PE Limited

Engineering & Geological Software Development

IPM 14

New Features and Software Enhancements

IPM 14

*ask*PE

- New feature to allow users to “chat” with the user manuals utilising AI functionality.

GAP

- Non-UI GAP is now available.
- New Solver and Optimiser setting configuration for systems with high error.
- New Solver and Optimiser setting called “Trust Region” which additionally provides additional logs for convergence issues due to constraints.
- New Solver and Optimiser setting called “HDA Optimiser Blending Factor”.
- Parallelisation of the Optimiser.
- Ability to import GIS files to autogenerate network models.
- Ability to specify specific black oil correlations to use in pumps and compressors.
- Ability to apply emulsion models to use in pumps and compressors.
- Additional heat exchanger types have been added.
- Heat Exchangers can now have constraints.
- OneSubSea Booster model has been added.
- Pressure/Temperature Equality constraint for Pumps/Compressors and Heat Exchangers has been added.
- NIST Reference Property Database integrated into GAP for nature use, particularly for CO2 injection networks.
- Ability to modelling coning for compositional models.
- Ability to perform pipeline matching for compositional models.
- Pipeline segment merging for similar diameters now available.

PROSPER

- Multipoint Gas Lift wells can now scale down the calculated gas lift rate to meet a user entered value.
- Separate VLP regions are now available so wells that may have discontinuous VLP curves.
- Enhanced gradient and VLP results for tapered pumps.
- Ability to add a minimum Motor Fluid Velocity which will trigger a warning is breached.
- Inclusion of a voltage drop in cables for pumped wells in VLP and gradient results.
- Ability to handle Permanent Magnet Motors (PMM) for ESPs.
- The following artificial lift options have been implemented for compositional models:
    - Continuous Gaslift

        - ESP lift
        - HSP lift
        - PCP lift
        - Coiled Tubing Gas Lift
        - Diluent lift
        - Jet Pump lift
        - Multiphase Pump lift
- The following artificial lift options have been implemented for the Improved Approximation temperature model:
    - Continuous Gaslift
    - ESP lift
    - HSP lift
    - PCP lift
    - Coiled Tubing Gas Lift
    - Diluent lift
    - Jet Pump lift
    - Multiphase Pump lift
- The following artificial lift options have been implemented for the Enthalpy Balance temperature model:
    - Continuous Gaslift
    - ESP lift
    - PCP lift
    - Coiled Tubing Gas Lift
    - Jet Pump lift
    - Multiphase Pump lift

RESOLVE

- New Integrated Python data object has been added.
- New ScaleSim data objects have been added.
- New CCS Visualisation Toolkit data object has been added.
- Improvements have been made to the GIS data object.
- Compositional Echelon models are now possible to integrate with GAP.
- Ability to set schedules to deactivate specific modules.
- Enhanced reporting for previously saved runs in addition to the current run.
- Application logging has been implemented on all features.

REVEAL

- Inclusion of oil and gas gravity tracking through the reservoir.
- Filter cakes can now be implemented for gas injectors.
- Ability to create a transient CCS well model for pure CO2 injection, utilising NIST property tables.
- VFP Importer for “complex” valves.
- Near well stress calculator has been implemented.
- Monitoring of plastic deformation limits now possible.
- NSI Stimplan importer implemented.
- Hydrate Potential in reservoir now an available result.
- Enhancements to the intersect importer have been made to make the process more streamlined.

- Resqml importer implemented.
- New skin model for acid stimulation in carbonates.
- Ability to model Diesel Kill Fluid in Wellbore added.

MOVE

- MOVE 2026 is a part of the IPM 14 release.
- Continuous development of the MOVE API for both RESOLVE and OpenServer.
- Constrained model building and data analysis in MOVE 2026.
- Kinematic Modelling in MOVE 2026.
- Stress Analysis in MOVE 2026.
- MOVE links for Petrel and GST.
- Import and Export format improvements.