PHDWin Version 3.1.17 – Release Notes

May 2024

Summary of New Features:

- **Large Database Processing Time and Stability:** When the right hardware (32gb RAM recommended) is used with PHDwin V3, large databases (70,000+ cases) are now faster to process and more stable to ensure an efficient workflow.

- **Cost Depletion Report:** This newly added report is great for accounting and financial stakeholders who want to manage their wells taxable liabilities for the year.

General Improvements and Bug Fixes:

- **Daily Production** Fixed issue of changes not being saved on daily production form when daily data is plotted on an active graph.

- **Database Manager** Bug fix for issue where multiple layers of folders made restoring unresponsive.

- **Decks - Prices/expenses/shrinkage** was not triggering save when adding line to case specific values.

- **Global Editor** related bug fix and improvement:
    - Fixed previous build issue of "Curve Fit – Arps" option generating invalid forecasts.
    - Will now properly apply changes to cases when case selection includes norm curve cases.
    - Fixed issue where in certain qualifier setups global edits to expenses were not applying if primary qualifier was empty.

- **Graphs** related bug fix and improvement:
    - Renamed Product setting tiles from "Plot Daily" and "Plot History" to "Plot Daily History" and "Plot Monthly History" for clarity.
    - Fixed issues for scaling axis and graph title values when product is not active in graph.
    - Faster navigation when graph models are applied and active in current view.

- **Grid Editor** related bug fix and improvement:
    - Fixed issue where cases in a project sometimes repeated in Eco Options grid editor
    - Minor fixes for typo and clipboard interaction.

- **Import** related bug fix and improvement:
    - Certain .DRI and .WDB files were not generating autofit upon import despite having the option checked on which has been fixed.
    - Minor updates to text on import window for accuracy on scenarios, views, and mapping.

- **Login Window** was stalling when clicking refresh Instance list button before writing first db name.
- **Merge** related bug fix and improvement:
  - Fixed conflicts when Merging Models with the same name across different products.
  - Fixed issue where Models that match on label but differ in values were not creating new models.
  - Case/Volume Multipliers, investment custom interest/qualifiers, project manager info and recompletion offset issues have been fixed.
- **Prospect Case Creator** now properly prompts for dry hole case when the number is higher than 0 but no dry hole case is specified.
- **Scenario Manager** related bug fix and improvement:
  - Fixed previous build issue of case selection not handling null values for custom ID codes in when in active sort order.
  - Fixed previous build issue of case selection not handling copy Scenario when using effective qualifier tokens in active sort order.
  - Added the ability to resize the columns in the scenario linking tab
  - Prompts for unsaved cases changes will not display repeatedly if cancelled initially.

Changes to Reporting:

- **New Report Features:**

  - **Cost Depletion Report** is new in 3.17.
    This report offers a comprehensive estimation of the proportion of remaining reserves produced or sold during a given tax year, empowering mineral interest owners to strategically reduce their tax burdens.
    Key Features
    1. BOE Basis: Presented on a barrel of oil equivalent (BOE) basis, utilizing un-shrunk volumes for oil and gas production, net to the interest owner.
    2. Cost Depletion Ratio: Calculated through a meticulous formula accounting for the first-year net BOE and net reserves BOE, offering a precise assessment of depletion rates.
       - **Cost Depletion Ratio Formula:**

       $$\text{Cost Depletion Ratio} = \frac{\text{First Year Net BOE}}{\text{Net Reserves BOE}}$$

       - **BOE Calculation:**

       $$\text{BOE} = \text{Net Un-shrunk Oil} + \left(\frac{\text{Net Un-shrunk Gas}}{\text{BOE Factor}} \right)$$

    3. Flexibility: Customizable BOE factors allow users to tailor the report according to specific reporting conventions, ensuring accuracy and relevance to individual cases.
    4. Attention to Detail: Precedence settings and historical production checks ensure data integrity, with warnings flagging any discrepancies for timely resolution.
    5. Streamlined Workflow: Simplified parameters section enables swift adjustments and optimization, while warnings serve as proactive reminders for comprehensive reporting.