

RESERVOIR SIMULATION SUITE



Complete Well Management

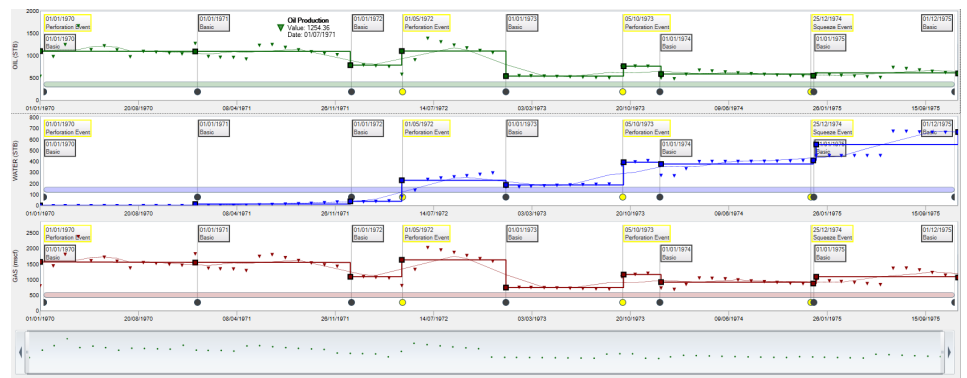
S3schedule is a state-of-the-art tool which enables engineers to automate and speed up key parts of their own workflows. It creates schedule sections for simulation models automatically from various data sources, such as simulator input, well path and event files. **S3schedule** also works with production history data, giving engineers the ability to use intuitive and interactive methods to match simulation profiles to real production data.

KEY FEATURES

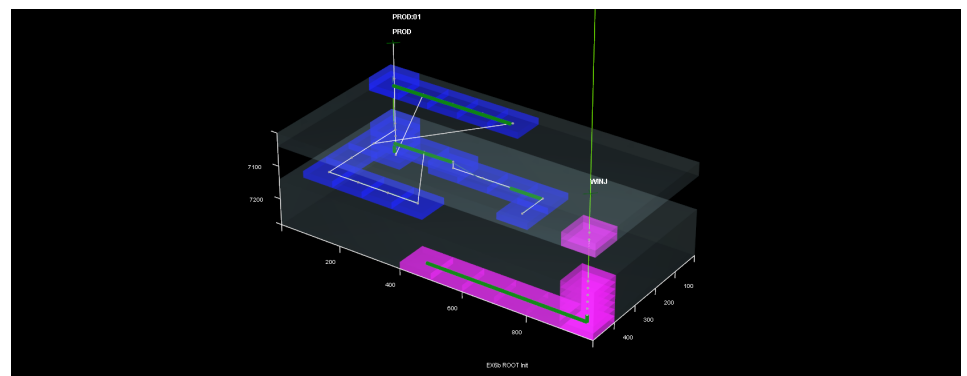
- Quick and easy creation of schedule data
- Wide range of input data formats supported
- Interactive control of time framework for production history and prediction
- Simple and responsive handling of complex schedule data for large numbers of wells

BENEFITS

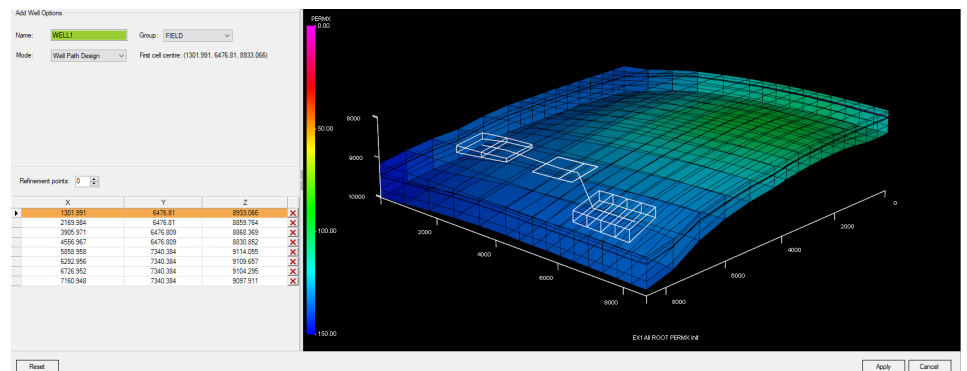
- Load and view observed data from input deck
- Clear and easy-to-use visualisation tools
- Intuitive handling of well events, well control and group control keywords
- Add simple and complex wells
- Export well path and trajectory data
- Multi-lateral well segment support
- Advanced control of keyword exporting with macros and templates



Interactive production history tool



Wellbore and event visualisation



Creating a new well path



Wellbore & Grid Visualisation

- Well deviation
- Trajectory cells
- Well events (along the well path, through time)
- Log data

Well name filter: Show well branches

Well Name	Branch Name	Well Type	Event Type	Date	Defined By	Layer Name	Top MD	Bottom MD	Wellbore Diameter	Kh	Skin	Table Number	CF-Multiplier
PROD	STEM	Path	Perforation	01/01/1980	MD	8-8	7200	7240	0.5		5		
PROD	BRANCH1	Path	Perforation	01/01/1981	MD	2-2	7020	7427	0.45		3		
PROD	BRANCH2	Path	Perforation	01/01/1982	MD		7160	7392	0.45		5		
PROD	BRANCH3	Path	Perforation	01/01/1983	MD		7211	7411	0.45		4		
PROD	BRANCH3	Path	Perforation	01/01/1984	MD		7611	7713	0.45		4		
WVWJ	STEM	Path	Perforation	01/01/1986	MD	9-9	7250	7270	0.5		5		
WVWJ	WU1	Path	Perforation	01/01/1987	MD	10-10	7210	7370	0.45		5		

Well Building

- Calculate well trajectories based on well deviation and grid geometry data
- Automatic calculation of connection factors
- Well event editor
- Addition of linear and deviated wells
- Export well definitions including completion connection factors
- Support for multi-lateral, multi-segment wells
 - ◆ Multi-segment wells shown on a 3D grid display
 - ◆ Automated

Well events editor

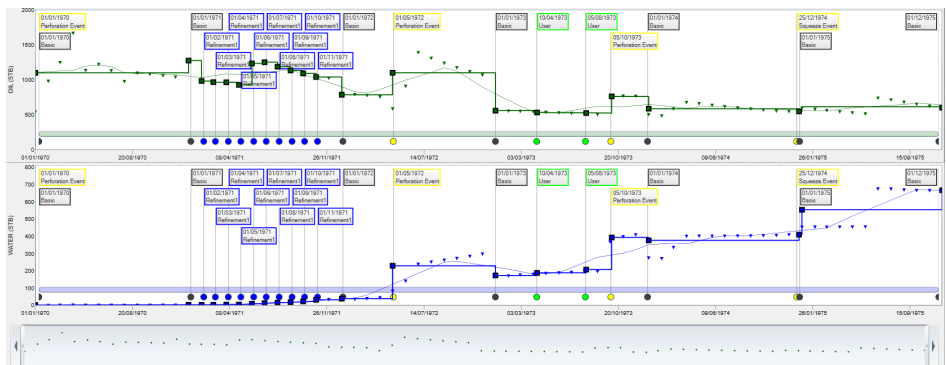
Well events can be added, edited and removed from the table and all changes are reflected in real-time on the 3D grid display. Visual indicators provide measured depth validation and event shifting information.

Reporting On	Start Timestep	End Timestep	Options
01/01/1970	01/01/1970	01/01/1972	Al/In/Res/Last Only/Rand/Yearly/Defined Frequency/User Selected
01/01/1972	01/01/1972	01/01/1975	

Timestep	Reporting	RFT	FLT
01/01/1970	✓	✓	✓
12/03/1970	✓	✓	✓
28/01/1971	✓	✓	✓
01/02/1971	✓	✓	✓
01/03/1971	✓	✓	✓
01/04/1971	✓	✓	✓
01/05/1971	✓	✓	✓
21/05/1971	✓	✓	✓
01/06/1971	✓	✓	✓
05/06/1971	✓	✓	✓
01/07/1971	✓	✓	✓
01/08/1971	✓	✓	✓
01/09/1971	✓	✓	✓
01/10/1971	✓	✓	✓
01/11/1971	✓	✓	✓
01/01/1972	✓	✓	✓
01/02/1972	✓	✓	✓
23/03/1972	✓	✓	✓
01/04/1972	✓	✓	✓
05/04/1972	✓	✓	✓
05/05/1972	✓	✓	✓
05/10/1972	✓	✓	✓
01/01/1973	✓	✓	✓
01/02/1973	✓	✓	✓
01/03/1973	✓	✓	✓
01/04/1973	✓	✓	✓
01/05/1973	✓	✓	✓
01/06/1973	✓	✓	✓
01/07/1973	✓	✓	✓
01/08/1973	✓	✓	✓
01/09/1973	✓	✓	✓
01/10/1973	✓	✓	✓
01/11/1973	✓	✓	✓
01/12/1973	✓	✓	✓

Reporting editor

Simple controls allow adding reporting steps to the exported schedule. The tabular view updates to reflect changes and indicate active/inactive timesteps.



Time framework refinement

As part of the fully interactive time framework editor for production history, specific refinements can be added to give greater control of the frequency of observed data output. In addition to user defined timesteps, these automatically calculate and update resultant rates.

Schedule Generation

- Simple time framework creation from production history data
- Interactive production history analysis tool
- Easy-to-use time framework refinement
- Handle missing data (null values)
- Support for multiple observed data formats
- Add reporting steps
- Control exported keywords using templates and macros
- Group hierarchy visual designer



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