Avocet Field Deployment to enhance Collaboration and Production Surveillance

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September 2019
Business Case

Avocet is used since 2015 as the Allocation engine to generate official production volumes for Gathering Centers (GCs) and Oil Wells.

Field users collecting production data manually using various spreadsheets and finally capture data manually using Finder screens.

This situation has shown multiple issues typical for solutions built on multiple silos of data (Finder, ALMS, LIMS, P2ES, PPMS, Excel, ...).

Each time a data is needed in one system, it is entered manually after reading it from other system.

This Situation leads into poor decision making as decisions are based on low quality data.
Business Objectives

Improve data collection & QC/QA
- Streamline Data Capture (PPMS/POIS/MIS)
- Automated data validation and approval
- Generate daily field reports
- Uniqueness and integrity of operational data
- Simplified workflows for field/office personnel

Improve collaboration between teams
- Integration with KOC existing Systems
- Cross department/system alerts & notifications

Improve and optimize production operations workflows
- Role specific web dashboards
- Automated workflows
Overall Dataflow
Supplier/Input – Process - Output/Consumers (SIPOC)

**Information Sources**
- Connected & disconnected
  - Dashboard for Operations Avocet Mobile
- Database and systems
  - LIMS (Lab Analysis)
  - P2ES (Gas Volumes)
  - OTS (Activities)
  - KwIDF...
- File imports
  - PGOR Tests
  - SBHP/FBHP
  - Operational data
  - Field data
- SCADA and Data Historians (PPMS, POIS, MIS)
  - Well Data
  - Equipment Data
  - Meters
  - Facilities
  - Storage
  - Pipelines

**Wells Data QC/QA**
- Data Validation
- Data cleansing...

**Daily, Monthly and yearly Allocations**
- Oil, Water and Gas

**Shortfall Management (losses)**
- PE&P Loss Classification

**Reports**
- Operational, field and other basic reports

**Collection, aggregation and storage**

**Production Performance Analysis**
- KPI
- Production and Operational workflows

**Platform provided capability**

**Integration with Production Engineering applications:**
- Performance Curves and Well rate estimation
- RE Simulation

**Allocated volumes used by**
- Planning,
- Simulation,
- Forecasting,
- Optimization,
- Revenue allocation

**Surveillance & Operational dashboards**

**KOC corporate DB**

**Information Consumers**

**Production Operations Management System**
# Deliverables: Field Operations Dashboard

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Avocet Production Platform Quick Wins

- Improved production data quality
- Save time on data collection, processing and sharing
- Integration and Automation
- Standardization and Adherence to corporate governance rules
- KPIs to measure performance
- Facilitate intra teams communication
- Improved knowledge capture
- Reduced production losses
- Basis for future production operations optimization
Thank you!!