INTELLIGENT APPLICATION SOLUTION:
Exploration & Production Drilling Operations

ClearDox

ClearDox **Exploration & Production Drilling Operations Application** is one in a suite of web-based intelligent applications designed to enrich data and automate commodity operations processes, through the digitization and reconciliation of multiple sources of unstructured and semi-structured data.

ClearDox applications are customized with AI models and data driven workflows to operate in synergy with underlying systems of record — adding clarity, context and control to the data surrounding trading, operations, settlement and reporting activities.

Solution Overview

The ClearDox **E&P Drilling Ops Application** is designed to enhance operational efficiency, streamline transaction actualization, and improve visibility and control over the large volume of data generated in the well extraction process.

Ensuring accurate and consistent data across various well sites and extraction processes is a significant challenge. Inconsistent or incomplete data can lead to erroneous decisions and inefficient operations.

Empower Operations Analysts with an intelligent application that provides interoperability and standardization across well data formats and protocols, enhances data accuracy and system throughput, and improves overall operational transparency with the use of advanced AI technologies.

Intelligent Application Key Features

Intelligent Data Driven Workflow: Intelligently automate the processing, reconciliation, and reporting of daily movements of physical commodities, eliminating the need for manual data entry, and reducing the risk of errors associated with human intervention.

AI Models: Our proprietary approach to applying best in class technology excels in extracting and matching quality and quantity information from various sources with unparalleled accuracy and efficiency.

Multi-Source Reconciliation Engine: Reconcile external documents from multiple sources, with the digital data extracted from drilling reports providing transparency to production performance — and other key metrics critical to your business processes.

Comprehensive Tracking and Reporting: ClearDox's robust and intuitive business reporting capability makes it easy to track, reconcile and report inventory movements on a daily, weekly, and monthly basis.

Enhanced Visibility & Control: Users can easily amend and authorize amendments to ClearDox-generated digital movement data, sending accurate volume assessments downstream to the system of record. This ensures real-time tracking and reporting, facilitating cross-functional risk management and decision-making.

Solution Components

Documents: Propriety approach to AI model application and maintenance to extract relevant information from supporting documents, even when embedded in blocks of plain text. Supported Document Types include:

- Daily Drilling & Cost Summary
- Daily Drilling Report

Data Extractions: Universal Drilling Report

- Counterparty
- Field Name
- Contractor Name
- Daily Cost
- Total Hours
- Report Date
- Wellbore Depth
- Time From
- Cumulative Cost
- Cost Code
- Report Number
- Present Operation
- Time To
- Work Performed
- AFE Number
- Well Name
- Planned Operation
- Hour per Activity
- API Number
- AFE Amount

Automations: E&P Drilling Dashboard to support data driven workflow

- *Integration:* System of record for parcel actualization and cost recording
- *Workflow:* Human in the loop workflow for document & reconciliation status management
- *Reconciliation:* Multi-way reconciliation built on robust system configured pairing and matching logic with embedded workflow to accept and reject
- *Approvals:* embedded document status to manage throughput and approval for digitization and document parsing
- *Communication:* in-app commenting for online collaboration

Reporting:

- Document Status Dashboard
- Full audit capabilities on document, data, reconciliation, commenting and associated workflows

Storage:

- Systematic linking of documents and records for file organization, storage, and retrieval
- Scalable infrastructure to respond dynamically to storage requirements

Integrations: Flexible options to integrate data

- *Inbound:* Email, API, SFTP, Web Scraping
- *Outbound:* REST API, Event Hub

Deployment, Security & Compliance:

- ClearDox SaaS environment operates on AWS, GCP, and Microsoft environments
- Multiple deployment options including multi-tenant, private cloud, and on-premises
- Provides data encryption in transit and at rest
- Multi-factor authentication and support for SSO authentication
- SOC2 Type 1 Compliance