

ADA AI™ LOGGING PREDICTION



ADA AI™ Digital Ecosystem is the first integrated cloud-based solution to offer physics-based artificial intelligence (AI) workflows for upstream Drilling, Completions, and Production.

ADA AI™ is an open-platform structure based on three cutting-edge offerings:

- ADA AI™ DRILLING SERIES
- ADA AI™ COMPLETIONS SERIES
- ADA AI™ PRODUCTION SERIES

ADA AI™ Logging Prediction is a part of the Drilling Series module that utilizes predict ahead, real time logging curves through the incorporation of AI models. As part of the ADA AI™ Digital Ecosystem, Logging Prediction is compatible and linkable with other ADA AI™ Drilling Series modules, allowing the end user to optimize operations, reduce cost and improve operation sustainability.

The ADA AI™ Logging Prediction module predicts real time, Quad-combo curves (density, compressional slowness, resistivity, and neutron porosity); the technology leverages operational and geological data inputs as well as offset logs, to create a specific customer-centric, adaptive AI models, capable to be run in any desired well.

By using adaptive models, the learning capacity increases as well as the accuracy of the predictions, when more detailed inputs and calibration points are incorporated. This allows the replication and repeatability of the application with the same AI model, in different environments, with minimum adjustment and retraining on the model. Enovate Upstream has developed a proprietary workflow that assures continuous improvement of the AI model performance based on automatic and continuous updating and learning of the model while the dashboard is acquiring real time data, thus providing more reliable outputs on every run.

ADA AI™ Logging Prediction, as part of a Digital Ecosystem, can be implemented in any project through our cloud based access. This reduces the requirements for logistics associated with conventional logging techniques and eliminates the risks associated with radioactive sources and lithium batteries, leading to a reduced carbon footprint at the wellsite. In the same way, it can optimize drilling operations as a backup application for challenging data acquisition programs.

ADA AI™ Logging Prediction has unlimited opportunities to improve operations, reduce costs and carbon footprint in any operation. With reliable and specific AI models for each customer, this technology is capable to cover/backup any data acquisition program that the customer has for their project.

FEATURES

- Works in a cloud-based platform with optimal security, speed, and accessibility.
- Operates in an optimal and secure environment
- Provides real-time data
- Predicts the Quad-combo curves (at the bit and ahead)
- Predict ahead formation tops
- Provides data quality indicator
- Automatic training and updating of the model to improve predict-ahead capability

