

## WORKFLOWS

With an exhaustive library of existing workflows and pre-configured data presentations based on years of best practices and business intelligence, OVS can pilot an asset optimization project in short order regardless of the asset type, the number of wells, or the type of databases in place. Since OVS does not replicate data into an OVS proprietary database, implementations do not require a database migration to get started.

### Well Processes

- Well test Validation (PROSPER, Pipesim, Wellflo)
- Model fine-tuning, Ever-green Models (PROSPER, Pipesim, Wellflo)
- Quicklook Analysis (PROSPER, Pipesim)
- Stability Maps (Alhanati Calculation, Alhanati in PROSPER)
- General Nodal Analysis (PROSPER, Pipesim, Wellflo)
- VLP Generation (PROSPER/GAP)
- Hydraulic tables for Eclipse and Athos
- Multi-rate Performance curve generation (no models required)
- Optimization by Well (PROSPER, Pipesim, Wellflo)
- Virtual Metering
- Choke Performance Validation (PROSPER, Pipesim)
- DCA for Oil Wells

### Network Processes

- GAP & Pipesim-Net
  - Network Adjust / fine-tuning (Automatic)
  - Network Adjust / fine-tuning (Manual)
  - Network Optimization
- Gas Balance
- Production Allocation



### OVS Model Manager

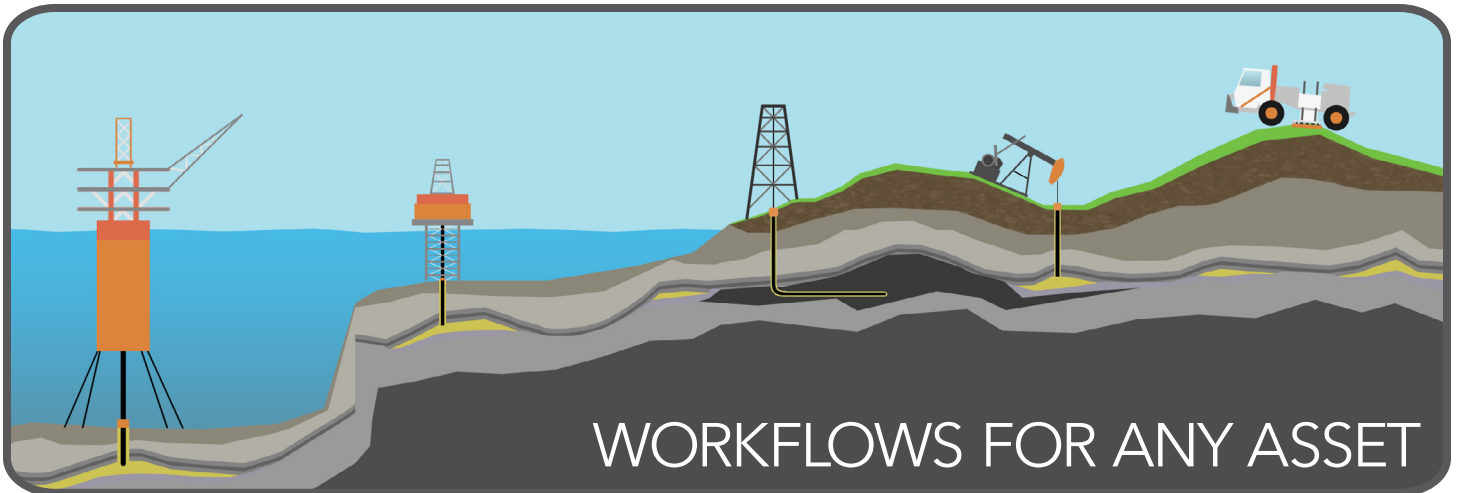
- Vendor and version independent allowing clients to manage engineering models from the best of breed modeling packages of-their-choice through one single application.
- Provides an audit trail of changes and versioning control.
- A secure, easy and efficient way to manage the company's official model from multiple engineering modeling packages.
- Full integration with OVS Workflows or any other external application.

### ESP Surveillance

- Surveillance-by-Exception Panel Alarm with e-mail notification
- Model Validation (PROSPER, Pipesim)
- Pump Validation for optimum operation (inside the optimum envelope)

### Water Flooding

- Pattern Balancing
- Chan Plot
- Decline Curve Analysis
- Voidage Replacement Ratio
- Sweep Efficacy
- Pattern Alarms displayed as map annotations



### Cyclic Steam Injection

- Optimization of daily operational changes/picks (to steam, to flowback, and to soak). Based on custom and configurable rules
- Operational changes/picks surveillance. Validate and alarm when recommended picks have not been applied
- Capability to handle dual completions
- Capability to handle Well Interference
- Header/wells surveillance

### Gas Wells Surveillance

- Half slope performance chart
- Well Performance Analysis (WPA)
  - Critical gas rate
  - Cullender and Smith for BHP
  - Pump efficiency
- Decline Curve Analysis for Gas Wells including multi decline

### Compressor Surveillance and Optimization

- Ariel Integration for model-based calculation of operating envelope
- Model-based calculation of operating point robustness

- Operational Alarms notifications and actions follow ups. Based on custom and configurable rules
- Alarms export to Powerpoint for Operations

### Dashboards

- Multi-data source dashboards including:
  - Production
  - Financial
  - Well Review
  - Drilling
  - Lease Management

### Flow Assurance

- OLGA Integration
- Prosper Integration

### OVS Connect

Bring powerful collaboration tools to workflows.

- Create follow-up tasks associated with entities
- Follow entities of interest and receive email notification on another user's comment
- Display an activity stream of user comments
- Tag elements using natural language flow for classification of key conversation topics (i.e. downtime, workover, interpretation)