

# **Xcalibur Smart Mapping Colombia Soars to New Heights with ANH Projects:**

Paving the way for green energy

Xcalibur Smart Mapping

We're thrilled to announce the successful completion of three challenging airborne geophysical projects for the *Agencia Nacional de Hidrocarburos* (ANH) in Colombia. These projects aren't just about data acquisition; they underscore the **ANH's forward-thinking commitment to exploring new green energy alternatives** and our pivotal role in supporting Colombia's energy transition. Executed by our local fleet and dedicated Colombian team, these ventures stand as a testament to our cutting-edge capabilities in resource exploration.

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### **A Collaborative Triumph: Global Expertise, Local Execution Meets Energy Transition Goals**

These complex projects were a testament to our global collaborative spirit. While our **Colombian team** spearheaded the operations with exceptional skill, they received invaluable support from our business units in **Canada**, the **Global Headquarters in Madrid**, and **South Africa**. The joint venture between our Colombia and South Africa business units further solidified this international synergy, forming **Xcalibur Smart Mapping Colombia**. This strategic move perfectly aligned with the ANH tender requirements and their vision for a more sustainable energy future. Our ability to assemble such a robust, multinational team highlights our **extensive capability to respond swiftly and effectively to complex tenders and technical approaches**.

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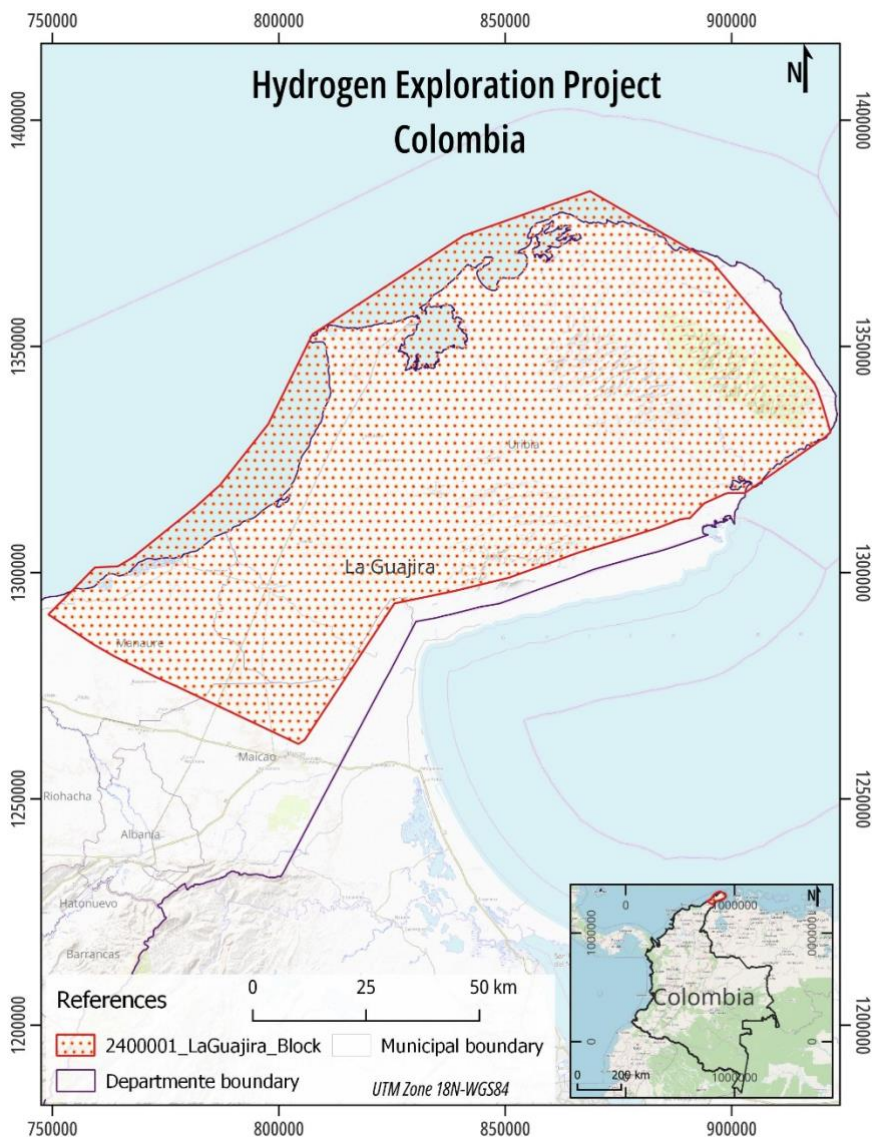
### **Unearthing Colombia's Green Potential: Natural Hydrogen and Geothermal Exploration**

Our recent campaigns focused on two critical areas of future energy exploration: natural hydrogen and geothermal resources, both vital components of the global energy transition.

#### **Pioneering Natural Hydrogen Exploration in La Guajira: A Bold Step for Colombia**

In the northern reaches of Colombia, specifically **La Guajira Peninsula**, our team successfully completed an airborne geophysical survey focused on **natural hydrogen exploration**. Utilizing a **Piper Navajo** aircraft, we deployed **magnetics and radiometrics** to identify geological formations, specifically **serpentinized ophiolites**, known for their potential to generate natural hydrogen. This represents a significant step for the ANH in identifying **new, environmentally friendly energy sources**.

This project presented unique operational challenges, including consistently high temperatures and gusting winds. However, our experienced team navigated these conditions safely and efficiently, demonstrating our **unwavering commitment to operational excellence despite adverse conditions**. The processed and interpreted data revealed promising areas with elevated natural hydrogen potential, providing crucial information for the ANH to advance their tender processes. This project underscores Colombia's emerging role as a key player in natural hydrogen exploration within the Latin American region, and we are proud to be their partner in this pioneering effort.



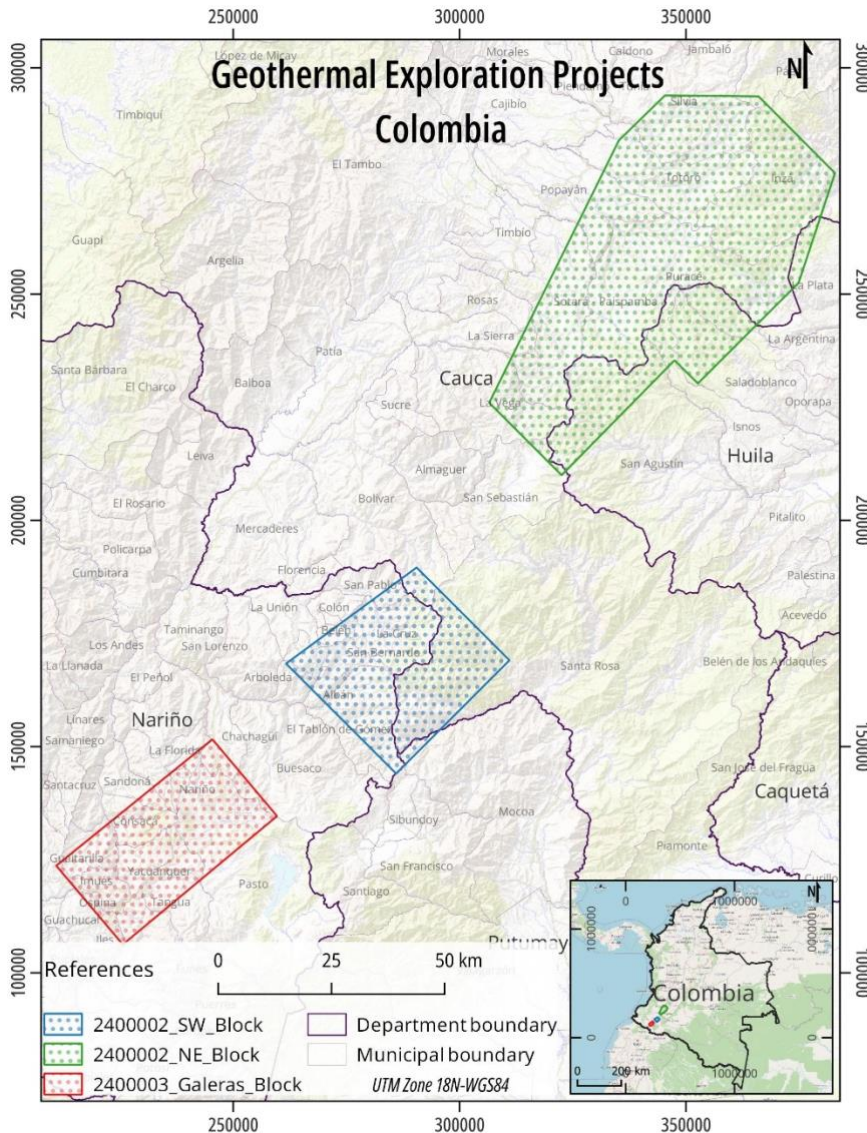
Location Map of the La Guajira Block. Hydrogen Exploration Project in Colombia

### Charting Geothermal Resources in the Southern Andes: Harnessing Earth's Heat

Two additional projects were conducted in the breathtaking yet challenging southern Colombian Andes, spanning the Provinces of **Cauca** and **Nariño**. These surveys were integral to **geothermal exploration** efforts over-active volcanic regions near the provinces capitals of Popayán and Pasto, another critical frontier in **green energy development**.

Our **Piper Cheyenne** aircraft, equipped with a **Scintrex airborne magnetometer** and a **GT2A gravimeter**, acquired high-resolution data along lines spaced 500 meters perpendicular to the main regional geological trend. These projects pushed the boundaries of airborne geophysics, with flight elevations often exceeding 5,000 meters (plus a 500-meter drape). The convergence of Pacific and Amazonian weather patterns in this region frequently resulted in extensive cloud cover, adding to the operational complexity and extending the acquisition timeline. These were formidable challenges, yet our team's **technical approaches and adaptability ensured success**. Our dedicated ground team meticulously organized the aircraft and aerodrome, creating conditions allowing the gravimeter system to operate continuously, minimizing the

potential for misconfiguration. Our expert team's subsequent processing and interpretation of the data further solidified the success of these challenging endeavours.



Location Map of the NE, SW, and Galeras Blocks. Geothermal Exploration Projects in Colombia

## Client Endorsement: A Testament to Our Role as a Loyal Geoscientific Partner

We are proud to report that all project data has been delivered to the ANH, who expressed immense satisfaction with the **impressive quality of the data, the outstanding interpretation, and our company's overall technical and management capability**. This positive feedback directly reflects the hard work and dedication of everyone involved and affirms our position as a **loyal airborne geoscientific expert in energy transition exploration**. We are ready to respond to any challenge and provide technical solutions to succeed as a trusted partner.

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### Special Recognition

Our deepest gratitude goes to the entire **Colombian Team** for their unwavering commitment and exceptional execution.

**Our Colombian management team:** Andres Mor, Erika Santanilla, Iván Fitata, and Cecilia Pardo

**Our Colombian Crew:** Andrés Pinzón, Javier Patiño, Hernan Obando, Andrés Hernandez, Gerardo Guerrero, Mariano Carreño, Diego Mendez, and Pedro Socha.

**Our Colombia Data Processing Team:** Omar Pinto and Virginia Reinoso

**External Contractors:** Daniela Hernández, Jenny Garcia-Lobo, Leonardo Malaver and Hernan Ugalde.

We also extend special recognition to **Simon Bosh** (South Africa BU), **Adriana Mantilla-Pimiento** (Madrid Headquarters), and **Marco Nieto** (Canada BU) for their invaluable support and collaboration.

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These projects highlight our technical prowess and reinforce our position as a leading partner in advancing energy exploration in Colombia and beyond. We look forward to continuing our impactful work and contributing to the responsible development of natural resources, supporting our clients' green energy aspirations every step of the way.