



**FRONTERA ENERGY CORPORATION**

**STATEMENT OF RESERVES DATA AND OTHER OIL AND GAS INFORMATION**

As of December 31, 2018

## RELEVANT DATES

This statement of reserves data and other oil and gas information set forth below (the “**Statement**”) is dated March 13, 2019. The effective date of the information provided in this Statement is December 31, 2018 and the preparation date of the information provided in this Statement is March 13, 2019.

## ABBREVIATIONS AND CONVERSIONS

The following is a list of abbreviations that are used in this Statement.

### **Oil and Natural Gas Liquids**

bbl	barrel
Mbbl	thousand barrels
bbl/d	barrel per day

### **Natural Gas**

Mcf	thousand cubic feet
MMcf	million cubic feet
Mcf/d	thousand cubic feet per day
MMBtu	million British thermal units

### **Other**

API	American Petroleum Institute
°API	an indication of the specific gravity of crude oil measured on the API gravity scale. Liquid petroleum with a specified gravity of 28°API or higher is generally referred to as light crude oil.
boe	barrels of oil equivalent
boe/d	barrels of oil equivalent per day
Mboe	thousand barrels of oil equivalent
MMboe	Million barrels of oil equivalent
M\$	thousands of U.S. dollars

The following table sets forth certain standard conversions between Standard Imperial Units and the International System of Units (or metric units).

<b>To convert from</b>	<b>To</b>	<b>Multiply by</b>
Mcf	1,000 cubic metres of gas	0.028
1,000 cubic metres of gas	Mcf	35.3147
bbl	cubic metres of oil	0.159
cubic metres of oil	bbl	6.290
feet	metres	0.305
metres	feet	3.281
miles	kilometres	1.609
kilometres	miles	0.621
acres	hectares	0.405
hectares	acres	2.471

The term “boe” is used in this Statement. Boe may be misleading, particularly if used in isolation. A boe conversion ratio of cubic feet to barrels is based on an energy equivalency conversion method primarily applicable at the burner tip and does not represent a value equivalency at the wellhead. In this Statement, unless otherwise indicated, the Company has expressed boe using the Colombian conversion standard of 5.7 Mcf to 1 bbl required by the Colombian Ministry of Mines and Energy. In certain tables, the Company has expressed boe using the Peruvian conversion standard of 5.626 Mcf to 1 bbl required by Perupetro and the Canadian conversion standard of 6.0 Mcf to 1 bbl.

## NOTES AND DEFINITIONS

The Company is subject to the reporting requirements of Canadian securities regulatory authorities, including the reporting of reserves data in accordance with NI 51-101. All oil and natural gas reserves information contained in this Statement has been prepared and presented in accordance with NI 51-101. In certain instances, the numbers in the tables below may not total due to computer-generated rounding. Unless otherwise stated, references herein to "\$", "US\$" or "dollars" are to United States dollars.

The following terms used in preparing this Statement have the following meanings:

**"Company"** means Frontera Energy Corporation.

**"gross"** means

- (a) in relation to the Company's interest in production or reserves, its working interest (operating or non-operating) share before deduction of royalties and without including any royalty interests of the Company;
- (b) in relation to the Company's interest in wells, it means the total wells in which the Company has an interest, directly or indirectly; and
- (c) in relation to the Company's interest in a property, the total acres in which the Company has an interest, directly or indirectly.

**"net"** means

- (a) in relation to the Company's interest in production or reserves, its working interest (operating or non-operating) share after deduction of royalty obligations, plus the Company's royalty interests in reserves;
- (b) in relation to the Company's interest in wells, the total acres in which the Company has an interest, directly or indirectly, multiplied by the percentage working interest owned by the Company, directly or indirectly; and
- (c) in relation to the Company's interest in a property, the total acres in which the Company has an interest, directly or indirectly, multiplied by the percentage working interest owned by the Company, directly or indirectly.

**"NI 51-101"** means National Instrument 51-101 – *Standards of Disclosure for Oil and Gas Activities*.

**"possible"** reserves are those additional reserves that are less certain to be recovered than probable reserves. There is at least a 10% probability that the quantities actually recovered will equal or exceed the sum of the estimated proved plus probable plus possible reserves.

**"production"** is equal to the total amount of the Company's working interest production (before royalties) and volumes produced from service contracts.

Certain terms used in this Statement but not defined herein are defined in NI 51-101 or the Canadian Oil and Gas Evaluation Handbook maintained by the Society of Petroleum Evaluation Engineers (Calgary Chapter) (the **"COGE Handbook"**) and, unless the context requires otherwise, shall have the same meanings in this Statement as in NI 51-101 or the COGE Handbook, as applicable.

## FORWARD LOOKING STATEMENTS

This Statement may contain or incorporate by reference information that constitutes "forward-looking information" or "forward-looking statements" (collectively, **"forward-looking information"**) within the meaning of the applicable securities legislation which involves known and unknown risks, uncertainties, and other factors which may cause the actual results, performance or achievements of the Company, or industry results, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking information. When used in this Statement, such information uses words such as "may", "will", "expect", "believe", "plan", "intend" and other

similar terminology. This forward-looking information reflects current expectations regarding future events and operating performance and speaks only as of the date of this Statement. Forward-looking information involves significant risks and uncertainties, and therefore, should not be read as a guarantee of future performance or results and will not necessarily be an accurate indication of whether or not such results will be achieved. Accordingly, undue reliance should not be placed on such statements. A number of factors could cause actual results to differ materially from the results discussed in the forward-looking information, including, but not limited to, the factors discussed (i) under the heading entitled “Risk Factors” in the Company’s Annual Information Form dated March 13, 2019, and (ii) under the heading entitled “Risks and Uncertainties” in the Company’s Management’s Discussion and Analysis, dated March 13, 2019, for the year ended December 31, 2018 (collectively, the **“Company’s Disclosure Filings”**).

This Statement contains, or incorporates by reference, forward-looking information pertaining to, among other things, the following:

- drilling inventory, drilling plans and timing of drilling, re-completion and tie-in of wells;
- impact of facilities and infrastructure projects, hedging and cost savings initiatives;
- the performance characteristics of the Company’s oil and natural gas properties;
- drilling, completion and facilities costs;
- results of various projects of the Company;
- timing of development of undeveloped reserves;
- the Company’s oil and natural gas production levels;
- the size of, and future net revenues from, the Company’s oil and natural gas reserves;
- projections of market prices and costs;
- supply and demand for oil and natural gas;
- expectations regarding the ability to continually add to reserves through acquisitions, exploration and development; and
- capital expenditure programs and the timing and method of financing thereof.

With respect to forward-looking information contained in this Statement, the Company has made certain assumptions regarding, among other things:

- future prices for oil and natural gas;
- future currency and interest rates; and
- the Company’s ability to generate sufficient cash flow from operations and access to credit facilities and capital markets to meet its future obligations.

Forward-looking information is based on current expectations, estimates and projections that involve a number of risks which could cause actual results to vary and in some instances to differ materially from those anticipated by the Company and described in the forward-looking information contained in this Statement. The material risk factors include, but are not limited to:

- volatility in market prices for oil and natural gas;
- uncertainties associated with estimating oil and natural gas reserves;
- liabilities inherent with the exploration and development of oil and natural gas;
- uncertainty of estimates of capital and operating costs, production estimates and estimated economic return;
- geological, technical, drilling and processing problems; and
- the other factors discussed in the Company’s Disclosure Filings.

Information relating to reserves is deemed to be forward-looking information, as it involves the implied assessment, based on certain estimates and assumptions about the profitable production of the resources and reserves described. Readers are cautioned that the foregoing lists of factors are not exhaustive. The forward-looking information contained in this Statement is expressly qualified by this cautionary statement. The Company does not undertake any obligation to publicly update or revise any forward-looking information, other than as required by applicable securities laws.

For further information regarding forward-looking information or the risks associated with the Company, please see the Company’s Disclosure Filings.

## DISCLOSURE OF RESERVES DATA

The reserves data included in this Statement is based on the evaluation conducted by DeGolyer and MacNaughton (“D&M”) contained in their report dated February 25, 2019 (the “Reserves Report”). D&M is an independent qualified reserves evaluator as defined in NI 51-101.

Actual oil and natural gas reserves and future production may be greater than or less than the estimates provided in this Statement. There is no assurance that forecast prices and costs assumed in the Reserves Report, and presented in this Statement, will be attained and variances from such forecast prices and costs could be material. The estimated future net revenue from the production of the disclosed oil and natural gas reserves in this Statement does not represent the fair market value of these reserves.

The estimates of reserves and future development capital for individual properties may not reflect the same confidence level as estimates of reserves and future development capital for all properties, due to the effects of aggregation.

### Summary of Oil and Gas Reserves Based on Forecast Prices and Costs

	Light and Medium Crude Oil		Heavy Crude Oil		Conventional Natural Gas		Natural Gas Liquids		Total	
	Gross (Mbbbl)	Net (Mbbbl)	Gross (Mbbbl)	Net (Mbbbl)	Gross (MMcf)	Net (MMcf)	Gross (Mbbbl)	Net (Mbbbl)	Gross (Mboe)	Net (Mboe)
<b>Proved Developed Producing</b>										
Colombia	19,467	17,926	14,503	12,865	9,398	9,398	2	1	35,620	32,442
Peru	3,434	2,885	0	0	0	0	0	0	3,434	2,885
<b>Total Proved Developed Producing</b>	<b>22,901</b>	<b>20,811</b>	<b>14,503</b>	<b>12,865</b>	<b>9,398</b>	<b>9,398</b>	<b>2</b>	<b>1</b>	<b>39,054</b>	<b>35,327</b>
<b>Proved Developed Non-Producing</b>										
Colombia	3,228	2,971	2,150	1,999	0	0	0	0	5,377	4,970
Peru	46	38	0	0	0	0	0	0	46	38
<b>Total Proved Developed Non-Producing</b>	<b>3,273</b>	<b>3,009</b>	<b>2,150</b>	<b>1,999</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,423</b>	<b>5,008</b>
<b>Proved Undeveloped</b>										
Colombia	7,129	6,559	64,200	57,966	0	0	0	0	71,329	64,524
Peru	0	0	0	0	0	0	0	0	0	0
<b>Total Proved Undeveloped</b>	<b>7,129</b>	<b>6,559</b>	<b>64,200</b>	<b>57,966</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>71,329</b>	<b>64,524</b>
<b>Proved</b>										
Colombia	29,823	27,456	80,852	72,830	9,398	9,398	2	1	112,328	101,936
Peru	3,480	2,923	0	0	0	0	0	0	3,480	2,923
<b>Total Proved</b>	<b>33,303</b>	<b>30,379</b>	<b>80,852</b>	<b>72,830</b>	<b>9,398</b>	<b>9,398</b>	<b>2</b>	<b>1</b>	<b>115,808</b>	<b>104,859</b>
<b>Probable</b>										
Colombia	23,035	21,195	26,803	23,950	6,357	6,357	1	1	50,954	46,262
Peru	3,836	3,823	0	0	0	0	0	0	3,836	3,823
<b>Total Probable</b>	<b>26,871</b>	<b>25,019</b>	<b>26,803</b>	<b>23,950</b>	<b>6,357</b>	<b>6,357</b>	<b>1</b>	<b>1</b>	<b>54,789</b>	<b>50,085</b>
<b>Proved Plus Probable</b>										
Colombia	52,858	48,651	107,655	96,780	15,754	15,754	3	2	163,280	148,198
Peru	7,316	6,746	0	0	0	0	0	0	7,316	6,746
<b>Total Proved Plus Probable</b>	<b>60,174</b>	<b>55,398</b>	<b>107,655</b>	<b>96,780</b>	<b>15,754</b>	<b>15,754</b>	<b>3</b>	<b>2</b>	<b>170,596</b>	<b>154,944</b>
<b>Possible</b>										
Colombia	27,292	25,109	12,992	12,282	4,055	4,055	1	1	40,995	38,103
Peru	2,967	2,952	0	0	0	0	0	0	2,967	2,952
<b>Total Possible<sup>(2)</sup></b>	<b>30,259</b>	<b>28,061</b>	<b>12,992</b>	<b>12,282</b>	<b>4,055</b>	<b>4,055</b>	<b>1</b>	<b>1</b>	<b>43,963</b>	<b>41,055</b>
<b>Proved Plus Probable Plus Possible</b>										
Colombia	80,150	73,760	120,647	109,063	19,809	19,809	3	3	204,276	186,301
Peru	10,283	9,698	0	0	0	0	0	0	10,283	9,698
<b>Total Proved Plus Probable Plus Possible<sup>(3)</sup></b>	<b>90,433</b>	<b>83,459</b>	<b>120,647</b>	<b>109,063</b>	<b>19,809</b>	<b>19,809</b>	<b>3</b>	<b>3</b>	<b>214,559</b>	<b>196,000</b>

## Net Present Value of Future Net Revenue Based on Forecast Prices and Costs

(M\$US)	Before Deducting Future Income Taxes Discounted @					After Deducting Future Income Taxes Discounted @				
	0%	5%	10%	15%	20%	0%	5%	10%	15%	20%
<b>Proved Developed Producing</b>										
Colombia	689.899	674.423	656.759	645.311	623.186	651.911	637.284	620.595	602.798	584.505
Peru	78.240	76.162	74.162	72.237	70.384	77.575	75.529	73.557	71.659	69.830
<b>Total Proved Developed Producing</b>	<b>768.139</b>	<b>750.585</b>	<b>730.921</b>	<b>717.549</b>	<b>693.570</b>	<b>729.486</b>	<b>712.813</b>	<b>694.152</b>	<b>674.457</b>	<b>654.335</b>
<b>Proved Developed Non-Producing</b>										
Colombia	97.565	91.413	85.187	79.206	73.512	91.206	85.397	79.519	73.828	68.462
Peru	1.267	1.233	1.201	1.170	1.140	1.256	1.223	1.191	1.160	1.131
<b>Total Proved Developed Non-Producing</b>	<b>98.832</b>	<b>92.646</b>	<b>86.388</b>	<b>80.376</b>	<b>74.652</b>	<b>92.462</b>	<b>86.620</b>	<b>80.710</b>	<b>74.989</b>	<b>69.593</b>
<b>Proved Undeveloped</b>										
Colombia	1.085.926	802.753	610.844	472.698	369.076	1.026.130	758.551	577.208	446.669	348.753
Peru	0	0	0	0	0	0	0	0	0	0
<b>Total Proved Undeveloped</b>	<b>1.085.926</b>	<b>802.753</b>	<b>610.844</b>	<b>472.698</b>	<b>369.076</b>	<b>1.026.130</b>	<b>758.551</b>	<b>577.208</b>	<b>446.669</b>	<b>348.753</b>
<b>Proved</b>										
Colombia	1.873.391	1.568.589	1.352.790	1.197.215	1.065.775	1.769.246	1.481.232	1.277.322	1.123.295	1.001.720
Peru	79.507	77.395	75.363	73.407	71.524	78.831	76.752	74.749	72.820	70.961
<b>Total Proved</b>	<b>1.952.897</b>	<b>1.645.984</b>	<b>1.428.153</b>	<b>1.270.622</b>	<b>1.137.298</b>	<b>1.848.078</b>	<b>1.557.984</b>	<b>1.352.070</b>	<b>1.196.115</b>	<b>1.072.681</b>
<b>Probable</b>										
Colombia	1.231.757	949.512	750.772	608.126	500.052	914.135	694.838	540.517	428.973	346.355
Peru	37.438	32.548	27.556	22.867	18.663	34.997	30.526	25.855	21.417	17.413
<b>Total Probable</b>	<b>1.269.196</b>	<b>982.059</b>	<b>778.327</b>	<b>630.993</b>	<b>518.714</b>	<b>949.132</b>	<b>725.364</b>	<b>566.372</b>	<b>450.391</b>	<b>363.768</b>
<b>Proved Plus Probable</b>										
Colombia	3.105.148	2.518.101	2.103.562	1.805.341	1.565.827	2.683.381	2.176.070	1.817.839	1.552.268	1.348.075
Peru	116.945	109.943	102.918	96.274	90.186	113.829	107.278	100.604	94.237	88.373
<b>Total Proved Plus Probable</b>	<b>3.222.093</b>	<b>2.628.043</b>	<b>2.206.480</b>	<b>1.901.615</b>	<b>1.656.013</b>	<b>2.797.210</b>	<b>2.283.347</b>	<b>1.918.443</b>	<b>1.646.505</b>	<b>1.436.449</b>
<b>Possible</b>										
Colombia	1.053.807	762.933	577.828	454.930	367.991	745.810	529.245	393.053	303.217	241.180
Peru	141.655	110.624	86.896	68.739	54.814	128.975	100.257	78.311	61.548	48.730
<b>Total Possible</b>	<b>1.195.462</b>	<b>873.557</b>	<b>664.724</b>	<b>523.669</b>	<b>422.805</b>	<b>874.785</b>	<b>629.502</b>	<b>471.364</b>	<b>364.765</b>	<b>289.909</b>
<b>Proved Plus Probable Plus Possible</b>										
Colombia	4.158.955	3.281.034	2.681.390	2.260.271	1.933.818	3.429.191	2.705.315	2.210.892	1.855.485	1.589.255
Peru	258.600	220.567	189.814	165.013	145.000	242.804	207.535	178.915	155.785	137.103
<b>Total Proved Plus Probable Plus Possible</b>	<b>4.417.555</b>	<b>3.501.600</b>	<b>2.871.204</b>	<b>2.425.284</b>	<b>2.078.818</b>	<b>3.671.995</b>	<b>2.912.850</b>	<b>2.389.807</b>	<b>2.011.270</b>	<b>1.726.358</b>

## Total Future Net Revenue (Undiscounted) Based on Forecast Prices and Costs

	Revenue M\$	In Kind Royalties in Colombia <sup>(1)</sup> Mbbl	Cash Royalties in Colombia <sup>(1)</sup> M\$	Production & Mineral Tax Peru M\$	Operating Costs M\$	Capital Development Costs M\$	Abandonment and Reclamation Costs M\$	Future Net Revenue Before Income Taxes M\$	Future Income Taxes M\$	Future Net Revenue After Income Taxes M\$
<b>Proved</b>										
Colombia	5,337,525	10,389	254,644	0	1,728,317	1,152,793	328,382	1,873,391	104,144	1,769,246
Peru	141,427	557	0	0	61,920	0	0	79,507	675	78,831
<b>Total Proved</b>	<b>5,478,953</b>	<b>10,946</b>	<b>254,644</b>	<b>0</b>	<b>1,790,237</b>	<b>1,152,793</b>	<b>328,382</b>	<b>1,952,897</b>	<b>104,820</b>	<b>1,848,078</b>
<b>Proved Plus Probable</b>										
Colombia	7,923,555	15,080	416,361	0	2,481,917	1,558,138	361,962	3,105,148	421,767	2,683,381
Peru	398,680	569	0	12,702	172,291	66,268	30,474	116,045	3,116	113,829
<b>Total Proved Plus Probable</b>	<b>8,322,235</b>	<b>15,650</b>	<b>416,361</b>	<b>12,702</b>	<b>2,654,207</b>	<b>1,624,406</b>	<b>392,436</b>	<b>3,222,093</b>	<b>424,883</b>	<b>2,797,210</b>
<b>Proved Plus Probable Plus Possible</b>										
Colombia	10,164,972	17,973	650,557	0	3,056,070	1,911,898	387,692	4,158,955	729,763	3,429,191
Peru	604,313	584	0	23,251	193,214	95,802	33,446	258,600	15,796	242,804
<b>Total Proved Plus Probable Plus Possible</b>	<b>10,769,285</b>	<b>18,557</b>	<b>650,557</b>	<b>23,251</b>	<b>3,249,284</b>	<b>2,007,500</b>	<b>421,138</b>	<b>4,417,555</b>	<b>745,560</b>	<b>3,671,995</b>

Notes:

- <sup>(1)</sup> Colombian oil royalties, including additional participation percentage in production, are paid in kind and in cash. Colombian natural gas and natural gas liquids royalties are paid in cash.

**Net Present Value of Future Net Revenue by Product Type  
Based on Forecast Prices and Costs<sup>2</sup>**

				Future Net Revenue Before Income Taxes (Discounted at 10% Per Year)	Unit Value <sup>(1)</sup>
				(M\$US)	(\$/boe)
<b>Proved Developing Producing</b>					
Light and medium crude oil				472,384	22.70
Heavy crude oil				230,576	17.92
Conventional natural gas				27,961	16.96
<b>Total Proved Developed Producing</b>				730,921	20.69
<b>Proved Developed Non-Producing</b>					
Light and medium crude oil				48,988	16.28
Heavy crude oil				37,400	18.71
Conventional natural gas				0	0.00
<b>Total Proved Developed Non-Producing</b>				86,388	17.25
<b>Proved Undeveloped</b>					
Light and medium crude oil				57,141	8.71
Heavy crude oil				553,703	9.55
Conventional natural gas				0	0.00
<b>Total Proved Undeveloped</b>				610,844	9.47
<b>Proved</b>					
Light and medium crude oil				578,513	19.04
Heavy crude oil				821,679	11.28
Conventional natural gas				27,961	16.96
<b>Total Proved</b>				1,428,153	13.62
<b>Probable</b>					
Light and medium crude oil				414,362	16.56
Heavy crude oil				339,810	14.19
Conventional natural gas				24,156	21.66
<b>Total Probable</b>				778,327	15.54
<b>Proved Plus Probable</b>					
Light and medium crude oil				992,875	17.92
Heavy crude oil				1,161,489	12.00
Conventional natural gas				52,116	18.86
<b>Total Proved Plus Probable</b>				2,206,480	14.24
<b>Possible</b>					
Light and medium crude oil				563,017	20.06
Heavy crude oil				85,806	6.99
Conventional natural gas				15,901	22.35
<b>Total Possible</b>				664,724	16.19
<b>Proved Plus Probable Plus Possible</b>					
Light and medium crude oil				1,555,892	18.64
Heavy crude oil				1,247,295	11.44
Conventional natural gas				68,017	19.57
<b>Total Proved Plus Probable Plus Possible</b>				2,871,204	14.65

**Notes:**

(1) Unit values are based on net reserves volumes.

(2) Natural gas liquids have not been presented separately because production for such product type was immaterial to the Company for the year ended December 31, 2018.

## PRICING ASSUMPTIONS

The following table sets out, as at December 31, 2018, the benchmark reference prices, inflation and exchange rate used in the Reserves Report.

	Heavy, Light and Medium Crude Oil		Conventional Natural Gas Colombia	Inflation Rate	Exchange Rate
	BRENT 40° API <sup>(1)</sup> (\$US/bbl)	Vasconia 25° API <sup>(2)</sup> (\$US/bbl)	La Creciente <sup>(3)</sup> (\$US/MMbtu)	Percent Per Year	(\$US/\$Cdn)
Year					
2019	65.92	59.61	4.56	2%	0.76
2020	69.47	63.09	6.46	2%	0.78
2021	71.65	65.21	6.80	2%	0.80
2022	73.72	67.19	7.47	2%	0.80
2023	75.58	68.95	8.38	2%	0.81
2024	77.39	70.66	9.28	2%	0.81
2025	79.27	72.44	9.89	2%	0.81
2026	81.27	74.34	10.05	2%	0.81
2027	82.88	75.84	10.01	2%	0.81
2028	84.54	77.40	10.07	2%	0.81
2029	86.21	78.96	10.31	2%	0.81
2030	87.93	80.58	10.65	2%	0.81
2031	89.68	82.21	10.97	2%	0.81
Thereafter	2%	2%	2%	2%	

**Notes:**

- (1) The Reserves Report used the average Brent reference projected price of three international independent auditors: GLJ Petroleum Consultants, McDaniel and Associates Consultants and Sproule Consultants.
- (2) The reference for Colombian crude oils is Vasconia blend.
- (3) Gas prices for 2019 reflect contracted prices and from 2020 onwards reflect projected prices based on forecasts provided by Unidad de Planeación Minero Energética, Colombia's energy planning agency.

For the year ended December 31, 2018, the weighted average price excluding hedging impact was \$62.41/bbl for heavy crude oil, \$67.97/bbl for light and medium crude oil, \$4.32/Mcf for conventional natural gas.



## RECONCILIATION OF CHANGES IN RESERVES

The following tables provide a reconciliation of the changes in the Company's gross reserve volumes estimates as of December 31, 2018 compared to such reserves as of December 31, 2017 (using forecast prices and costs) in Colombia:

COLOMBIA												
	Light and Medium Crude Oil			Heavy Crude Oil			Conventional Natural Gas			Natural Gas Liquids		
Proved Probable P+P Factors	Proved (Mbbbl)	Probable (Mbbbl)	Proved Plus Probable (Mbbbl)	Proved (Mbbbl)	Probable (Mbbbl)	Proved Plus Probable (Mbbbl)	Proved (MMcf)	Probable (MMcf)	Proved Plus Probable (MMcf)	Proved (Mbbbl)	Probable (Mbbbl)	Proved Plus Probable (Mbbbl)
At December 31, 2017	38,104	20,965	59,069	83,604	16,952	100,556	11,009	7,495	18,504	3	1	4
Discoveries <sup>(1)</sup>	2,579	4,584	7,163	0	757	757	0	0	0	0	0	0
Extensions & Improved Recovery <sup>(2)</sup>	0	751	751	0	0	0	0	0	0	0	0	0
Technical Revisions <sup>(3)</sup>	-2,963	-4,946	-7,909	795	6,360	7,155	7,098	-1,139	5,960	3	0	3
Acquisition	0	0	0	0	0	0	0	0	0	0	0	0
Dispositions	0	0	0	0	0	0	0	0	0	0	0	0
Economic Factors <sup>(4)</sup>	2,534	1,681	4,215	6,999	2,733	9,732	0	0	0	0	0	0
Production	-10,731	0	-10,731	-10,545	0	-10,545	-8,710	0	-8,710	-4	0	-4
At December 31, 2018	29,823	23,035	52,858	80,852	26,803	107,655	9,398	6,357	15,754	2	1	3
Total (boe - 6:1 Conversion)												
Proved Probable P+P Factors	Proved (Mboe)	Probable (Mboe)	Proved Plus Probable (Mboe)	Proved (Mboe)	Probable (Mboe)	Proved Plus Probable (Mboe)						
At December 31, 2017	123,545	39,168	162,713	123,642	39,234	162,876						
Discoveries <sup>(1)</sup>	2,579	5,342	7,920	2,579	5,342	7,920						
Extensions & Improved Recovery <sup>(2)</sup>	0	751	751	0	751	751						
Technical Revisions <sup>(3)</sup>	-679	1,225	546	-619	1,214	594						
Acquisition	0	0	0	0	0	0						
Dispositions	0	0	0	0	0	0						
Economic Factors <sup>(4)</sup>	9,533	4,414	13,947	9,533	4,414	13,947						
Production	-22,732	0	-22,732	-22,808	0	-22,808						
At December 31, 2018	112,246	50,899	163,146	112,326	50,954	163,280						

The following table provide a reconciliation of the changes in the Company's gross reserve volumes estimates as of December 31, 2018 compared to such reserves as of December 31, 2017 (using forecast prices and costs) in Peru:

PERU												
	Light and Medium Crude Oil			Conventional Natural Gas			Total (boe - 6:1 Conversion)			Total (boe - Peruvian Conversion)		
Proved Probable P+P Factors	Proved (Mbbbl)	Probable (Mbbbl)	Proved Plus Probable (Mbbbl)	Proved (MMcf)	Probable (MMcf)	Proved Plus Probable (MMcf)	Proved (Mboe)	Probable (Mboe)	Proved Plus Probable (Mboe)	Proved (Mboe)	Probable (Mboe)	Proved Plus Probable (Mboe)
At December 31, 2017	5,079	4,769	9,848	0	0	0	5,079	4,769	9,848	5,079	4,769	9,848
Discoveries	0	0	0	0	0	0	0	0	0	0	0	0
Extensions & Improved Recovery	0	0	0	0	0	0	0	0	0	0	0	0
Technical Revisions	827	-946	-119	0	0	0	827	-946	-119	827	-946	-119
Acquisition	0	0	0	0	0	0	0	0	0	0	0	0
Dispositions	0	0	0	0	0	0	0	0	0	0	0	0
Economic Factors <sup>(4)</sup>	557	13	569	0	0	0	557	13	569	557	13	569
Production	-2,982	0	-2,982	0	0	0	-2,982	0	-2,982	-2,982	0	-2,982
At December 31, 2018	3,480	3,836	7,316	0	0	0	3,480	3,836	7,316	3,480	3,836	7,316

The following tables provide a reconciliation of the changes in the Company's gross reserve volumes estimates in Colombia and Peru as of December 31, 2018 compared to such reserves as of December 31, 2017 (using forecast prices and costs):

TOTAL COMPANY												
	Light and Medium Crude Oil			Heavy Crude Oil			Conventional Natural Gas			Natural Gas Liquids		
Proved Probable P+P Factors	Proved (Mbbbl)	Probable (Mbbbl)	Proved Plus Probable (Mbbbl)	Proved (Mbbbl)	Probable (Mbbbl)	Proved Plus Probable (Mbbbl)	Proved (MMcf)	Probable (MMcf)	Proved Plus Probable (MMcf)	Proved (Mbbbl)	Probable (Mbbbl)	Proved Plus Probable (Mbbbl)
At December 31, 2017	43,182	25,735	68,917	83,604	16,952	100,556	11,009	7,495	18,504	3	1	4
Discoveries <sup>(1)</sup>	2,579	4,584	7,163	0	757	757	0	0	0	0	0	0
Extensions & Improved Recovery <sup>(2)</sup>	0	751	751	0	0	0	0	0	0	0	0	0
Technical Revisions <sup>(3)</sup>	-1,836	-5,893	-7,728	795	6,360	7,155	7,098	-1,139	5,960	3	0	3
Acquisition	0	0	0	0	0	0	0	0	0	0	0	0
Dispositions	0	0	0	0	0	0	0	0	0	0	0	0
Economic Factors <sup>(4)</sup>	3,091	1,694	4,784	6,999	2,733	9,732	0	0	0	0	0	0
Production	-13,713	0	-13,713	-10,545	0	-10,545	-8,710	0	-8,710	-4	0	-4
At December 31, 2018	33,303	26,871	60,174	80,852	26,803	107,655	9,398	6,357	15,754	2	1	3
Total (boe - 6:1 Conversion)												
Proved Probable P+P Factors	Proved (Mboe)	Probable (Mboe)	Proved Plus Probable (Mboe)	Proved (Mboe)	Probable (Mboe)	Proved Plus Probable (Mboe)						
At December 31, 2017	128,624	43,937	172,561	128,720	44,003	172,723						
Discoveries <sup>(1)</sup>	2,579	5,342	7,920	2,579	5,342	7,920						
Extensions & Improved Recovery <sup>(2)</sup>	0	751	751	0	751	751						
Technical Revisions <sup>(3)</sup>	148	279	427	208	268	475						
Acquisition	0	0	0	0	0	0						
Dispositions	0	0	0	0	0	0						
Economic Factors <sup>(4)</sup>	10,090	4,426	14,516	10,090	4,426	14,516						
Production	-25,714	0	-25,714	-25,791	0	-25,791						
At December 31, 2018	115,728	54,735	170,462	115,806	54,789	170,596						

### Notes:

- (1) Corallito field in Guatiquia block and Chaman field in Sabanero block in Colombia.
- (2) Waterflooding project in Cubiro block in Colombia.
- (3) Positive and negative revisions mainly in Quifa SW field (Quifa block in Colombia), Sabanero field (Sabanero block in Colombia) Alligator field (Guatiquia block in Colombia), Zopilote field (Cravovjejo block in Colombia) and Avispa field (Guatiquia block in Colombia), Neiva field (Colombia), Jaspe and Cajua Sur fields (Quifa block in Colombia).
- (4) Improvement of economic limits caused by the evaluation prices.

## ADDITIONAL INFORMATION RELATING TO RESERVES DATA

### Undeveloped Reserves

Undeveloped reserves are attributed by D&M in the Reserves Report in accordance with engineering and geological practices as defined under NI 51-101. Undeveloped reserves are those reserves expected to be recovered from known accumulations where a significant expenditure (e.g., when compared to the cost of drilling and completing a well) is required to render them capable of production. They must fully meet the requirements of the reserves category (ie. proved, probable, possible) to which they are assigned and expected to be developed within a limited time. In general, development of probable undeveloped reserves requires additional evaluation data to increase the probability of success to an acceptable level for the Company. The Company's undeveloped reserves are being developed in a staged manner in accordance with a development program that allows for optimal deployment of capital and optimizes cost efficiency and value creation. As a result, some developments are scheduled beyond the next two years. The Company's current plan is to develop most of its undeveloped reserves within the following five years, with 80% of the net development capital expected to be invested during that period. The Company's scheduled pace of commercial development is also dependent on the timing of other planned projects including large projects with multiple wells and facilities for which development programs will be in progress throughout the period.

There are a number of factors that could result in delayed or cancelled development, including: (i) changing economic conditions (due to commodity pricing, operating and capital expenditure fluctuation); (ii) changing technical conditions (including production anomalies, such as water breakthrough or accelerated depletion); (iii) multi-zone developments (for instance, a prospective formation completion may be delayed until the initial completion formation is no longer economic); (iv) a larger development program may need to be spread out over several years to optimize capital allocation and facility utilization; and (v) surface access issues (including those relating to land owners, weather conditions and regulatory approvals).

The following table outlines the proved undeveloped reserves and the probable undeveloped reserves attributed to the Company's properties, for the years ended December 31, 2016, 2017 and 2018 based, on forecast prices and costs.

	Light and Medium Crude Oil (Mbbbl)		Heavy Crude Oil (Mbbbl)		Associated Gas and Non-Associated Gas (MMcf)		Natural Gas Liquids (Mbbbl)		Total Oil Equivalent (Mboe - 6:1 Conversion)		Total Oil Equivalent (Mboe)	
	First Attributed	Booked	First Attributed	Booked	First Attributed	Booked	First Attributed	Booked	First Attributed	Booked	First Attributed	Booked
<b>Proved Undeveloped</b>												
2016	952	15,304	2,426	56,127	0	7,351	0	4	3,378	72,659	3,378	72,724
2017	3647.5	9,415	13,635	59,282	0	0	0	0	17,283	68,697	17,283	68,697
2018	1,697	7,129	11,669	64,200	0	0	0	0	13,366	71,329	13,366	71,329
<b>Probable Undeveloped</b>												
2016	3,280	32,697	-243	18,015	0	44,710	0	22	3,037	58,186	3,037	58,579
2017	3,842	18,798	0	16,952	0	0	0	0	3,842	35,750	3,842	35,750
2018	4,764	16,685	13,091	26,534	0	0	0	0	17,855	43,220	17,855	43,220

### Significant Factors or Uncertainties

The process of evaluating reserves is inherently complex. It requires significant judgments and decisions based on available geological, geophysical, engineering, and economic data. These estimates may change substantially as additional data from ongoing development activities and production performance becomes available and as economic conditions impacting oil and gas prices and costs change. The reserves estimates contained herein are based on current production forecasts, prices, and economic conditions. These factors and assumptions, among others, include: (i) historical production in the area compared with production rates from analogous producing areas; (ii) initial production rates; (iii) production decline rates; (iv) ultimate recovery of reserves; (v) success of future development activities; (vi) marketability of production; (vii) effects of government regulations; and (viii) other government levies imposed over the life of the reserves. See "Forward-Looking Statement".

As circumstances change and additional data becomes available, reserves estimates also change. Estimates are reviewed and revised, either upward or downward, as warranted by the new information. Revisions are often required due to changes in well performances, prices, economic conditions, and government restrictions. Revisions to reserve estimates can arise from changes in year-end prices, reservoir performance, and geologic conditions or production. These revisions can be either positive or negative.

At this time, the Company does not anticipate any unusually high development costs or operating costs, the need to build a major pipeline or other major facility before production of reserves can begin, or contractual obligations to produce and sell a significant portion of production at prices substantially below those which could be realized but for those contractual obligations. The Company does not anticipate that any significant economic factors or significant uncertainties, other than those already disclosed herein, will affect any particular components of this Statement.

For details of important economic factors or significant uncertainties that affect particular components of the reserves data please refer to the Company's Disclosure Filings.

#### Future Development Costs

The following table sets out the development costs deducted in the estimation of future net revenue attributable to total proved reserves (using forecast prices and costs) and total proved plus probable reserves (using forecast prices and costs).

(M\$US)	Total Proved Estimated Using Forecast Prices and Costs	Total Proved Plus Probable Estimated Using Forecast Prices and Costs
<b>Colombia</b>		
2019	204,958	240,188
2020	270,390	337,749
2021	204,107	249,978
2022	179,103	231,174
2023	81,733	148,779
Remainder	212,502	350,270
Total for all years undiscounted	1,152,793	1,558,138
<b>Peru</b>		
2019	0	12,029
2020	0	11,817
2021	0	13,823
2022	0	5,604
2023	0	11,383
Remainder	0	11,610
Total for all years undiscounted	0	66,268

The Company intends to primarily use internally generated cash flows from operations to fund future development costs. There can be no guarantee that funds will be available or that the board of directors of the Company will allocate funding to develop all of the reserves attributed by D&M in the Reserves Report. Failure to develop those reserves may have a negative impact on the future cash flow of the Company.

Interest expense related to the Company's debt financing or other costs of external funding are not included in the reserves and future net revenue estimates set forth above and would reduce the reserves and future net revenue to some degree depending on the funding sources used. The Company does not anticipate that interest or other funding costs would make further development of any of the Company's properties uneconomic.

### **OTHER OIL AND GAS INFORMATION**

#### Oil and Gas Properties and Wells

The following provides a summary of the Company's important properties, plants, facilities and installations:

Block	Working Interest <sup>(1)</sup>	Status	Key Terms
Quifa Onshore, Colombia	60%	Production/Exploration	<p>Ending date: December 21, 2031</p> <p>Declaration of Commerciality:</p> <ul style="list-style-type: none"> <li>- Quifa SW field: April 27, 2010</li> <li>- Cajua field: August 14, 2012</li> </ul> <p>Hydrocarbons are transported from the Quifa block using the Oleoducto de los Llanos Orientales S.A. pipeline, which is the Colombian pipeline between the Rubiales field and the Monterrey or Cusiana</p>

			station in Casanare. From Casanare, the Hydrocarbons are transported using the Ocesa pipeline from Cusiana Station to the Caribbean Port of Coveñas.
Cubiro Onshore, Colombia	100%	Production	<p>Ending date: 24 years after a declaration of commerciality</p> <p>Declaration of Commerciality:</p> <ul style="list-style-type: none"> <li>- Arauco field: November 18, 2008</li> <li>- Barranquero field (including the Cernicalo and Tijereto fields): May 10, 2012</li> <li>- Careto field: January 8, 2008</li> <li>- Copa, Copa A Norte, Copa A Sur, Copa B, Copa C, Copa D fields: September 16, 2013</li> <li>- Petirrojo and Petirrojo Sur fields: November 20, 2013</li> <li>- Yopo field: April 10, 2014</li> </ul> <p>Hydrocarbons are transported from the Cubiro block by truck to the entry point using the OCENSA pipeline, which is the Colombian pipeline that runs from the Cusiana station in Casanare to the Caribbean Port of Coveñas.</p>
CPE-6 Onshore, Colombia	100%	Exploration/Evaluation	<p>Ending date: 24 years after a declaration of commerciality</p> <p>The Company must relinquish 50% of the exploration contracted area at the end of the minimum exploration program which will expire on September 21, 2020.</p> <p>Declaration of Commerciality:</p> <ul style="list-style-type: none"> <li>- Hamaca field: January 30, 2018</li> </ul> <p>Hydrocarbons are transported from the CPE-6 block to the Caribbean Port of Coveñas through the OGD, Guaduas La Dorada OAM pipeline (the Colombian pipeline that runs from Tenay station to the Vasconia station) and the ODC pipeline.</p>
Guatiquia Onshore, Colombia	100%	Production/Exploration	<p>Ending date: 24 years after a declaration of commerciality</p> <p>Declaration of Commerciality:</p> <ul style="list-style-type: none"> <li>- Candelilla field: April 20, 2011</li> <li>- Yatay field: April 10, 2012</li> <li>- Ceibo-Avispa-Adrilla-Alligator fields: June 25, 2014</li> <li>- Ardilla field: November 27, 2015</li> <li>- Coralillo field: July 11, 2018</li> </ul> <p>The Company is required to relinquish any exploration contracted area that has not been declared to be in evaluation or exploitation phase at the end of the subsequent exploration program.</p> <p>Hydrocarbons are transported from the Guatiquia block by truck to the entry point of the OCENSA pipeline, which is the Colombian pipeline that runs from the Cusiana station in Casanare to the Caribbean Port of Coveña</p>
Cravoviejo Onshore, Colombia	100%	Production	<p>Ending date: 24 years after a declaration of commerciality</p> <p>Declaration of Commerciality:</p> <ul style="list-style-type: none"> <li>- Bastidas field: December 14, 2009</li> <li>- Matemarrano field (including the Gemar field): February 18, 2010</li> <li>- Carrizales field: March 12, 2010</li> <li>- Saimirí field: February 1, 2013</li> <li>- Zopilote field: August 15, 2013</li> <li>- Coralillo field: July 11, 2018</li> </ul> <p>Hydrocarbons are transported from the Cravoviejo block by truck to the entry point of the OCENSA pipeline, which is the Colombian pipeline that runs from the Cusiana station in Casanare to the Caribbean Port of Coveñas. Additionally, hydrocarbons are transported to Hidrocasanare Refinery in Casanare.</p>
Casimena Onshore, Colombia	100%	Production	<p>Ending date: 24 years after a declaration of commerciality</p> <p>Declaration of Commerciality:</p> <ul style="list-style-type: none"> <li>- Yenac field: July 15, 2011</li> <li>- Mantis field: April 10, 2012</li> <li>- Pisingo field: February 1, 2013</li> </ul> <p>Hydrocarbons are transported from the Casimena block by truck to the entry point of the OCENSA pipeline, which is the Colombian pipeline that runs from the Cusiana station in Casanare to the Caribbean Port of Coveñas.</p>
Block Z-1 Offshore, Peru	49%	Production	<p>Ending date:</p> <ul style="list-style-type: none"> <li>- Crude oil – 30 years from the effective date (being January 29, 2002)</li> <li>- Natural gas – 40 years from the effective date (being January 29, 2002)</li> </ul> <p>Hydrocarbons are transported from Block Z-1 by vessels to the Talara Refinery in Peru.</p>

Notes:

(1) The working interest mentioned for each contract are net after state royalties and other participations.

## Oil and Gas Wells

The following table sets forth the number of wells in which the Company held a working interest as at December 31, 2018:

	Oil Gross Wells	Oil Net Wells	Natural Gas Gross Wells	Natural Gas Net Wells
<b>Colombia</b>				
Producing	789	605.2	7	7
Non-Producing	500	397.5	5	5
<b>Peru</b>				
Producing	40	30.8	0	0
Non-Producing	177	170.4	0	0
Total Producing	829	636.0	7	7
Total Non-Producing	677	567.9	5	5

## Properties with No Attributed Reserves

The following table sets out the gross and net acres of unproved properties in which the Company had an interest as at December 31, 2018 and the number of net acres for which the Company's rights to explore, develop or exploit could expire within one year.

Country	Undeveloped Land		
	Gross Acres	Net Acres	Net Acres Expiring within one year
Colombia	4,137,633	2,973,696	966,750
Peru	1,628,126	814,063	814,063
Total	5,765,759	3,787,759	1,780,813

The Company's properties with no attributed reserves are geographically and technically diverse. Such properties require a variety of capital investments ranging from seismic acquisition to drilling and development in order to explore and potentially prove-up reserves. Some properties are in the early evaluation stages of exploration while others have discovered hydrocarbons. Management is continuously reviewing the Company's property profile in order to prioritize opportunities to develop its lands.

In undeveloped or unexplored areas, it is common to require companies to pledge to carry out work commitments such as seismic acquisition, geophysical studies or exploration drilling in exchange for property exploration and development rights. Management estimates work commitments of approximately \$170.4 million to retain the related properties located in Colombia and Peru over the next three years.

## Forward Contracts

The Company seeks to minimize the effects of oil price fluctuations by using derivative financial instruments to hedge its risk exposures. The Company's strategy, policies and controls are designed to ensure that the risks it assumes comply with the Company's internal objectives and its risk tolerance.

In 2018, the Company had in place a hedging program which comprised of hedging future production through the use of "zero cost collar" or similar strategies that consisted of a put option and a call option, establishing a price band for Brent Light Sweet Crude Oil price, with floor and ceiling prices for an agreed volume.

For further information, please see the Company's audited consolidated financial statements for the years ended December 31, 2018 and 2017, dated March 13, 2019 which information can be found on the Company's website at [www.fronteraenergy.ca](http://www.fronteraenergy.ca) and on SEDAR at [www.sedar.com](http://www.sedar.com).

## Costs Incurred

The following table outlines the costs incurred by the Company for the fiscal year ended December 31, 2018:

Country	Property Acquisition Cost (M\$)		Exploration Costs (M\$)	Development Costs (M\$)
	Proved	Unproved		
Colombia	0	0	79.1	339.5
Peru	0	0	17.4	0.1
<b>Total</b>	<b>0</b>	<b>0</b>	<b>96.5</b>	<b>339.6</b>

## Exploration and Development Activities

The following table outlines the number of oil, gas, service and dry holes drilled in the fiscal year ending December 31, 2018.

	Exploration Wells		Development Wells	
	Gross	Net	Gross	Net
<b>Colombia</b>				
Oil	6	5.6	101	68.2
Gas	0	0	0	0
Standing	0	0	0	0
Dry Holes	1	0.6	2	1.2
Total Completed	7	6.2	103	69.4
<b>Peru</b>				
Oil	0	0	0	0
Gas	0	0	0	0
Standing	0	0	0	0
Dry Holes	1	0.5	0	0
Total Completed	1	0.5	0	0

The Company has currently budgeted between approximately \$325 to \$375 million for its 2019 capital program in Colombia and Peru. The Company plans to direct approximately \$205 to \$230 million on maintenance and development drilling. Additionally, approximately \$65 to \$75 million will be allocated to facilities and infrastructure expenditures targeting producing fields and fields under development, approximately \$5 to \$10 million will be allocated administrative assets and other minor projects and approximately \$50 to \$60 million will be allocated to exploration expenditures.

In Colombia, the Company drilled seven exploratory wells, two in the Quifa block (Jaspe-6D, Jaspe 7D), three in the Guatiquia block (Coralillo-3, Coralillo-1, Alligator-2), one in Sabanero block (Chaman 2D) and one in Llanos 25 (Acorazado-1). Six of the seven exploratory wells were completed and tested successfully. In Peru, the Company drilled one exploratory well in Z-1 block (DS-1X Delfin Sur) which was subsequently plugged and abandoned.

## Production Estimates

The following table sets forth the volume of production estimated for the fiscal year 2019 as reflected in the estimates of gross proved reserves and gross probable reserves:

	Light and Medium Crude Oil (bbl/d)	Heavy Crude Oil (bbl/d)	Natural Gas (Mcf/d)	Natural Gas Liquids (bbl/d)	Associated and Non-Associated Gas (Mcf/d)	Total Oil Equivalent (boe/d - 6:1 conversion)	Total Oil Equivalent (boe/d )
<b>Others Colombia</b>							
Gross Proved	13,835	2,668	16,808	32	346	19,395	19,545
Gross Proved Plus Probable	16,743	2,923	18,081	34	380	22,776	22,938
<b>Guatiquia Block</b>							
Gross Proved	13,510	0	0	108	0	13,618	13,618
Gross Proved Plus Probable	15,230	0	0	121		15,351	15,351
<b>Quifa Block</b>							
Gross Proved	0	29,751	0	0	0	29,751	29,751
Gross Proved Plus Probable	0	31,111	0	0	0	31,111	31,111
<b>Peru</b>							
Gross Proved	9,534	0	0	0	0	9,534	9,534
Gross Proved Plus Probable	10,559	0	0	0	0	10,559	10,559
<b>Total Gross Proved</b>	<b>36,879</b>	<b>32,419</b>	<b>16,808</b>	<b>141</b>	<b>346</b>	<b>72,299</b>	<b>72,449</b>
<b>Total Gross Proved Plus Probable</b>	<b>42,532</b>	<b>34,034</b>	<b>18,081</b>	<b>154</b>	<b>380</b>	<b>79,797</b>	<b>79,959</b>

## Production History

The following table sets forth certain information in respect of production, product prices received, royalties, production costs and netbacks received by the Company for each quarter of the fiscal year ending December 31, 2018.

	Three Months Ended December 31		Three Months Ended September 30		Three Months Ended June 30		Three Months Ended March 31		Year Ended December 2018	
<b>OPERATING RESULTS <sup>(5)</sup></b>	<b>Colombia</b>	<b>Peru</b>	<b>Colombia</b>	<b>Peru</b>	<b>Colombia</b>	<b>Peru</b>	<b>Colombia</b>	<b>Peru</b>	<b>Colombia</b>	<b>Peru</b>
<b>Average Daily Production <sup>(1)</sup></b>										
Heavy Crude Oil (bbl/d)	29,844		28,534		28,293		28,876		28,888	
Light and Medium Crude Oil (bbl/d)	29,843	8,974	29,121	4,616	30,815	8,414	29,370	10,737	29,787	8,171
Natural Gas (boe/d)	3,263		4,122		4,504		4,875		4,186	
<b>Realization Sales Prices <sup>(2)(6)</sup></b>										
Heavy Crude Oil (\$/bbl)	56.00		65.29		66.24		58.21		62.41	
Light and Medium Crude Oil (\$/bbl)	62.86	60.22	71.38	71.29	71.18	67.33	63.74	61.95	67.97	63.25
Natural Gas (\$/boe)	26.42		25.26		23.65		23.72		24.61	
<b>Royalties <sup>(3)(6)</sup></b>										
Heavy Crude Oil (\$/bbl)	0.15		0.08						0.05	
Light and Medium Crude Oil (\$/bbl)	6.45	0.33	5.23	0.99	4.72	0.63	3.69	0.38	5.01	0.48
Natural Gas (\$/boe)	1.66		1.49		1.39		1.41		1.47	
<b>Production Costs <sup>(4)(6)</sup></b>										
Heavy Crude Oil (\$/bbl)	25.49		26.08		22.28		23.83		24.44	
Light & Medium Crude Oil (\$/bbl)	23.85	39.18	26.46	65.73	26.24	32.66	24.41	29.44	25.24	38.13
Natural Gas (\$/boe)	7.60		5.56		5.24		4.22		5.49	
<b>Netback Received <sup>(6)</sup></b>										
Heavy Crude Oil (\$/bbl)	30.36		39.13		43.96		34.38		37.92	
Light and Medium Crude Oil (\$/bbl)	32.56	20.71	39.69	4.57	40.22	34.04	35.64	32.13	37.72	24.64
Natural Gas (\$/boe)	17.16		18.21		17.02		18.09		17.65	

### Notes:

- (1) Represents working interest production before royalties, and total volumes produced from service contracts.
- (2) Includes diluent cost. However, revenue from infrastructure assets and risk management contracts losses were not included. The realized loss on risk management contracts for 2018 was \$193.0 million or \$9.13/boe.
- (3) Royalties, which represents high-price participation payments, cash royalties and royalty amounts paid to previous owners of certain blocks in Colombia was calculated over barrels sold.
- (4) Includes production costs and transportation costs (including take-or-pay contracts mainly allocated to heavy oil). Production costs contained herein do not include fees paid on suspended capacity and costs related to infrastructure assets. Production costs per barrel are calculated over working interest production before royalties, and total volumes produced from service contracts. Transportation costs per barrel over net production after royalties. For further information regarding the netback calculation, see the Company's Management Discussion & Analysis for the year ended December 31, 2018 dated March 13, 2019 available on SEDAR [www.sedar.com](http://www.sedar.com).
- (5) Natural gas liquids have not been presented separately because production for such product type was immaterial to the Company for the year ended December 31, 2018.
- (6) Revenues, royalties and costs contained in the above table are prepared by management for each product type. Because they are prepared by product type, these figures are different from the Company's disclosed netback information contained in the Company's Management's Discussion and Analysis for the year ended December 31, 2018.

The following table outlines for each important field, the Company's production volumes for the fiscal year ending December 31, 2018, for each product type:

	Heavy Crude Oil (bbl/d)	Light Crude Oil and Medium Crude Oil (bbl/d)	Conventional Natural Gas (boe/d)
<b>Colombia</b>			
Quifa Southwest	26,173	0	0
Cajua	1,374	0	0
La Creciente	0	0	4,067
Cubiro	0	3,559	0
Cravoviejo	0	2,273	0
Guatiquia	0	15,346	0
Casimena	0	1,595	0
Corcel	0	1,830	0
Arrendajo	0	1,149	0
CPE-6	937	0	0
<b>Peru</b>			
Block Z-1	0	778	0
Block 192	0	7,393	0
<b>Total</b>	<b>28,484</b>	<b>33,923</b>	<b>4,067</b>

**Note:** Natural gas liquids have not been presented separately because production for such product type was immaterial to the Company for the year ended December 31, 2018.