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The description of the material Argentine environmental regulations is only a summary and does not purport to be a comprehensive description of the Argentine environmental regulatory framework. The summary is based upon Argentine regulations related to environmental issues as in effect on the date of this annual report, and such regulations are subject to change.

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Holders of exploration permits and production concessions are subject to federal, provincial and municipal taxes and regular customs duties on imports. The Hydrocarbons Law grants such holders a legal guarantee against new taxes and certain tax increases at the provincial and municipal levels, except in the case of a general increase in taxes.

Pursuant to Sections 57 and 58 of the Hydrocarbons Law, holders of exploration permits and production concessions must pay an annual surface fee that is based on acreage of each block and which varies depending on the phase of the operation, i.e., exploration or production, and in the case of the former, depending on the relevant period of the exploration permit. On October 17, 2007, the Official Gazette published Executive Decree No. 1,454/07, which significantly increased the amount of exploration and production surface fees expressed in Argentine pesos that are payable to the different jurisdictions where the hydrocarbon fields are located. Law No. 27,007 published in the Official Gazette on October 31, 2014 updated amounts that must be paid pursuant to Sections 57 and 58 of the Hydrocarbons Law. See "-Exploration and Production."

In addition, "net profit" (as defined in the Hydrocarbons Law) of holders of permits, or concessions accruing from activity as such holders, might be subject to the application of a special 55% income tax. This tax has never been applied. Each permit or concession granted to an entity other than us has provided that the holder thereof is subject instead to the general Argentine tax regime, and a decree of the National Executive Office provides that we are also subject to the general Argentine tax regime.

Following the introduction of market prices for downstream petroleum products in connection with the deregulation of the petroleum industry, Law No. 23,966 established a volume-based tax on transfers of certain types of fuel, replacing the prior regime, which was based on the regulated price. Law No. 25,745 modified, effective as of August 2003, the mechanism for calculating the tax, replacing the old fixed-value per liter according to the type of fuel for a percentage to apply to the sales price, maintaining the old fixed value as the minimum tax. Through Laws No. 26,028 and 26,181, new taxes on diesel and gasolines sales have been established.

Reduction in tax rates for fuels

On December 30, 2014, Decree No. 2579/2014 set forth a reduction in fuel taxes established by Laws No. 23,966 and 26,181 with respect to diesel and unleaded gasoline products. The reductions took effect on January 1, 2015.

Export taxes

In 2002, the Argentine government began to implement customs duties on the export of hydrocarbons. Export tax rates were increased on crude oil to 20%, on butane, methane and LPG to 20% and on gasoline and diesel oil to 5%. In May 2004, Resolution No. 337/04 of the Ministry of Economy increased export duties on crude oil to 25%. These export tax rates were increased again in 2004, when the Ministry of Economy issued Resolution No. 532/04, establishing a progressive scheme of export duties for crude oil, with rates ranging from 25% to 45%, depending on the quotation of the WTI reference price at the time of the exportation. In addition, in May 2004, pursuant to Resolution No. 645/04 of the Ministry of Economy, an export duty on natural gas and NGLs was established at a rate of 20%. The export duty on natural gas was increased again in July 2006, when the Ministry of Economy increased the rate to 45% and instructed the Customs General Administration to apply the price fixed by the framework agreement between Argentina and Bolivia as the base price to which to apply the new tax rate, irrespective of the actual sales price. In addition, on October 10, 2006, the Ministry of Economy imposed prevalent export duties on exports from the Tierra del Fuego province, which were previously exempted from taxes. Moreover, in May 2007, the Ministry of Economy increased to 25% the export duty on butane, propane and LPG.

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Resolution No. 394/07 of the Ministry of Economy, effective as of November 16, 2007, increased export duties on Argentine oil exports (as defined by the regulator) on crude oil and other crude derivatives products. The new regime provides that when the WTI international price exceeded the reference price, which was fixed at U.S.\$60.99/barrel, the producer should be allowed to collect at U.S.\$42/barrel, with the remainder being withheld by the Argentine government as an export tax. If the WTI international price was under the reference price but over U.S.\$45/barrel, a 45% withholding rate would apply. If such price was under U.S.\$45/barrel, the applicable export tax was to be determined by the Argentine government within a term of 90 business days. Through Resolution No. 1/2013 of the Ministry of Economy and Public Finances, Resolution No. 394/07 was amended, increasing cutoff values from U.S.\$42/barrel to U.S.\$70/barrel, and the reference price from U.S.\$60.90 to U.S.\$80 for crude oil. This means that when the international price of crude oil was over U.S.\$80/barrel, the local producer would be allowed to collect at U.S.\$70/barrel, with the remainder being withheld by the Argentine government.

However, on December 31, 2014, Resolution No. 1077/2014 was published in the Official Gazette and repealed Resolution No. 394/07, as amended, setting forth a new withholding program based on the "International Price." The International Price is calculated based on the Brent value for the applicable month less U.S.\$8 per barrel. The new program establishes a 1% general nominal withholding applicable to all products covered by the resolution, including crude oil, diesel, gasoline and lubricants, as well as other petroleum products, to the extent that the International Price is below U.S.\$71 per barrel. The resolution further provides an increasing variable withholding rate on crude oil exports to the extent the International Price exceeds U.S.\$71 per barrel. As a result, the maximum price a producer may charge is approximately U.S.\$70 per barrel exported, depending on the quality of crude sold. The resolution also sets forth increasing withholding rates for exports of diesel, gasoline, lubricants and other petroleum derivatives when the International Price exceeds U.S.\$71 per barrel at rates that allow the producer to receive a portion of the price increase.

Resolution No. 127/08 of the Ministry of Economy increased export duties applicable to natural gas exports from 45% to 100%, mandating a valuation basis for the calculation of the duty as the highest price established in any contract of any Argentine importer for the import of gas (abandoning the previously applicable reference price set by the framework agreement between Argentina and Bolivia mentioned above). Resolution No. 127/08 provides, with respect to LPG products (including butane, propane and blends thereof), that if the international price of the relevant LPG product, as reported daily by the Argentine Secretariat of Energy, is under the reference price established for such product in the resolution (U.S.\$338/cm for propane, U.S.\$393/cm for butane and U.S.\$363/cm for blends of the two), the applicable export duty for such product will be 45%. If the international price exceeds the reference price, the producer shall be allowed to collect the maximum amount established by the resolution for the relevant product (U.S.\$233/cm for propane, U.S.\$271/cm for butane and U.S.\$250/cm for blends of the two), with the remainder being withheld by the Argentine government as an export tax.

Export duties on hydrocarbons were established by Law No. 25,561 of Public Emergency, for a term of five years. This term was extended by five more years by Law No. 26,732. The second extension expired on January 7, 2017, and since its term has not been extended, it ceased to be in force. As a result, export duties on hydrocarbons are no longer imposed.

We cannot give any assurances as to future levels of export taxes.

Repatriation of Foreign Currency

Executive Decree No. 1,589/89, relating to the deregulation of the upstream oil industry, allowed us and other companies engaged in oil and gas production activities in Argentina to freely sell and dispose of the hydrocarbons we produce. Additionally, under Decree No. 1,589/89, we and other oil producers were entitled to keep up to 70% of foreign currency proceeds we received from crude oil and gas export sales outside of Argentina, but were required to repatriate the remaining 30% through the exchange markets of Argentina.

Decree No. 1722/2011 of October 26, 2011 requires all oil and gas companies (including YPF), among other entities, to repatriate 100% of their foreign currency export receivables. Although the mandatory requirement imposed by Decree No. 1722/2011 remains in force and effect, its practical application was essentially relaxed during 2016, since the term required for the repatriation of foreign currency export receivables was significantly extended, from 30 calendar days as of December 2015, up to 5 years on December 2016, through Argentine Secretariat of Commerce Resolutions No. 91/2016 and 242/2016. More recently, the Argentine Secretariat of Commerce issued Resolution No. 47-E/2017 in January 2017, which extended such term up to 10 years.