



AI and IAGEN Application Use Case

Analysis and motivation on extraction sites

Report Writing in Vaca Muerta, Neuquén

Executive Summary – Generative AI Application for Report Writing in Dead Cow

This executive summary presents an innovative application of generative artificial intelligence (IAGEN) in the strategic and operational reporting sector.

within the oil and gas industry, specifically in the Vaca Muerta region.

This solution represents a significant opportunity to strengthen decision-making decisions, optimize processes and reduce costs in a highly competitive environment.

The report classifies the use case based on four criteria:

- 1) By main resource: Oil (main) and gas (secondary).
- 2) By activity: Information management and decision making.
- 3) By technology: Generative AI models such as ChatGPT, DALL-E, Random Forest Survival, among others.
- 4) By strategic impact: Improvement in strategic decision making and in the data analysis.

1. Specific opportunities for using AI and IAGEN in the sector.

Generative AI application enables automation of custom report generation, analysis of seismic, drilling and maintenance data in real time

real, detect anomalies, predict equipment failures, and generate textual and

image for reports and presentations. Monitoring systems are also highlighted.
smart as the Digital Well Assistant.

2. Highlighted benefits.

Among the main benefits are greater efficiency and productivity in
Report writing, reduced operating costs, improved safety
through predictive and real-time analytics, and a significant contribution to the
environmental sustainability of the sector.

3. Application of AI.

AI is implemented through generative models that automate key processes:
from data collection and analysis to the generation of actionable reports.
These solutions allow you to anticipate failures, optimize operations and facilitate
decisions based on accurate and up-to-date information.

4. Proposed AI agent and its function.

The report proposes an agentic flow of generative artificial intelligence, composed of
five phases: data collection, intelligent processing, model generation
predictive, scenario assessment, and production of actionable reports. This
agent's main function is to optimize strategic decision making,
through complete, timely, and contextualized information. Its main benefit is
transform reporting into a tool of operational value and
competitive in real time.

5. Conclusion.

Generative AI has the potential to revolutionize the energy industry in Vaca
Dead, especially in report writing, by providing efficiency, accuracy and
strategic vision. Despite challenges such as bias, privacy and ethical governance, its
Responsible implementation can turn Vaca Muerta into a technological hub

key in Latin America, integrating energy, innovation and sustainable development.