

**OIL COMPANY WINTERSHALL WILL DEVELOP A "PILOT" IN UNCONVENTIONAL WELLS IN VACA MUERTA**

The German oil company Wintershall will begin next March to develop a pilot in unconventional hydrocarbon wells in Vaca Muerta, Neuquén, associated with the province company G & P. The pilot project will start on March 1, 2015 in Aguada Federal to verify if both companies will invest another 3,000 million dollars in a program of joint development and sharing risks.

These are marginal areas without production and exploration, so the curve of knowledge is going to take time, but if materialize it will become the second largest pilot the province. The German oil company signed an investment agreement for over 3,000 million, in January this year. The exploratory stage includes Aguada Federal in the Vaca Muerta formation with six wells (two vertical and four horizontal) with an investment of 110 million dollars, while the development of the pilots is 20 unconventional wells.

The site will be operated by Wintershall in an area of 97 square kilometers on the geological Vaca Muerta formation. If the pilot results are satisfactory, the total development project includes the completion of 320 wells for 10 years with an investment of 3,335 million dollars. G & P has 50% of the joint venture with the German group.

It is estimated that this year the number of wells drilled in Vaca Muerta will reach 615, including 315 which would be unconventional.

**YPF INVESTED \$ 130 MILLION IN THE LARGEST SEISMIC SURVEY OF THE PAST 10 YEARS**

The country's largest oil company launched on October 1 a bidding process to record 4500 square kilometers of seismic in three dimensions (3D) in the Neuquén and Golfo San Jorge. It is the largest seismic campaign of the last 10 years.

There are seven international companies involved and a local (UGA Seismic), They have even visited areas in Neuquén, Mendoza and the Gulf where it will work, The timeline handled expects to begin tasks seismic recording in January. The investment budgeted for the entire project is around U\$S 130 million. The design of the 3D seismic depends on the purpose and what you want to do with that record, from geological features to a structural map. They will operate, simultaneously, two teams of seismic. One in each basin.

The price of 3D seismic data depends on the amount of points released by km<sup>2</sup>. Internationally, the registration of a km<sup>2</sup> ranges between 25,000 and 50,000 dollars. In Uruguay, YPF acquired 2000 km<sup>2</sup> of 3D seismic in the sea with an investment of U\$S 30 million.

The acquisition of seismic surveys is the prelude to the drilling of exploratory wells, allowing to determine the areas of greatest interest and geological potential.

*For further information you may contact: [argentinechamber@argentinechamber.org](mailto:argentinechamber@argentinechamber.org)*

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