



PETROSTREAMZ

Knowledge, Quality and Innovation

BOz

Black-Oil Component Delumper

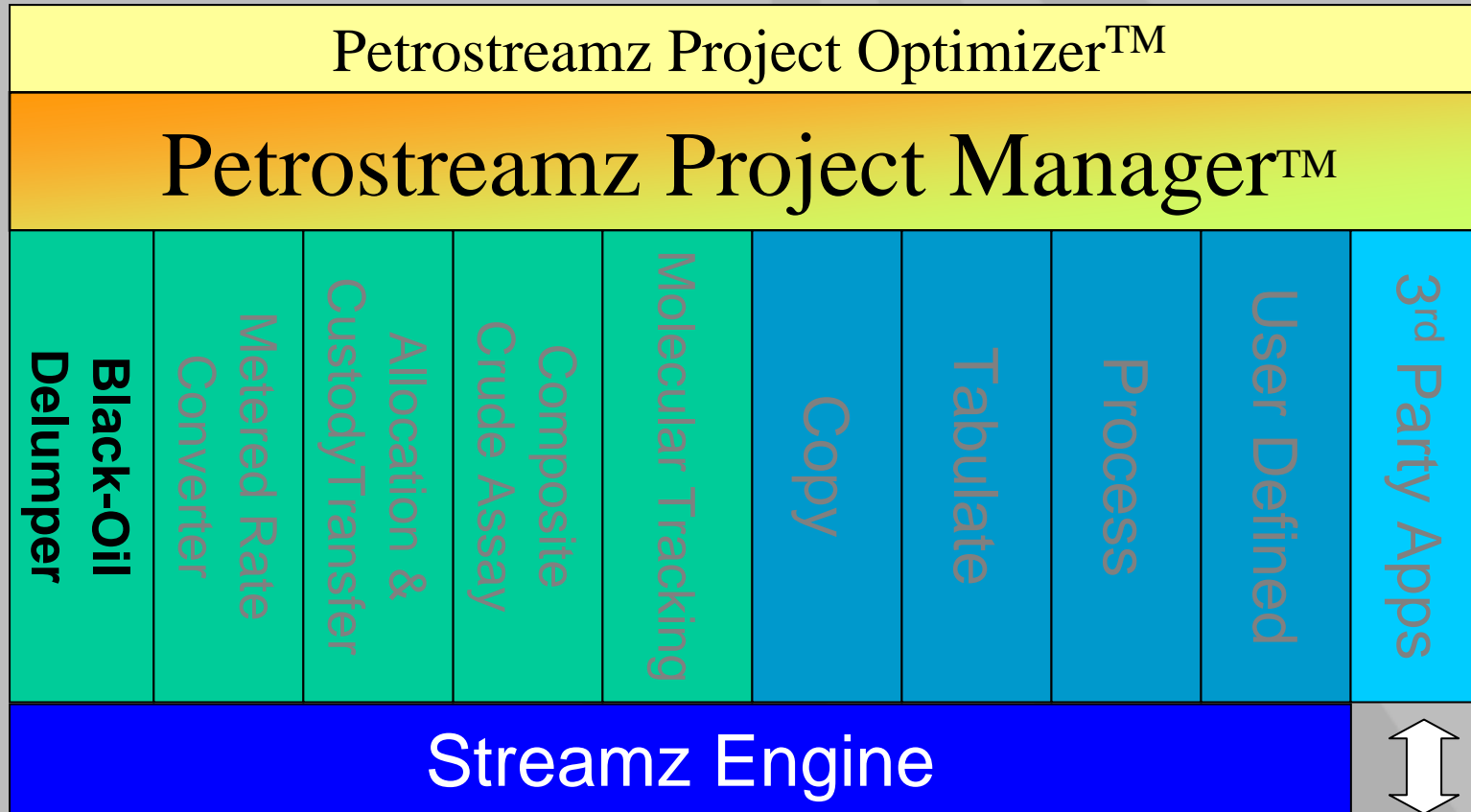
Petrostreamz Resource Management™

<http://www.petrostreamz.com>

A subsidiary of PERA



Petrostreamz Resource Management™



- Streamz Primitives
- Streamz Templates

Eclipse, VIP, Sensor, ...
Hysys, Aspen, Prosim, ...
Pipesim, Olga, ...



Near-Critical Grading Reservoir

Pressure depletion

- North Sea 3D-sector model.
- Near critical fluid system with compositional gradient.
- 3 producing wells located in upper-, middle-, and lower structure.
- BOz conversion of (ECL100*) black-oil surface gas and oil rates at connection level.
- Compare with (ECL300*) EOS model results.

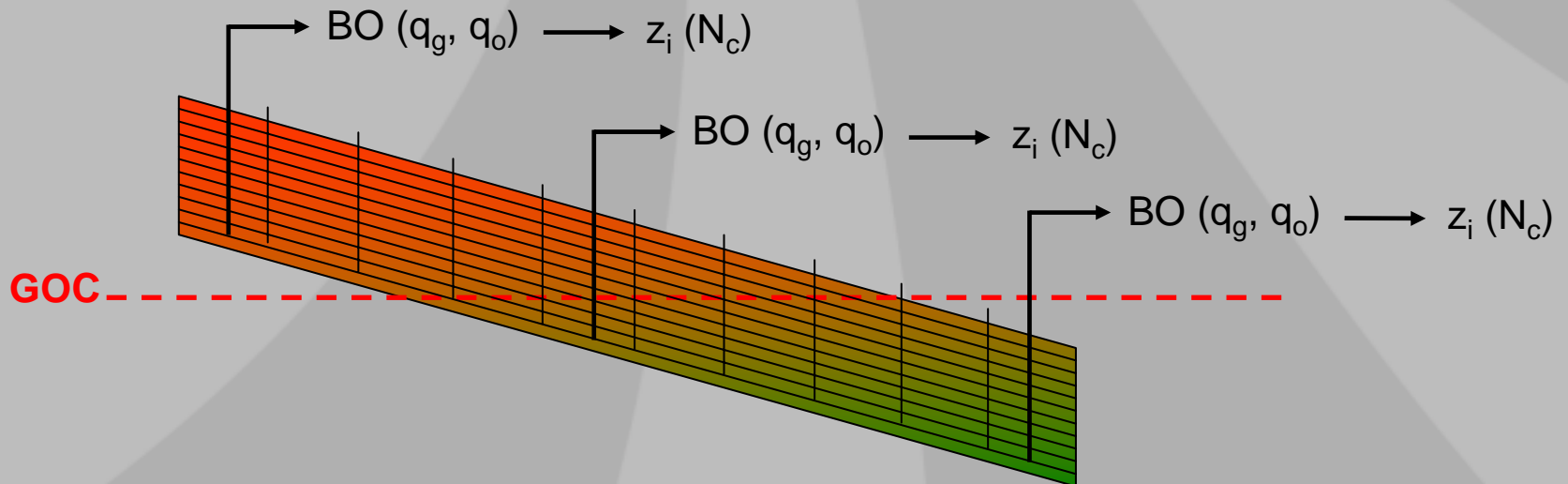
* ECL100/300 references Eclipse simulators. Trademark of Schlumberger Ltd.



Near-Critical Grading Reservoir

black-oil to compositional conversion

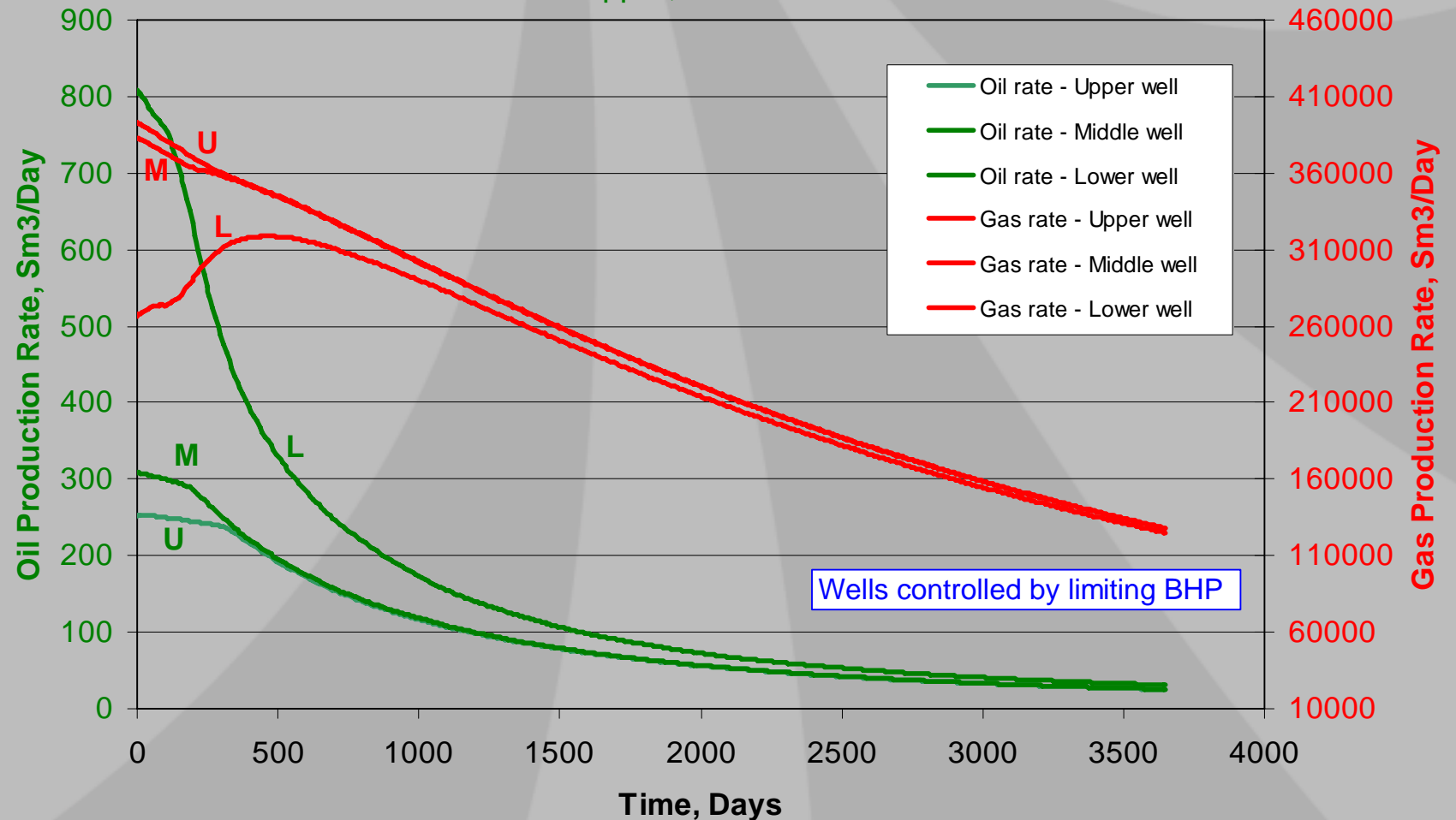
- ✓ “Compositional grading” black-oil model (R_s & r_s vs depth).
- ✓ Connection level conversions from black-oil rates (q_g , q_o) to compositional rates (z_i).





Near-Critical Grading Reservoir

Near-Critical Grading Reservoir - Pressure Depletion Black-oil rates for upper, middle and lower structure wells

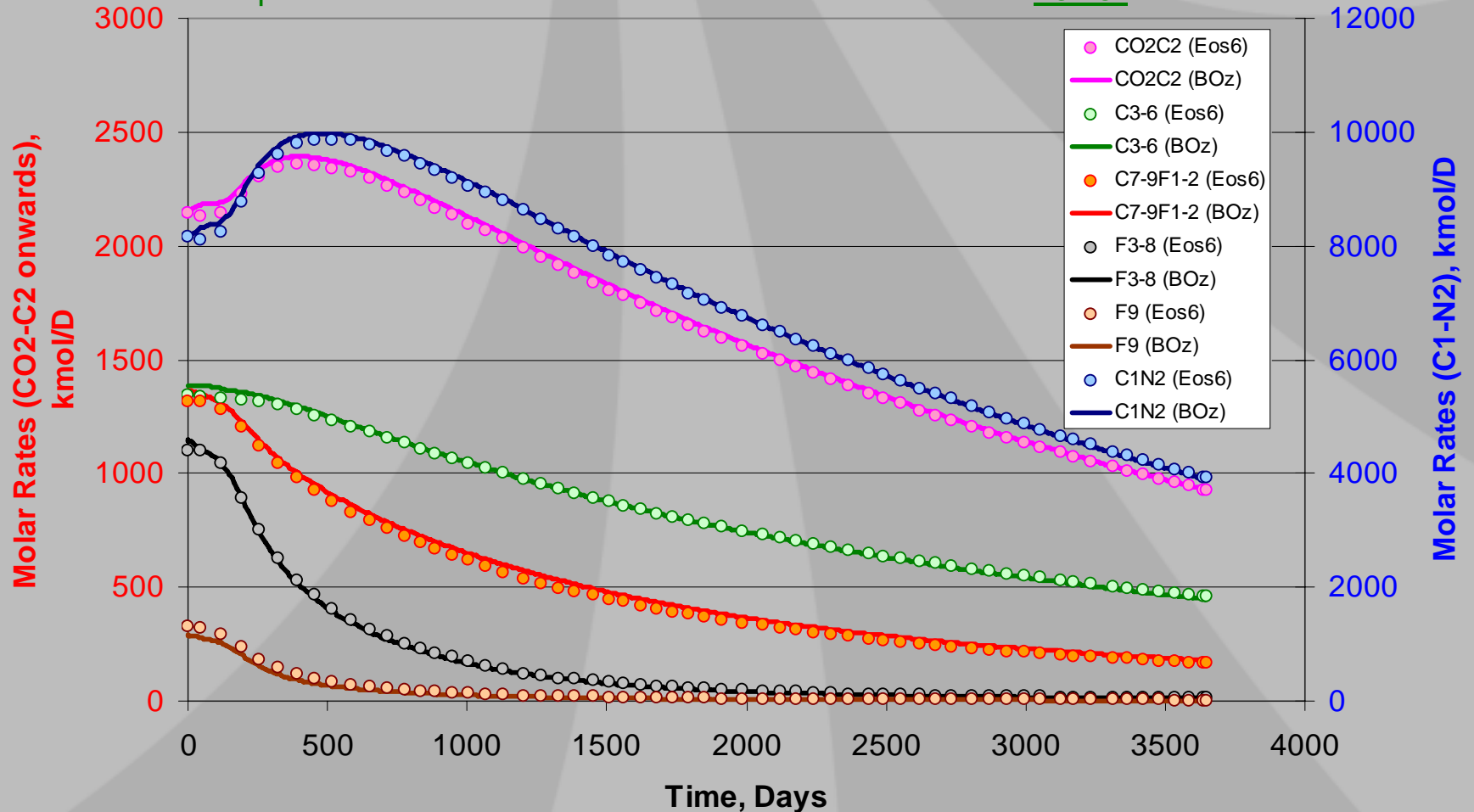




Near-Critical Grading Reservoir

Near-Critical Grading Reservoir - Pressure Depletion

Comparison between EOS model and BOz conversion for lower structure well

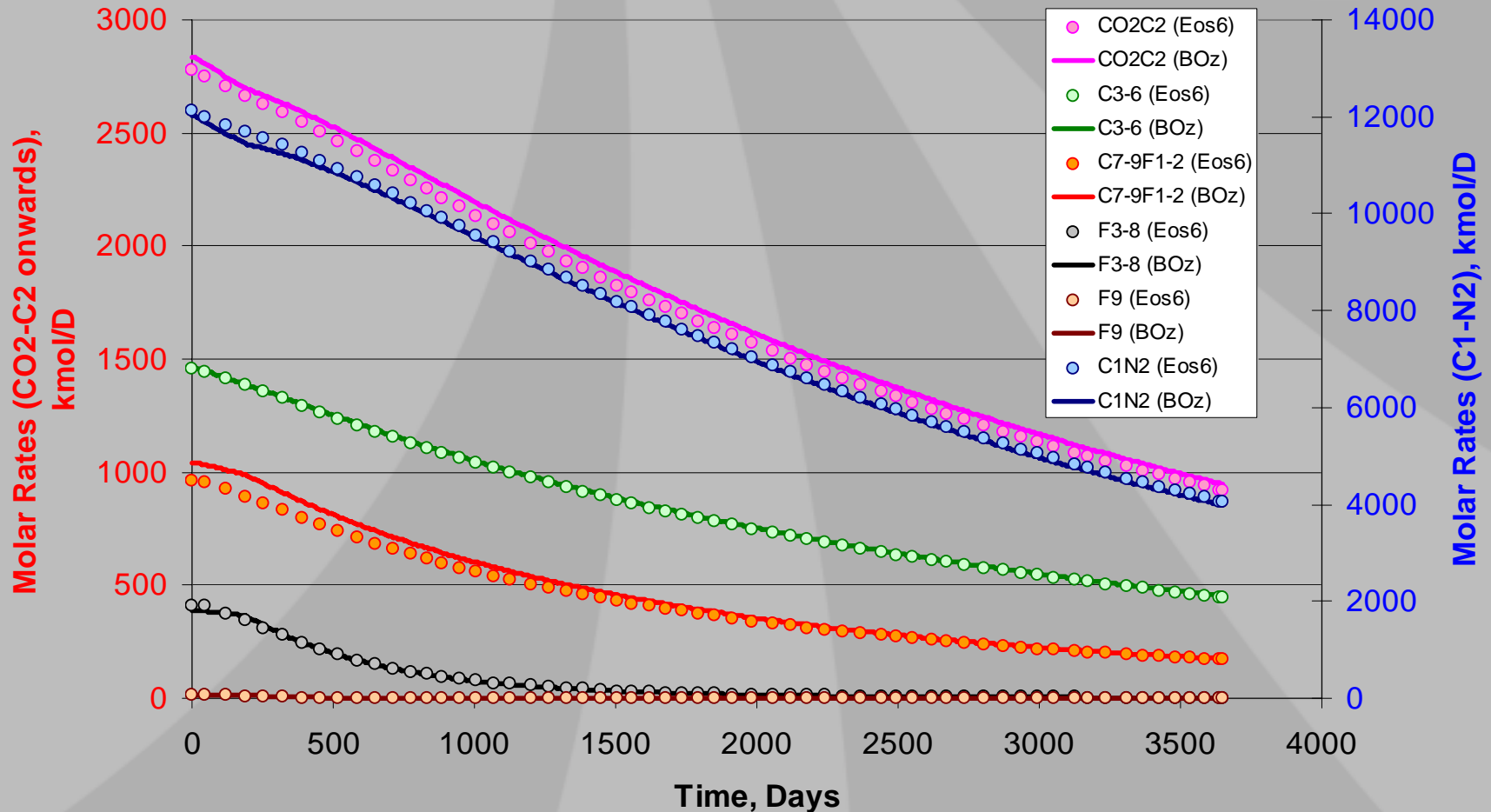




Near-Critical Grading Reservoir

Near-Critical Grading Reservoir - Pressure Depletion

Comparison between EOS model and BOz conversion for middle structure well





Near-Critical Grading Reservoir

Near-Critical Grading Reservoir - Pressure Depletion

Comparison between EOS model and BOz conversion for upper structure well

