

PRESS RELEASE

# Ecopetrol receives three patents for innovation

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Piedecuesta, Santander, July 11, 2022.

The Superintendence of Industry and Commerce granted three new patents to Ecopetrol, which represent a scientific and technological advance in the monitoring of production waters and the traditional hydrocarbon business.

The inventions, developed under an alliance with three actors from the business and academic sectors of the departments of Santander and Cauca, are called:

1. Sensor system for the detection and measurement of suspended solids in production water.
2. Devices and their method of operation for the measurement and analysis of the flow of face and shear collapses for drilling wells.
3. Equipment and method to determine the volumetric shrinkage factor of crude oil mixtures with extra light diluents up to 135° API

## The practical application of these innovations

The first patent is a contribution that allows monitoring the quality of production waters.

From this system it is possible to reduce the impact due to the effect on discharges in environmental environments. Likewise, this measurement of variables, generated in partnership with the company JPT Consulting and Services SAS, makes it possible to use the water produced in the agro-industrial sector.

In the second invention, developed with the Santander Metalworking Association, its application is aimed at creating a device to generate an early warning in real time in the event of a possible collapse inside an oil well.

Thanks to these automated measurements, the level of risk in operations is reduced.

Finally, the third innovation is part of a collective effort with the Universidad Pontificia Bolivariana (UPB), Piedecuesta campus, to develop a technological solution that improves the decrease in volume obtained by mixing heavy and extra-heavy crude oils with light diluents during transportation in pipelines.

"Thanks to the granting of these new patents, Ecopetrol continues to bet on its strategy of innovation, science and technology to become a leading company in sustainability, where there is a prevalence for the care of human life and the conservation of the environment.

"Similarly, without neglecting the traditional hydrocarbon business, it is possible to develop a team and a method that optimizes resources and facilitates their transportation through the transfer lines," explained Luz Angela Novoa, director of the Center for Innovation and Technology (ICP), from Ecopetrol.

With these recognitions, which are valid for the next 20 years, from July 2018 to December 2019, the Company accumulates a total of 114 granted patents in Colombia and abroad, of which six were

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