian</b>										
Connection Year	Initial Production per Connection MMcf/d	1st Decline Rate	2nd Decline Rate	Months to 2nd Decline Rate	3rd Decline Rate	Months to 3rd Decline Rate	4th Decline Rate	Months to 4th Decline Rate	5th Decline Rate	Months to 5th Decline Rate
2007	5.00	1.16	0.27	13	0.22	25	0.06	37		
2008	5.00	1.16	0.27	13	0.22	25	0.06	37		
2009	5.00	1.16	0.27	13	0.22	25	0.06	37		
2010	5.00	1.16	0.27	13	0.22	25	0.06	37		
2011	5.00	1.16	0.27	13	0.22	25	0.06	37		
2012	5.00	1.16	0.27	13	0.22	25	0.06	37		

<b>Resource Grouping - Gas - BC Foothills - Conventional - Colorado, Mannville</b>										
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	0.05	0.40	20	0.22	35	0.16	60	0.12	90
2003	1.38	0.35	0.55	15	0.22	25	0.16	45	0.12	90
2004	1.92	0.65	0.40	15	0.37	25	0.16	45	0.12	90
2005	1.08	0.65	0.60	7	0.25	20	0.16	45	0.12	90
2006	0.76	0.65	0.40	9	0.22	25	0.16	45	0.12	90
2007	1.00	0.65	0.50	7	0.25	20	0.16	45	0.12	90
2008	1.22	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2009	1.17	0.65	0.45	8	0.25	25	0.16	45	0.12	90
2010	1.17	0.65	0.45	8	0.25	25	0.16	45	0.12	90
2011	1.17	0.65	0.45	8	0.25	25	0.16	45	0.12	90
2012	1.17	0.65	0.45	8	0.25	25	0.16	45	0.12	90

<b>Resource Grouping - Gas - BC Foothills - Conventional - Triassic, Permian, Mississippian</b>										
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
2000	10.23	0.20	0.40	10	0.39	20	0.28	45	0.12	90
2001	6.47	0.65	0.05	7	0.22	35	0.18	50	0.12	90
2002	1.81	0.05	0.35	15	0.30	25	0.18	45	0.12	90
2003	5.40	0.10	0.40	15	0.10	35	0.10	45	0.10	90
2004	4.10	0.30	0.40	25	0.22	35	0.16	50	0.12	90
2005	3.25	0.35	0.40	7	0.22	20	0.16	45	0.12	90
2006	2.91	0.25	0.15	10	0.05	20	0.16	500	0.12	90
2007	1.72	0.55	0.40	7	0.22	25	0.16	45	0.12	90
2008	2.82	0.65	0.40	7	0.22	20	0.16	45	0.12	90
2009	2.70	0.45	0.35	7	0.22	20	0.16	45	0.10	90
2010	2.70	0.45	0.35	7	0.22	20	0.16	45	0.10	90
2011	2.70	0.45	0.35	7	0.22	20	0.16	45	0.10	90
2012	2.70	0.45	0.35	7	0.22	20	0.16	45	0.10	90

<b>Resource Grouping - Gas - Southwest Saskatchewan - Upper Colorado</b>										
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
2000	0.06	0.65	0.28	7	0.16	20	0.14	45	0.12	90
2001	0.06	0.68	0.30	7	0.22	20	0.15	45	0.12	90
2002	0.08	0.65	0.26	7	0.20	20	0.22	45	0.12	90
2003	0.10	0.55	0.32	7	0.22	20	0.20	45	0.12	90
2004	0.08	0.80	0.25	7	0.22	20	0.16	45	0.12	90
2005	0.11	0.75	0.45	7	0.27	20	0.16	45	0.12	90
2006	0.11	0.95	0.45	7	0.30	20	0.16	45	0.12	90
2007	0.09	0.95	0.45	7	0.22	20	0.16	45	0.12	90
2008	0.08	0.95	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.08	0.95	0.45	7	0.25	20	0.16	45	0.12	90
2010	0.08	0.95	0.45	7	0.25	20	0.16	45	0.12	90
2011	0.08	0.95	0.45	7	0.25	20	0.16	45	0.12	90
2012	0.08	0.95	0.45	7	0.25	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - West Saskatchewan - Colorado</b>										
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
2000	0.16	0.65	0.33	7	0.22	20	0.16	45	0.12	90
2001	0.15	0.75	0.65	7	0.45	35	0.25	60	0.12	90
2002	0.17	0.65	0.50	7	0.40	20	0.35	45	0.12	90
2003	0.10	0.15	0.55	7	0.22	20	0.16	45	0.12	90
2004	0.08	0.15	0.55	7	0.22	40	0.16	55	0.12	90
2005	0.17	0.80	0.45	8	0.40	20	0.16	45	0.12	90
2006	0.18	0.80	0.65	8	0.30	20	0.16	45	0.12	90
2007	0.22	0.95	0.55	8	0.22	20	0.16	45	0.12	90
2008	0.08	0.85	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.08	0.85	0.50	8	0.25	20	0.16	45	0.12	90
2010	0.08	0.85	0.50	8	0.25	20	0.16	45	0.12	90
2011	0.08	0.85	0.50	8	0.25	20	0.16	45	0.12	90
2012	0.08	0.85	0.50	8	0.25	20	0.16	45	0.12	90

<b>Resource Grouping - Gas - West Saskatchewan - Middle Mannville, Lower Mannville, Mississippian</b>										
<b>Connection Year</b>	<b>Initial Production per Connection MMcf/d</b>	<b>1st Decline Rate</b>	<b>2nd Decline Rate</b>	<b>Months to 2nd Decline Rate</b>	<b>3rd Decline Rate</b>	<b>Months to 3rd Decline Rate</b>	<b>4th Decline Rate</b>	<b>Months to 4th Decline Rate</b>	<b>5th Decline Rate</b>	<b>Months to 5th Decline Rate</b>
2000	0.47	0.65	0.40	7	0.30	20	0.33	45	0.12	90
2001	0.40	0.85	0.60	7	0.35	20	0.40	45	0.12	65
2002	0.35	0.60	0.35	7	0.50	20	0.23	40	0.12	90
2003	0.33	0.95	0.65	7	0.40	20	0.20	45	0.12	90
2004	0.34	0.75	0.65	7	0.55	20	0.20	45	0.12	90
2005	0.28	0.95	0.60	7	0.45	23	0.20	40	0.12	90
2006	0.22	0.85	0.50	8	0.30	20	0.16	45	0.12	90
2007	0.25	0.85	0.50	8	0.30	20	0.16	45	0.12	90
2008	0.19	0.85	0.40	7	0.22	20	0.16	45	0.12	90
2009	0.19	0.85	0.50	8	0.30	20	0.20	40	0.12	90
2010	0.19	0.85	0.50	8	0.30	20	0.20	40	0.12	90
2011	0.19	0.85	0.50	8	0.30	20	0.20	40	0.12	90
2012	0.19	0.85	0.50	8	0.30	20	0.20	40	0.12	90

# APPENDIX B

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

Year	00 - Alberta CBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Northern Alberta Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills	08 - Keylab Deep Basin	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)	16 - BC Foothills	17 - Southwest Saskatchewan	18 - West Saskatchewan	19 - East Saskatchewan	
2000	527	12,903	2,927	405	4,618	5,531	6,913	2,952	10,449	3,189	2,211	2,484	782	4,803	5,469	0	836	1,947	362	0	
2001	1,120	14,006	2,563	821	3,224	4,004	5,888	6,796	2,336	13,108	4,133	2,475	2,923	2,033	5,713	7,093	0	1,608	2,260	282	0
2002	2,056	9,388	1,930	564	4,603	3,425	5,479	5,952	1,387	11,478	12	1,792	2,942	1,285	4,903	4,431	0	1,575	3,612	71	0
2003	2,443	16,985	2,918	448	5,283	5,003	6,652	5,984	2,228	14,210	1,432	1,861	2,059	3,737	4,370	7,531	0	2,060	4,156	580	0
2004	5,394	15,795	2,012	567	4,875	6,007	7,659	6,796	2,159	19,256	1,385	2,499	2,375	4,243	6,086	7,045	0	2,249	3,888	500	1
2005	10,846	13,904	3,142	445	6,623	9,595	9,236	5,196	2,448	21,955	1,308	2,869	1,687	7,295	6,702	6,672	0	2,605	4,063	500	3
2006	10,477	12,144	1,996	611	8,346	6,745	9,913	5,982	2,820	23,230	1,410	3,398	1,413	7,804	7,121	5,703	0	2,979	2,979	348	0
2007	10,490	10,441	1,365	486	4,328	3,689	6,462	4,232	2,512	15,095	1,083	1,852	491	2,745	4,493	1,569	0	2,237	6,246	634	16
2008	5,387	7,954	1,585	179	2,433	4,060	7,737	4,308	3,109	14,567	706	2,490	602	4,386	6,906	1,417	405	1,229	7,317	1,988	0

**Historical Fraction of Total Gas-Intent Drill Days by Area**

DrYr	00 - Alberta CBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Northern Alberta Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills	08 - Keylab Deep Basin	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)	16 - BC Foothills	17 - Southwest Saskatchewan	18 - West Saskatchewan	19 - East Saskatchewan
2000	0.0073	0.1789	0.0410	0.0056	0.0386	0.0640	0.0767	0.0959	0.0409	0.1449	0.0442	0.0307	0.0344	0.0108	0.0666	0.0758	0.0000	0.0116	0.0270	0.0050
2001	0.0136	0.1700	0.0311	0.0100	0.0391	0.0486	0.0715	0.0825	0.0285	0.1591	0.0502	0.0300	0.0355	0.0247	0.0693	0.0861	0.0000	0.0195	0.0274	0.0034
2002	0.0307	0.1404	0.0288	0.0084	0.0688	0.0512	0.0819	0.0890	0.0207	0.1716	0.0002	0.0268	0.0440	0.0192	0.0733	0.0662	0.0000	0.0236	0.0540	0.0011
2003	0.0272	0.1889	0.0324	0.0050	0.0587	0.0556	0.0740	0.0665	0.0248	0.1580	0.0159	0.0207	0.0229	0.015	0.0486	0.0837	0.0000	0.0229	0.0462	0.0064
2004	0.0535	0.1567	0.0200	0.0056	0.0484	0.0596	0.0744	0.0724	0.0214	0.1910	0.0137	0.0248	0.0236	0.0421	0.0664	0.0699	0.0000	0.0223	0.0386	0.0050
2005	0.0926	0.1187	0.0268	0.0038	0.0566	0.0819	0.0789	0.0444	0.0209	0.1875	0.0112	0.0245	0.0144	0.0623	0.0572	0.0570	0.0000	0.0223	0.0347	0.0043
2006	0.0987	0.1052	0.0173	0.0057	0.0723	0.0584	0.0859	0.0518	0.0244	0.2012	0.0122	0.0294	0.0122	0.0676	0.0617	0.0494	0.0000	0.0258	0.0258	0.0030
2007	0.1304	0.1298	0.0170	0.0060	0.0538	0.0458	0.0803	0.0526	0.0312	0.1876	0.0135	0.0230	0.0061	0.0341	0.0558	0.0195	0.0000	0.0278	0.0776	0.0079
2008	0.0684	0.1010	0.0201	0.0023	0.0309	0.0515	0.0982	0.0547	0.0395	0.1849	0.0090	0.0316	0.0076	0.0557	0.0877	0.0180	0.0051	0.0156	0.0929	0.0252

**Projected Fraction of Total Gas-Intent Drill Days by Area - Mid-Price Scenario**

DrYr	00 - Alberta CBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Northern Alberta Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills	08 - Keylab Deep Basin	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)	16 - BC Foothills	17 - Southwest Saskatchewan	18 - West Saskatchewan	19 - East Saskatchewan
2009	2,163	1,324	752	85	451	1,966	5,470	3,804	4,245	6,200	335	1,181	286	2,230	5,070	3,116	900	1,141	2,279	888
2010	2,172	2,532	664	75	1,019	1,741	5,041	3,565	3,241	5,637	296	1,043	252	3,261	7,039	2,099	2,100	1,320	1,998	565
2011	2,271	2,952	660	74	1,012	1,729	5,019	3,552	2,964	6,431	294	1,036	251	3,647	7,676	2,157	2,240	1,470	1,808	491
2012	2,403	3,298	657	74	1,009	1,723	5,008	3,546	3,064	6,876	293	1,032	250	4,257	8,105	2,150	2,613	1,864	1,801	490

**Projected Fraction of Total Gas-Intent Drill Days by Area - Mid-Price Scenario**

DrYr	00 - Alberta CBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Northern Alberta Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills	08 - Keylab Deep Basin	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)	16 - BC Foothills	17 - Southwest Saskatchewan	18 - West Saskatchewan	19 - East Saskatchewan
2009	0.0514	0.0315	0.0179	0.0020	0.0107	0.0467	0.1300	0.0904	0.1009	0.1473	0.0080	0.0281	0.0068	0.0530	0.1205	0.0313	0.0214	0.0271	0.0542	0.0211
2010	0.0476	0.0554	0.0145	0.0016	0.0223	0.0381	0.1104	0.0781	0.0710	0.1235	0.0065	0.0228	0.0055	0.0714	0.1542	0.0460	0.0446	0.0460	0.0438	0.0124
2011	0.0476	0.0618	0.0138	0.0016	0.0212	0.0362	0.1051	0.0744	0.0621	0.1347	0.0062	0.0217	0.0053	0.0764	0.1608	0.0452	0.0469	0.0469	0.0308	0.0103
2012	0.0476	0.0653	0.0130	0.0015	0.0200	0.0341	0.0991	0.0702	0.0607	0.1361	0.0058	0.0204	0.0049	0.0843	0.1605	0.0426	0.0517	0.0517	0.0369	0.0097

### Projected Gas-Intent Drill Days by Area - High-Price Scenario

DyYr	00 - Alberta QBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Southern Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills	08 - Kryobob	09 - Alberta Deep Basin	10 - Northeast Alberta	11 - Peace River	12 - Northwest Alberta	13 - BC Basin	14 - Fort St. John	15 - Northeast BC (excl Shale)	16 - BC Foothills	17 - Southwest Saskat- chewan	18 - West Saskat- chewan	19 - East Saskatchewan	
2009	2,163	1,324	752	85	451	1,966	5,470	3,804	4,245	6,200	335	1,181	286	2,230	5,070	900	1,141	2,279	888	0	
2010	4,101	3,577	793	89	1,216	2,120	5,958	5,114	4,494	6,819	353	1,245	301	4,701	8,991	2,371	2,550	1,556	3,387	943	0
2011	4,930	4,279	821	93	1,259	2,292	6,205	5,190	4,380	7,911	365	1,289	312	5,255	9,674	2,636	3,500	1,886	2,938	798	0
2012	5,416	4,544	826	93	1,267	2,405	6,231	5,205	4,395	9,005	368	1,297	314	6,145	9,666	2,611	4,400	2,264	2,587	703	0

### Projected Fraction of Total Gas-Intent Drill Days by Area - High-Price Scenario

DyYr	00 - Alberta QBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Southern Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills	08 - Kryobob	09 - Alberta Deep Basin	10 - Northeast Alberta	11 - Peace River	12 - Northwest Alberta	13 - BC Basin	14 - Fort St. John	15 - Northeast BC (excl Shale)	16 - BC Foothills	17 - Southwest Saskat- chewan	18 - West Saskat- chewan	19 - East Saskatchewan	
2009	0.0514	0.0315	0.0179	0.0020	0.0107	0.0467	0.1300	0.0904	0.1009	0.1473	0.0080	0.0281	0.0068	0.0530	0.1205	0.0313	0.0214	0.0271	0.0542	0.0211	0.0000
2010	0.0676	0.0590	0.0131	0.0015	0.0200	0.0349	0.0982	0.0843	0.0741	0.1124	0.0058	0.0205	0.0050	0.0775	0.1482	0.0391	0.0420	0.0256	0.0558	0.0155	0.0000
2011	0.0747	0.0648	0.0124	0.0014	0.0191	0.0347	0.0940	0.0786	0.0663	0.1198	0.0055	0.0195	0.0047	0.0796	0.1465	0.0399	0.0530	0.0286	0.0445	0.0121	0.0000
2012	0.0777	0.0652	0.0118	0.0013	0.0182	0.0345	0.0893	0.0746	0.0630	0.1291	0.0053	0.0186	0.0045	0.0881	0.1386	0.0374	0.0631	0.0325	0.0371	0.0101	0.0000

### Projected Gas-Intent Drill Days by Area - Low-Price Scenario

DyYr	00 - Alberta QBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Southern Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills	08 - Kryobob	09 - Alberta Deep Basin	10 - Northeast Alberta	11 - Peace River	12 - Northwest Alberta	13 - BC Basin	14 - Fort St. John	15 - Northeast BC (excl Shale)	16 - BC Foothills	17 - Southwest Saskat- chewan	18 - West Saskat- chewan	19 - East Saskatchewan	
2009	2,163	1,324	752	85	451	1,966	5,470	3,804	4,245	6,200	335	1,181	286	2,230	5,070	900	1,141	2,279	888	0	
2010	2,407	524	264	30	405	716	3,088	2,179	2,337	1,960	117	414	100	1,711	4,896	906	1,950	2,86	1,003	295	0
2011	2,435	1,000	271	31	415	733	3,120	2,135	2,081	2,856	120	425	103	2,048	5,647	1,022	2,100	486	779	212	0
2012	1,948	1,358	271	31	415	733	3,121	2,236	2,186	3,324	121	425	103	2,733	5,604	1,122	2,338	973	806	219	0

### Projected Fraction of Total Gas-Intent Drill Days by Area - Low-Price Scenario

DyYr	00 - Alberta QBM	01 - Southern Alberta	02 - Southwest Alberta	03 - Southern Foothills	04 - Eastern Alberta	05 - Central Alberta	06 - West Central Alberta	07 - Central Foothills	08 - Kryobob	09 - Alberta Deep Basin	10 - Northeast Alberta	11 - Peace River	12 - Northwest Alberta	13 - BC Basin	14 - Fort St. John	15 - Northeast BC (excl Shale)	16 - BC Foothills	17 - Southwest Saskat- chewan	18 - West Saskat- chewan	19 - East Saskatchewan	
2009	0.0514	0.0315	0.0179	0.0020	0.0107	0.0467	0.1300	0.0904	0.1009	0.1473	0.0080	0.0281	0.0068	0.0530	0.1205	0.0313	0.0214	0.0271	0.0542	0.0211	0.0000
2010	0.0941	0.0205	0.0012	0.00158	0.0280	0.1207	0.0852	0.0913	0.0766	0.0046	0.0162	0.0039	0.0669	0.1914	0.0354	0.0762	0.0112	0.0392	0.0115	0.0000	
2011	0.0869	0.0357	0.0097	0.0011	0.0148	0.0262	0.1114	0.0762	0.0743	0.1019	0.0043	0.0152	0.0037	0.0731	0.2016	0.0365	0.0749	0.0174	0.0278	0.0076	0.0000
2012	0.0648	0.0452	0.0090	0.0010	0.0138	0.0244	0.1038	0.0744	0.0727	0.1105	0.0040	0.0141	0.0034	0.0909	0.1864	0.0373	0.0777	0.0324	0.0268	0.0073	0.0000

## B2 Detailed Gas-Intent Drilling and Gas Connection projections by Scenario

Mid-Price Scenario		Projected Annual Number of Wells Targeted to Resource Grouping			Connection Ratio	Projected Annual Number of Connections for Resource Grouping		
Area name		2010	2011	2012		2010	2011	2012
Gas Connections								
00 - Alberta CBM		612	640	677	1.214	744	777	823
01 - Southern Alberta	Tight Portion	999	1,189	1,345	1.125	1,124	1,325	1,490
02 - Southwest Alberta	Tight Portion	647	839	997	1.059	685	889	1,055
03 - Southern Foothills	Tight Portion	135	134	134	1.062	144	143	142
04 - Eastern Alberta		14	14	14	0.959	14	13	13
05 - Central Alberta		2	2	2	1.059	2	2	2
06 - West Central Alberta	Tight Portion	248	246	245	1.037	257	255	255
07 - Central Foothills	Tight Portion	360	358	357	1.113	401	399	397
08 - Kaybob	Tight Portion	47	47	47	1.112	53	52	52
09 - Alberta Deep Basin	Tight Portion	462	460	460	0.997	460	459	459
10 - Northeast Alberta		68	68	67	1.040	71	70	70
11 - Peace River		63	62	62	1.280	80	80	80
12 - Northwest Alberta		16	16	16	1.495	24	24	24
13 - BC Deep Basin	Montney Portion	229	210	217	0.948	218	200	206
14 - Fort St. John	Other Tight Portion	36	35	35	0.913	32	32	32
15 - Northeast BC	Montney Portion	274	311	332	1.300	356	401	426
16 - BC Foothills		228	265	286	1.317	300	345	371
17 - Southwest Saskatchewan	Horn River Shale Portion	64	63	63	0.681	43	43	43
18 - West Saskatchewan	Tight Portion	94	93	93	1.052	99	98	98
19 - East Saskatchewan		42	42	42	0.837	35	35	35
Subtotal: Gas - Conventional (non-tight)		106	123	148	1.067	113	131	156
Subtotal: Gas - Tight		35	50	70	1.000	35	50	70
Subtotal: Gas - CBM		52	54	59	1.122	58	60	66
Subtotal: Gas - Shale		476	509	528	0.974	464	497	515
Gas Connections - CBM Breakdown		175	200	220	1.000	175	200	220
AB - Main HSC		210	223	238	0.996	209	223	237
AB - Mannville CBM		70	80	95	1.000	70	80	95
AB - Other CBM		119	122	122	0.948	113	116	115
Subtotal: Gas - CBM		48	52	60	1.112	54	57	64
Total: All Gas		342	309	308	0.999	341	309	308
		341	309	308	0.999	341	308	307
		53	46	46	0.819	43	37	37
		0	0	0	N/A	0	0	0

High-Price Scenario							
Area name	Projected Annual Number of Wells Targeted to Resource Grouping			Connection Ratio	Projected Annual Number of Connections for Resource Grouping		
	2010	2011	2012		2010	2011	2012
Gas Connections							
00 - Alberta CBM	909	1,018	1,160	1.203	1,093	1,209	1,388
01 - Southern Alberta	1,180	1,434	1,531	1.114	1,315	1,586	1,688
Tight Portion	836	1,078	1,172	1.059	885	1,141	1,241
02 - Southwest Alberta	137	142	142	1.059	145	150	151
Tight Portion	16	16	17	0.949	15	16	16
03 - Southern Foothills	2	2	2	1.059	2	3	3
04 - Eastern Alberta	242	251	252	1.037	251	260	262
05 - Central Alberta	359	381	392	1.115	400	425	440
Tight Portion	47	49	49	1.115	52	54	55
06 - West Central Alberta	481	497	499	1.001	481	497	500
Tight Portion	81	84	84	1.041	84	87	88
07 - Central Foothills	90	91	92	1.300	117	118	119
Tight Portion	25	25	25	1.496	37	37	37
08 - Kaybob	306	299	300	0.952	291	285	286
Tight Portion	42	44	44	0.913	39	40	40
09 - Alberta Deep Basin	330	382	433	1.302	430	494	561
Tight Portion	277	327	378	1.317	365	426	492
10 - Northeast Alberta	62	64	65	0.681	42	44	44
11 - Peace River	102	105	106	1.063	108	112	112
12 - Northwest Alberta	42	43	43	0.837	35	36	36
13 - BC Deep Basin	156	181	220	1.052	164	190	231
Montney Portion	75	90	115	1.000	75	90	115
Other Tight Portion	60	67	82	1.122	67	75	91
14 - Fort St. John	535	592	604	0.978	523	579	591
Montney Portion	245	270	285	1.000	245	270	285
15 - Northeast BC	239	297	330	0.994	238	295	328
Horn River Shale Portion	85	125	160	1.000	85	125	160
Tight Portion	134	149	148	0.948	127	141	140
16 - BC Foothills	49	57	64	1.099	54	62	68
17 - Southwest Saskatchewan	474	411	362	0.999	474	411	362
Tight Portion	473	410	361	0.999	473	410	361
18 - West Saskatchewan	72	61	54	0.819	59	50	44
19 - East Saskatchewan	0	0	0	N/A	0	0	0
Subtotal: Gas - Conventional (non-tight)	2,463	2,557	2,573		2,580	2,684	2,704
Subtotal: Gas - Tight	2,310	2,609	2,759		2,464	2,788	2,961
Subtotal: Gas - CBM	909	1,018	1,160		1,093	1,209	1,388
Subtotal: Gas - Shale	85	125	160		85	125	160
Gas Connections - CBM Breakdown							
AB - Main HSC	800	850	1,000	1.244	995	1,057	1,244
AB - Mannville CBM	53	87	83	0.903	48	79	75
AB - Other CBM	56	81	77	0.903	50	73	69
Subtotal: Gas - CBM	909	1,018	1,160		1,093	1,209	1,388
Total: All Gas	5,767	6,309	6,652		6,222	6,806	7,213

**Low-Price Scenario**

Area name	Projected Annual Number of Wells Targeted to Resource Grouping			Connection Ratio	Projected Annual Number of Connections for Resource Grouping		
	2010	2011	2012		2010	2011	2012
Gas Connections							
00 - Alberta CBM	557	549	439	1.212	675	664	531
01 - Southern Alberta	147	322	454	1.205	177	363	502
02 - Southwest Alberta	33	204	336	1.059	34	216	356
03 - Southern Foothills	46	47	47	1.059	48	49	49
04 - Eastern Alberta	1	1	1	1.059	1	1	1
05 - Central Alberta	81	83	83	1.037	84	86	86
06 - West Central Alberta	120	123	123	1.116	134	138	138
07 - Central Foothills	16	16	16	1.115	17	18	18
08 - Kaybob	266	268	268	0.990	263	265	266
09 - Alberta Deep Basin	27	28	28	1.041	28	29	29
10 - Northeast Alberta	38	36	40	1.325	50	48	53
11 - Peace River	13	13	13	1.498	19	19	19
12 - Northwest Alberta	159	142	149	0.950	151	135	142
13 - BC Deep Basin	14	14	14	0.913	13	13	13
14 - Fort St. John	92	134	156	1.303	119	171	197
15 - Northeast BC	74	116	137	1.322	98	148	175
16 - BC Foothills	21	21	21	0.681	14	14	14
17 - Southwest Saskatchewan	34	35	35	1.063	36	37	37
18 - West Saskatchewan	14	14	14	0.837	12	12	12
19 - East Saskatchewan	57	71	100	1.049	60	75	104
Montney Portion	30	40	60	1.000	30	40	60
Other Tight Portion	19	22	30	1.130	21	25	34
14 - Fort St. John	271	320	332	0.984	266	315	327
Montney Portion	160	195	195	1.000	160	195	195
15 - Northeast BC	124	142	158	0.995	123	141	157
Horn River Shale Portion	65	75	85	1.000	65	75	85
Tight Portion	51	58	63	0.948	49	55	60
16 - BC Foothills	13	18	28	1.195	15	20	29
17 - Southwest Saskatchewan	140	109	113	0.999	140	109	113
Tight Portion	140	109	113	0.999	140	109	112
18 - West Saskatchewan	22	16	17	0.819	18	13	14
19 - East Saskatchewan	0	0	0	N/A	0	0	0
Subtotal: Gas - Conventional (non-tight)	998	1,006	1,041		1,034	1,044	1,079
Subtotal: Gas - Tight	582	820	1,011		615	872	1,076
Subtotal: Gas - CBM	557	549	439		675	664	531
Subtotal: Gas - Shale	65	75	85		65	75	85
Gas Connections - CBM Breakdown							
AB - Main HSC	505	494	395	1.244	628	614	491
AB - Mannville CBM	24	29	23	0.903	21	26	21
AB - Other CBM	29	27	21	0.903	26	24	19
Subtotal: Gas - CBM	557	549	439		675	664	531
Total: All Gas	2,201	2,450	2,576		2,388	2,655	2,772

# APPENDIX C

## Deliverability Details by Scenario

C.1 - Canadian Gas Deliverability by Area/Resource - Mid-Price Scenario												
Area/Resource	Historical				Projection							
	2008		2009*		2010		2011		2012			
	10 <sup>6</sup> m <sup>3</sup> /d	MMcf/d										
00 - Alberta CBM	21.60	762	22.81	805	20.60	727	17.97	634	16.62	587		
HSC Portion	17.78	628	18.98	670	17.64	623	15.39	543	14.25	503		
Mannville Portion	3.00	106	2.73	96	1.80	63	1.62	57	1.54	54		
Other CBM Portion	0.82	29	1.10	39	1.17	41	0.96	34	0.83	29		
01 - Southern Alberta	47.63	1,681	43.51	1,536	36.64	1,293	32.14	1,135	30.09	1,062		
Tight Portion	27.46	969	24.92	880	20.54	725	17.38	613	15.70	554		
02 - Southwest Alberta	10.87	384	9.66	341	8.45	298	7.21	255	6.44	227		
Tight Portion	2.68	95	2.36	83	2.08	73	1.79	63	1.61	57		
03 - Southern Foothills	3.01	106	2.08	73	1.08	38	0.91	32	0.79	28		
04 - Eastern Alberta	23.91	844	19.86	701	15.52	548	13.71	484	12.53	442		
Tight Portion	0.54	19	0.51	18	0.45	16	0.36	13	0.30	11		
05 - Central Alberta	30.09	1,062	25.21	890	20.56	726	18.20	643	16.74	591		
Tight Portion	2.47	87	2.09	74	1.59	56	1.39	49	1.27	45		
06 - West Central Alberta	50.11	1,769	45.38	1,602	38.54	1,360	34.83	1,229	32.49	1,147		
Tight Portion	13.91	491	12.45	440	9.71	343	8.31	293	7.45	263		
07 - Central Foothills	29.33	1,035	27.61	975	26.40	932	24.18	853	23.00	812		
Tight Portion	1.33	47	1.46	52	1.87	66	1.91	68	2.00	70		
08 - Kaybob	25.84	912	23.55	831	21.73	767	20.37	719	19.71	696		
Tight Portion	6.98	246	6.10	215	4.83	170	4.15	147	3.73	132		
09 - Alberta Deep Basin	62.49	2,206	61.71	2,178	60.84	2,148	54.68	1,930	51.12	1,804		
Tight Portion	49.81	1,758	45.61	1,610	50.73	1,791	45.54	1,608	42.61	1,504		
10 - Northeast Alberta	17.29	610	13.89	490	9.97	352	8.42	297	7.40	261		
11 - Peace River	20.96	740	19.18	677	16.92	597	15.20	537	14.07	497		
12 - Northwest Alberta	15.57	550	12.94	457	10.59	374	9.44	333	8.68	306		
13 - BC Deep Basin	11.64	411	11.30	399	10.27	363	11.06	391	12.51	442		
Montney Portion	0.58	21	1.27	45	2.54	90	3.54	125	4.95	175		
Other Tight Portion	7.82	276	6.63	234	5.47	193	5.39	190	5.48	193		
14 - Fort St. John	29.32	1,035	32.79	1,157	40.80	1,440	48.60	1,716	56.80	2,005		
Montney Portion	3.80	134	9.71	343	21.38	755	29.29	1,034	37.34	1,318		
15 - Northeast BC	19.44	686	16.35	577	18.51	654	21.24	750	24.32	859		
Horn River Shale Portion	0.28	10	1.15	41	6.13	216	9.59	339	13.08	462		
Tight Portion	11.65	411	9.97	352	8.89	314	8.50	300	8.31	293		
16 - BC Foothills	14.80	522	14.41	509	12.04	425	11.35	401	11.32	400		
17 - Southwest Saskatchewan	10.17	359	9.57	338	8.40	297	7.19	254	6.40	226		
Tight Portion	9.60	339	8.93	315	7.71	272	6.52	230	5.75	203		
18 - West Saskatchewan	4.40	155	3.86	136	3.63	128	3.23	114	2.94	104		
19 - East Saskatchewan	1.54	54	1.59	56	1.42	50	1.38	49	1.34	47		
22 - Yukon and Northwest Territories	0.64	23	0.51	18	0.32	11	0.23	8	0.16	6		
<b>Total Conventional (non-tight)</b>	<b>290.11</b>	<b>10,241</b>	<b>261.78</b>	<b>9,241</b>	<b>218.72</b>	<b>7,721</b>	<b>199.89</b>	<b>7,056</b>	<b>189.29</b>	<b>6,682</b>		
<b>Total Tight</b>	<b>138.64</b>	<b>4,894</b>	<b>132.02</b>	<b>4,660</b>	<b>137.78</b>	<b>4,864</b>	<b>134.09</b>	<b>4,733</b>	<b>136.50</b>	<b>4,818</b>		
<b>Total CBM</b>	<b>21.60</b>	<b>762</b>	<b>22.81</b>	<b>805</b>	<b>20.60</b>	<b>727</b>	<b>17.97</b>	<b>634</b>	<b>16.62</b>	<b>587</b>		
<b>Total Shale</b>	<b>0.28</b>	<b>10</b>	<b>1.15</b>	<b>41</b>	<b>6.13</b>	<b>216</b>	<b>9.59</b>	<b>339</b>	<b>13.08</b>	<b>462</b>		
<b>Total WCSB</b>	<b>450.63</b>	<b>15,907</b>	<b>417.76</b>	<b>14,747</b>	<b>383.23</b>	<b>13,528</b>	<b>361.54</b>	<b>12,762</b>	<b>355.49</b>	<b>12,549</b>		
Atlantic Canada	11.85	418	9.49	335	8.93	315	10.13	358	13.08	462		
Other Canada	0.53	19	0.51	18	0.50	18	0.76	27	0.75	26		
<b>Total Canada</b>	<b>463.02</b>	<b>16,345</b>	<b>427.76</b>	<b>15,100</b>	<b>392.65</b>	<b>13,861</b>	<b>372.43</b>	<b>13,147</b>	<b>369.31</b>	<b>13,037</b>		

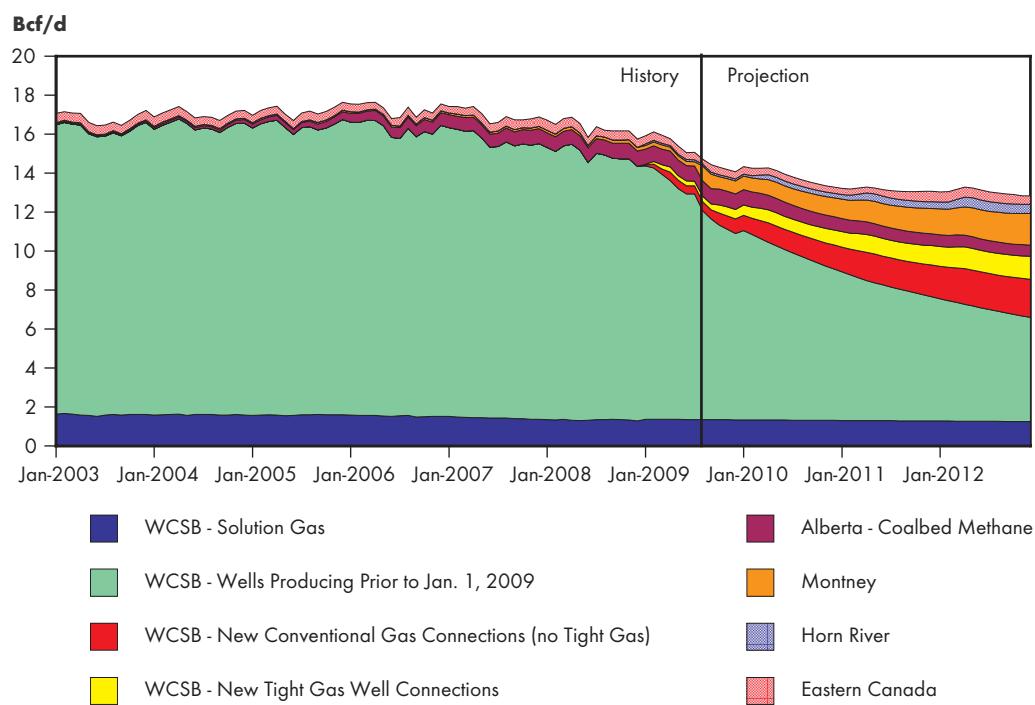
rates are annual averages

\* historical for January - July, projected for August - December

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**FIGURE C1**

**Outlook for Total Canadian Gas Deliverability - Mid-Price Scenario**

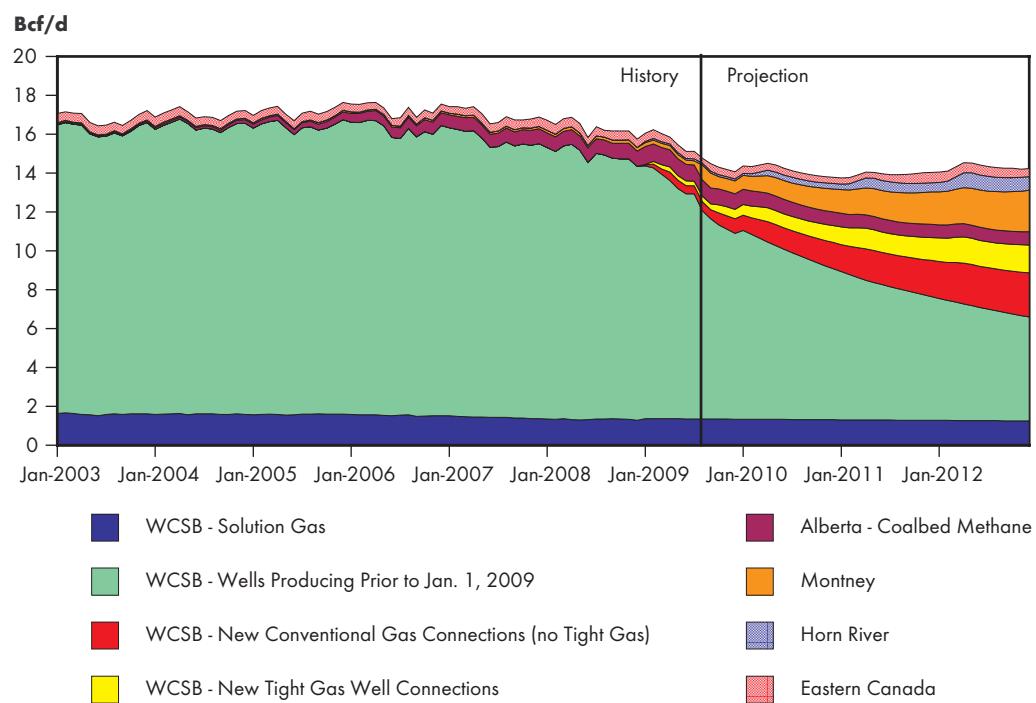


C.2 - Canadian Gas Deliverability by Area/Resource - High-Price Scenario										
Area/Resource	Historical				Projection					
	2008		2009*		2010		2011		2012	
	10 <sup>6</sup> m <sup>3</sup> /d	MMcf/d								
00 - Alberta CBM	21.60	762	22.81	805	20.98	741	19.29	681	19.05	673
HSC Portion	17.78	628	18.98	670	17.89	632	16.14	570	15.56	549
Mannville Portion	3.00	106	2.73	96	1.91	67	2.15	76	2.59	91
Other CBM Portion	0.82	29	1.10	39	1.18	42	1.00	35	0.90	32
01 - Southern Alberta	47.63	1,681	43.51	1,536	36.77	1,298	32.59	1,151	30.80	1,087
Tight Portion	27.46	969	24.92	880	20.69	730	17.82	629	16.35	577
02 - Southwest Alberta	10.87	384	9.66	341	8.46	299	7.26	256	6.52	230
Tight Portion	2.68	95	2.36	83	2.09	74	1.81	64	1.65	58
03 - Southern Foothills	3.01	106	2.08	73	1.08	38	0.92	32	0.81	28
04 - Eastern Alberta	23.91	844	19.86	701	15.51	548	13.70	484	12.54	443
Tight Portion	0.54	19	0.51	18	0.45	16	0.36	13	0.30	11
05 - Central Alberta	30.09	1,062	25.21	890	20.56	726	18.29	646	16.98	599
Tight Portion	2.47	87	2.09	74	1.59	56	1.40	50	1.29	46
06 - West Central Alberta	50.11	1,769	45.38	1,602	38.77	1,369	35.45	1,251	33.44	1,181
Tight Portion	13.91	491	12.45	440	9.78	345	8.51	300	7.75	274
07 - Central Foothills	29.33	1,035	27.61	975	27.42	968	26.58	938	26.41	932
Tight Portion	1.33	47	1.46	52	2.01	71	2.24	79	2.44	86
08 - Kaybob	25.84	912	23.55	831	22.42	791	22.10	780	22.18	783
Tight Portion	6.98	246	6.10	215	4.87	172	4.26	150	3.88	137
09 - Alberta Deep Basin	62.49	2,206	61.71	2,178	61.71	2,178	56.85	2,007	54.57	1,926
Tight Portion	49.81	1,758	45.61	1,610	51.52	1,819	47.52	1,677	45.78	1,616
10 - Northeast Alberta	17.29	610	13.89	490	9.96	352	8.42	297	7.41	262
11 - Peace River	20.96	740	19.18	677	17.01	600	15.44	545	14.44	510
12 - Northwest Alberta	15.57	550	12.94	457	10.59	374	9.44	333	8.69	307
13 - BC Deep Basin	11.64	411	11.30	399	11.48	405	13.75	485	16.58	585
Montney Portion	0.58	21	1.27	45	3.59	127	5.74	203	8.09	286
Other Tight Portion	7.82	276	6.63	234	5.61	198	5.79	204	6.27	221
14 - Fort St. John	29.32	1,035	32.79	1,157	43.23	1,526	54.91	1,938	66.24	2,338
Montney Portion	3.80	134	9.71	343	23.85	842	35.46	1,252	46.42	1,638
15 - Northeast BC	19.44	686	16.35	577	19.60	692	25.18	889	31.65	1,117
Horn River Shale Portion	0.28	10	1.15	41	7.01	248	13.00	459	19.65	694
Tight Portion	11.65	411	9.97	352	9.08	321	9.00	318	9.01	318
16 - BC Foothills	14.80	522	14.41	509	12.08	426	11.54	407	11.70	413
17 - Southwest Saskatchewan	10.17	359	9.57	338	8.49	300	7.42	262	6.66	235
Tight Portion	9.60	339	8.93	315	7.79	275	6.75	238	6.01	212
18 - West Saskatchewan	4.40	155	3.86	136	3.64	129	3.26	115	2.98	105
19 - East Saskatchewan	1.54	54	1.59	56	1.42	50	1.38	49	1.34	47
22 - Yukon and Northwest Territories	0.64	23	0.51	18	0.32	11	0.23	8	0.16	6
<b>Total Conventional (non-tight)</b>	<b>290.11</b>	<b>10,241</b>	<b>261.78</b>	<b>9,241</b>	<b>220.58</b>	<b>7,787</b>	<b>205.05</b>	<b>7,238</b>	<b>197.20</b>	<b>6,961</b>
<b>Total Tight</b>	<b>138.64</b>	<b>4,894</b>	<b>132.02</b>	<b>4,660</b>	<b>142.93</b>	<b>5,045</b>	<b>146.66</b>	<b>5,177</b>	<b>155.26</b>	<b>5,481</b>
<b>Total CBM</b>	<b>21.60</b>	<b>762</b>	<b>22.81</b>	<b>805</b>	<b>20.98</b>	<b>741</b>	<b>19.29</b>	<b>681</b>	<b>19.05</b>	<b>673</b>
<b>Total Shale</b>	<b>0.28</b>	<b>10</b>	<b>1.15</b>	<b>41</b>	<b>7.01</b>	<b>248</b>	<b>13.00</b>	<b>459</b>	<b>19.65</b>	<b>694</b>
<b>Total WCSB</b>	<b>450.63</b>	<b>15,907</b>	<b>417.76</b>	<b>14,747</b>	<b>391.51</b>	<b>13,820</b>	<b>384.00</b>	<b>13,555</b>	<b>391.15</b>	<b>13,808</b>
Atlantic Canada	11.85	418	9.49	335	8.93	315	10.13	358	13.08	462
Other Canada	0.53	19	0.51	18	0.50	18	0.76	27	0.75	26
<b>Total Canada</b>	<b>463.02</b>	<b>16,345</b>	<b>427.76</b>	<b>15,100</b>	<b>400.93</b>	<b>14,153</b>	<b>394.90</b>	<b>13,940</b>	<b>404.98</b>	<b>14,296</b>

rates are annual averages

\* historical for January - July, projected for August - December

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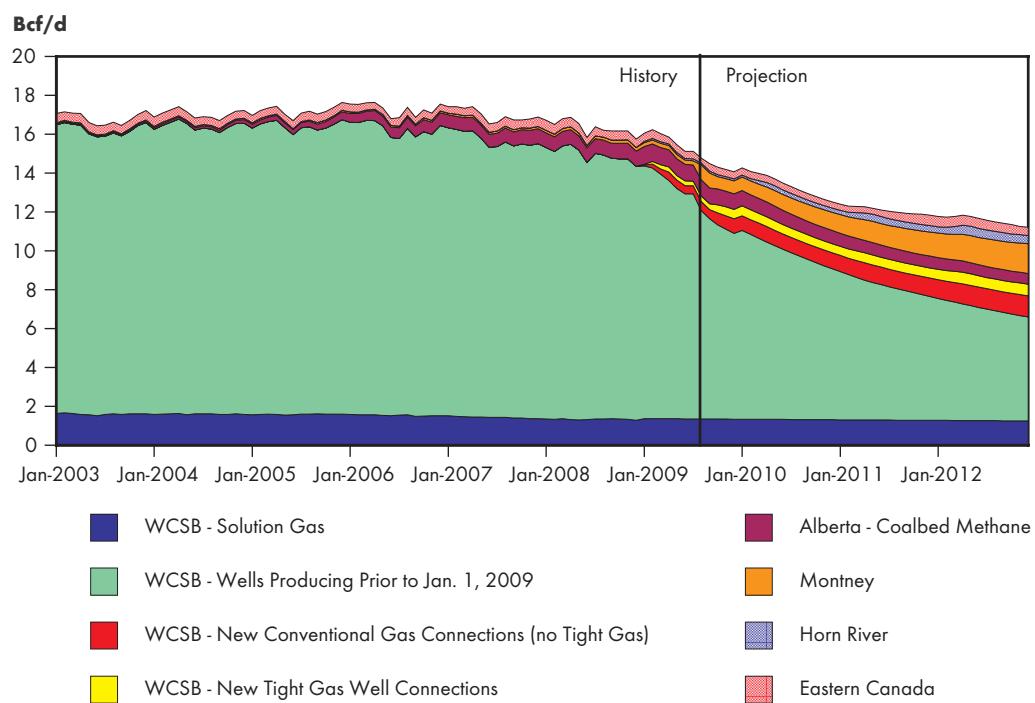
**FIGURE C 2****Outlook for Total Canadian Gas Deliverability - High-Price Scenario**

C.3 - Canadian Gas Deliverability by Area/Resource - Low-Price Scenario										
Area/Resource	Historical				Projection					
	2008		2009*		2010		2011		2012	
	10 <sup>6</sup> m <sup>3</sup> /d	MMcf/d								
00 - Alberta CBM	21.60	762	22.81	805	20.55	725	17.81	629	16.20	572
HSC Portion	17.78	628	18.98	670	17.58	620	15.19	536	13.75	485
Mannville Portion	3.00	106	2.73	96	1.81	64	1.68	59	1.63	58
Other CBM Portion	0.82	29	1.10	39	1.16	41	0.95	34	0.81	29
01 - Southern Alberta	47.63	1,681	43.51	1,536	35.71	1,260	29.27	1,033	25.54	902
Tight Portion	27.46	969	24.92	880	20.05	708	16.03	566	13.71	484
02 - Southwest Alberta	10.87	384	9.66	341	8.22	290	6.68	236	5.72	202
Tight Portion	2.68	95	2.36	83	2.02	71	1.65	58	1.43	50
03 - Southern Foothills	3.01	106	2.08	73	1.07	38	0.88	31	0.76	27
04 - Eastern Alberta	23.91	844	19.86	701	15.28	539	13.11	463	11.73	414
Tight Portion	0.54	19	0.51	18	0.45	16	0.36	13	0.30	11
05 - Central Alberta	30.09	1,062	25.21	890	20.02	707	16.91	597	14.98	529
Tight Portion	2.47	87	2.09	74	1.54	54	1.26	45	1.09	38
06 - West Central Alberta	50.11	1,769	45.38	1,602	37.72	1,331	32.89	1,161	29.83	1,053
Tight Portion	13.91	491	12.45	440	9.47	334	7.74	273	6.66	235
07 - Central Foothills	29.33	1,035	27.61	975	25.56	902	22.17	783	20.26	715
Tight Portion	1.33	47	1.46	52	1.76	62	1.65	58	1.62	57
08 - Kaybob	25.84	912	23.55	831	21.15	747	19.05	673	17.89	632
Tight Portion	6.98	246	6.10	215	4.69	166	3.86	136	3.33	117
09 - Alberta Deep Basin	62.49	2,206	61.71	2,178	58.10	2,051	48.54	1,714	43.11	1,522
Tight Portion	49.81	1,758	45.61	1,610	48.27	1,704	40.00	1,412	35.40	1,250
10 - Northeast Alberta	17.29	610	13.89	490	9.86	348	8.22	290	7.14	252
11 - Peace River	20.96	740	19.18	677	16.40	579	14.01	494	12.48	440
12 - Northwest Alberta	15.57	550	12.94	457	10.46	369	9.21	325	8.40	296
13 - BC Deep Basin	11.64	411	11.30	399	9.39	331	9.15	323	9.98	352
Montney Portion	0.58	21	1.27	45	2.41	85	3.14	111	4.30	152
Other Tight Portion	7.82	276	6.63	234	4.83	170	4.15	147	3.98	140
14 - Fort St. John	29.32	1,035	32.79	1,157	38.58	1,362	44.00	1,553	50.15	1,770
Montney Portion	3.80	134	9.71	343	20.85	736	28.32	1,000	35.53	1,254
15 - Northeast BC	19.44	686	16.35	577	17.20	607	18.83	665	21.03	742
Horn River Shale Portion	0.28	10	1.15	41	5.83	206	9.05	319	12.07	426
Tight Portion	11.65	411	9.97	352	8.04	284	6.98	246	6.46	228
16 - BC Foothills	14.80	522	14.41	509	11.26	398	9.41	332	8.64	305
17 - Southwest Saskatchewan	10.17	359	9.57	338	8.27	292	6.82	241	5.88	207
Tight Portion	9.60	339	8.93	315	7.58	267	6.15	217	5.22	184
18 - West Saskatchewan	4.40	155	3.86	136	3.60	127	3.16	112	2.85	101
19 - East Saskatchewan	1.54	54	1.59	56	1.42	50	1.38	49	1.34	47
22 - Yukon and Northwest Territories	0.64	23	0.51	18	0.32	11	0.23	8	0.16	6
<b>Total Conventional (non-tight)</b>	<b>290.11</b>	<b>10,241</b>	<b>261.78</b>	<b>9,241</b>	<b>211.79</b>	<b>7,476</b>	<b>183.57</b>	<b>6,480</b>	<b>166.74</b>	<b>5,886</b>
<b>Total Tight</b>	<b>138.64</b>	<b>4,894</b>	<b>132.02</b>	<b>4,660</b>	<b>131.97</b>	<b>4,658</b>	<b>121.31</b>	<b>4,282</b>	<b>119.03</b>	<b>4,202</b>
<b>Total CBM</b>	<b>21.60</b>	<b>762</b>	<b>22.81</b>	<b>805</b>	<b>20.55</b>	<b>725</b>	<b>17.81</b>	<b>629</b>	<b>16.20</b>	<b>572</b>
<b>Total Shale</b>	<b>0.28</b>	<b>10</b>	<b>1.15</b>	<b>41</b>	<b>5.83</b>	<b>206</b>	<b>9.05</b>	<b>319</b>	<b>12.07</b>	<b>426</b>
<b>Total WCSB</b>	<b>450.63</b>	<b>15,907</b>	<b>417.76</b>	<b>14,747</b>	<b>370.13</b>	<b>13,066</b>	<b>331.74</b>	<b>11,710</b>	<b>314.04</b>	<b>11,086</b>
Atlantic Canada	11.85	418	9.49	335	8.93	315	10.13	358	13.08	462
Other Canada	0.53	19	0.51	18	0.50	18	0.76	27	0.75	26
<b>Total Canada</b>	<b>463.02</b>	<b>16,345</b>	<b>427.76</b>	<b>15,100</b>	<b>379.56</b>	<b>13,398</b>	<b>342.63</b>	<b>12,095</b>	<b>327.87</b>	<b>11,574</b>

rates are annual averages

\* historical for January - July, projected for August - December

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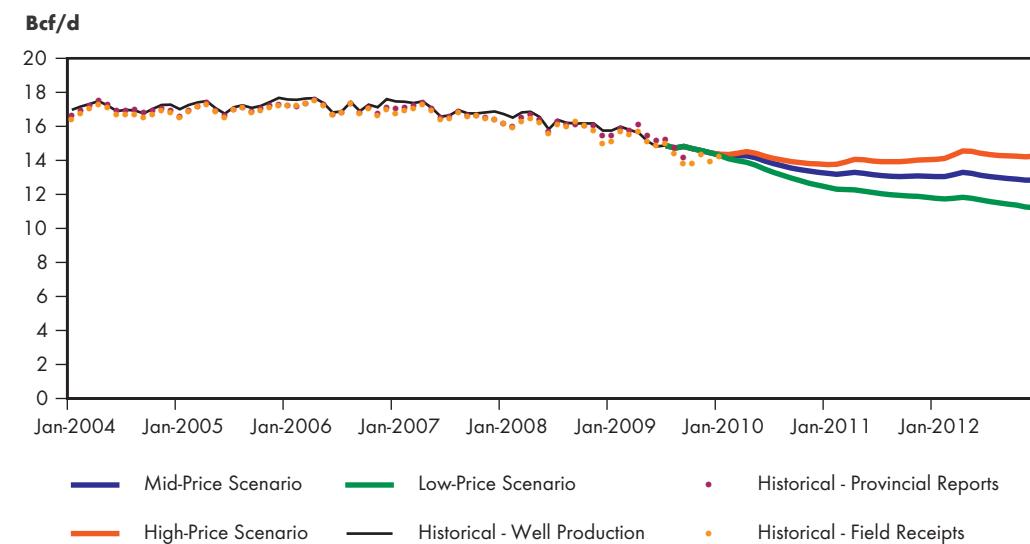
**FIGURE C 3****Outlook for Canadian Gas Deliverability – Low Scenario**

# APPENDIX D

## Total Canadian Deliverability Scenario Comparison

FIGURE D1

### Total Canadian Deliverability Scenario Comparison



# APPENDIX E

## Average Annual Canadian Deliverability and Demand

	E.1 – Average Annual Canadian Deliverability and Demand									
	2008		2009		2010		2011		2012	
	$10^6 \text{m}^3/\text{d}$	Bcf/d	$10^6 \text{m}^3/\text{d}$	Bcf/d	$10^6 \text{m}^3/\text{d}$	Bcf/d	$10^6 \text{m}^3/\text{d}$	Bcf/d	$10^6 \text{m}^3/\text{d}$	Bcf/d
Canadian Deliverability, Mid-Price Scenario	463.0	16.34	427.8	15.10	392.7	13.86	372.4	13.15	369.3	13.04
Total Canadian Demand	237.7	8.4	244.3	8.6	250.2	8.8	258.1	9.1	268.0	9.5
Western Canada Demand	138.5	4.89	144.7	5.11	148.1	5.23	151.4	5.34	154.3	5.45
Eastern Canada Demand	99.1	3.50	99.7	3.52	102.1	3.60	106.8	3.77	113.7	4.01

