

PROVIDER OF

Apps for Process Simulation

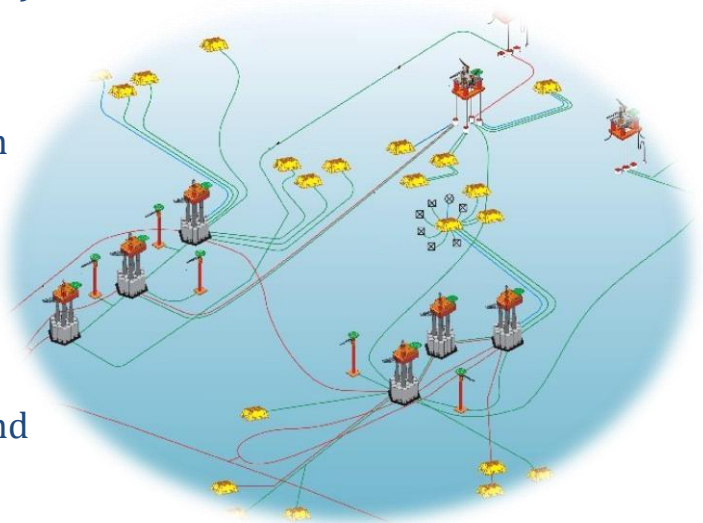
BPT software tools enhance the capabilities of your process simulation tools to improve your engineers efficiency and accuracy

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BPT-MWF™

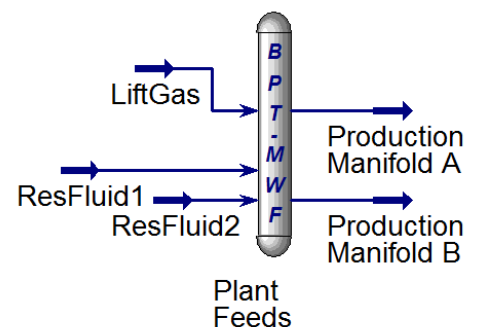
Define process simulator sources quickly and consistently

- Use BPT-MWF™ (Multi Well Feeder) to specify feed GOR, water-cut, pressure, temperature and rate
- Model tens or hundreds of wells in one single unit operation
- Faster flowsheet solution time
- Reduce flowsheet complexity
- Replaces complex spreadsheets and adjusts
- Faster data entry



The bottom line

Reduce complexity when defining feed streams in process simulation models.



BPT was founded 1998 in Norway. We develop and provide Apps for Process Simulation™. We deliver independent and trusted third-party specialist consultancy services to the upstream oil & gas industry, combining experience with leading edge simulation tools using our Apps.

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What is BPT-MWF™?

BPT-MWF™ is a software to facilitate the definition of commonly used well characteristics. The main parameters are Gas to Oil ratio, water cut and oil flow. The software also allows for the mixing of the wells into combined streams according to the manifold arrangement used. BPT-MWF™ comes as an extension for industry leading process simulation software.

The app is easy to use and quick to implement in your process simulation.

BPT-MWF™ allows multistage separation for the definition of the gas-oil ratio, providing consistency between the output from reservoir models and the process simulation.

Connections | Fluid Preparation | Parameters | Overall Results | Well Composition | Comp. @ Last Stage | Work Sheet | About

Name:

Wells: Number of Wells:

Reservoir Fluids:

ResFluid1
ResFluid2
LiftGas
<empty>

Manifold Outlets:

Production Manifold A
Production Manifold B
<empty>

Calculation basis:

Basis for Liquids	Volume
Liquid Volume	Act vol @ last stage
Gas Volume	Act vol @ last stage
Water Volume	Act vol @ last stage
Well Mass Flow	kg/h
Well Mole Flow	std_m3/h
Well Volume Flow	m3/h

Generate Report

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Targets

Well names	Well1	Well2	Well3	Well4	GL1
Reservoir Fluid Name	ResFluid1	ResFluid1	ResFluid2	ResFluid2	LiftGas
Well Destination	Production M	Production M	Production M	Production M	Production M
GOR Target	145.2 STD_m3	450.0 STD_m3	134.2 STD_m3	300.0 STD_m3	<empty>
Water Cut	21.55	51.00	2.416	15.15	<empty>
Well Feed Pressure	65.13 bar	40.00 bar	65.13 bar	40.00 bar	40.00 bar
Well Feed Temperature	78.15 C	80.00 C	65.20 C	70.13 C	70.13 C
Well Flow	23.56	34.62	45.23	56.16	1205
Well Flow Basis	Oil Volume Fl.	Oil Volume Fl.	Oil Volume Fl.	Oil Volume Fl.	Total Mole Fl.

The cone gas definition vapour fraction, temperature and pressure are used to create a vapour, oil and water fluid. Those fluids are Water cut is on the basis of percent water of total liquid (oil+water)

The GOR stage conditions allow for a well specific pressure and temperature. If no stage temperature is given, adiabatic letdown fr

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Fluid Preparation Definition

	ResFluid1	ResFluid2	LiftGas
Cone Gas Vapour Frac.	0	0	<empty>
Cone Gas Temperature	86.40	84.20	15.00
Cone Gas Pressure	<empty>	<empty>	1.013
Do not modify fluid	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Nbr of Stages for GOR	1	5	<empty>
Raw GOR	98.16	87.69	<empty>

GOR Stages

	ResFluid1	ResFluid2	LiftGas
HP	15.56	40.00	15.56
Temperature	<empty>	65.00	<empty>
LP	<empty>	50.00	<empty>

	ResFluid1	ResFluid2	LiftGas
HP	1.013	80.00	1.013
Pressure	<empty>	65.00	<empty>
LP	<empty>	45.00	<empty>

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Flow percentages of fluid phases at inlet conditions

	Well1	Well2	Well3	Well4	GL1
Gas Mass Percent	3.43	15.39	6.93	22.07	<empty>
Oil Mass Percent	73.63	40.92	90.52	63.98	<empty>
Water Mass Percent	22.95	43.69	2.55	13.96	<empty>
Gas Mole Percent	5.08	15.36	15.57	32.57	<empty>
Oil Mole Percent	40.85	15.29	75.40	35.00	<empty>
Water Mole Percent	54.07	69.35	9.03	32.43	<empty>

Flow percentages for fluids leaving last separator stage

	Well1	Well2	Well3	Well4	GL1
Gas Mass Percent	20.61	27.62	13.11	16.14	<empty>
Oil Mass Percent	56.47	28.69	86.89	83.86	<empty>
Water Mass Percent	22.93	43.69	0.00	0.00	<empty>
Gas Mole Percent	21.70	22.71	23.69	27.79	<empty>
Oil Mole Percent	24.28	7.95	76.31	72.21	<empty>
Water Mole Percent	54.02	69.35	0.00	0.00	<empty>

