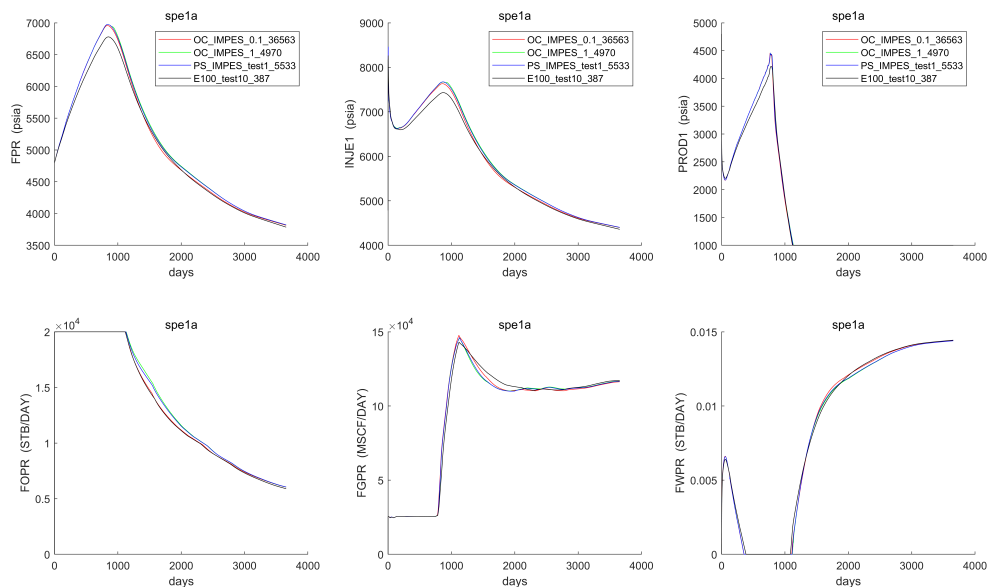


# SPE1A



-----

PS\_IMPES\_1

TMARCH  
0.1 1 0.1 5 0.3 0.3 300 0.2 0.3 0.001

Final time: 3655.5 Days  
Total time steps: 5533  
Total nonlin steps: 5533  
Total linear steps: 8828  
Linear solver time: 0.932773s  
Simulation time: 2.44659s

-----

OC\_IMPES\_1

0.1 1 0.1

Final time: 3655.5 Days  
Total linear steps: 19177  
Linear solve time: 1.22111s  
Total time steps: 4970  
Simulation time: 1.68812s

-----

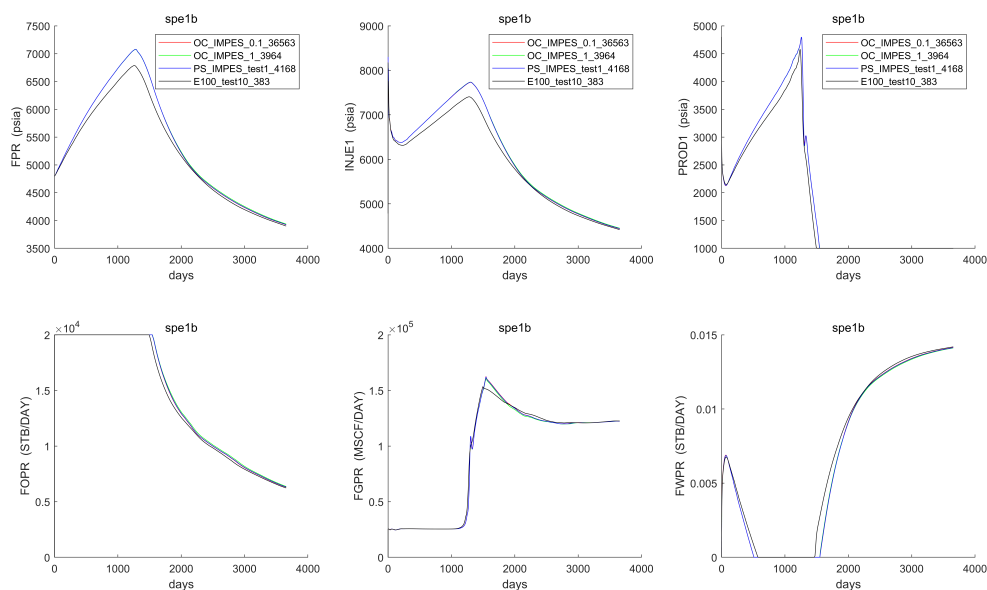
OC\_IMPES\_0.1

0.1 0.1 0.1

Final time: 3655.5 Days  
Total linear steps: 109630  
Linear solve time: 6.66679s

Total time steps: 36563  
Simulation time: 10.0991s

## SPE1B



-----  
IMPES

TMARCH

0.1 1 0.1 5 0.3 0.3 300 0.2 0.3 0.001

Final time: 3655.5 Days  
Total time steps: 4168  
Total nonlin steps: 4168  
Total linear steps: 7601  
Linear solver time: 0.824397s  
simulation time: 1.99241s

-----  
OC\_IMPES\_1

0.1 1 0.1

Final time: 3655.5 Days  
Total linear steps: 15679  
Linear solve time: 1.03353s  
Total time steps: 3964  
simulation time: 1.40656s

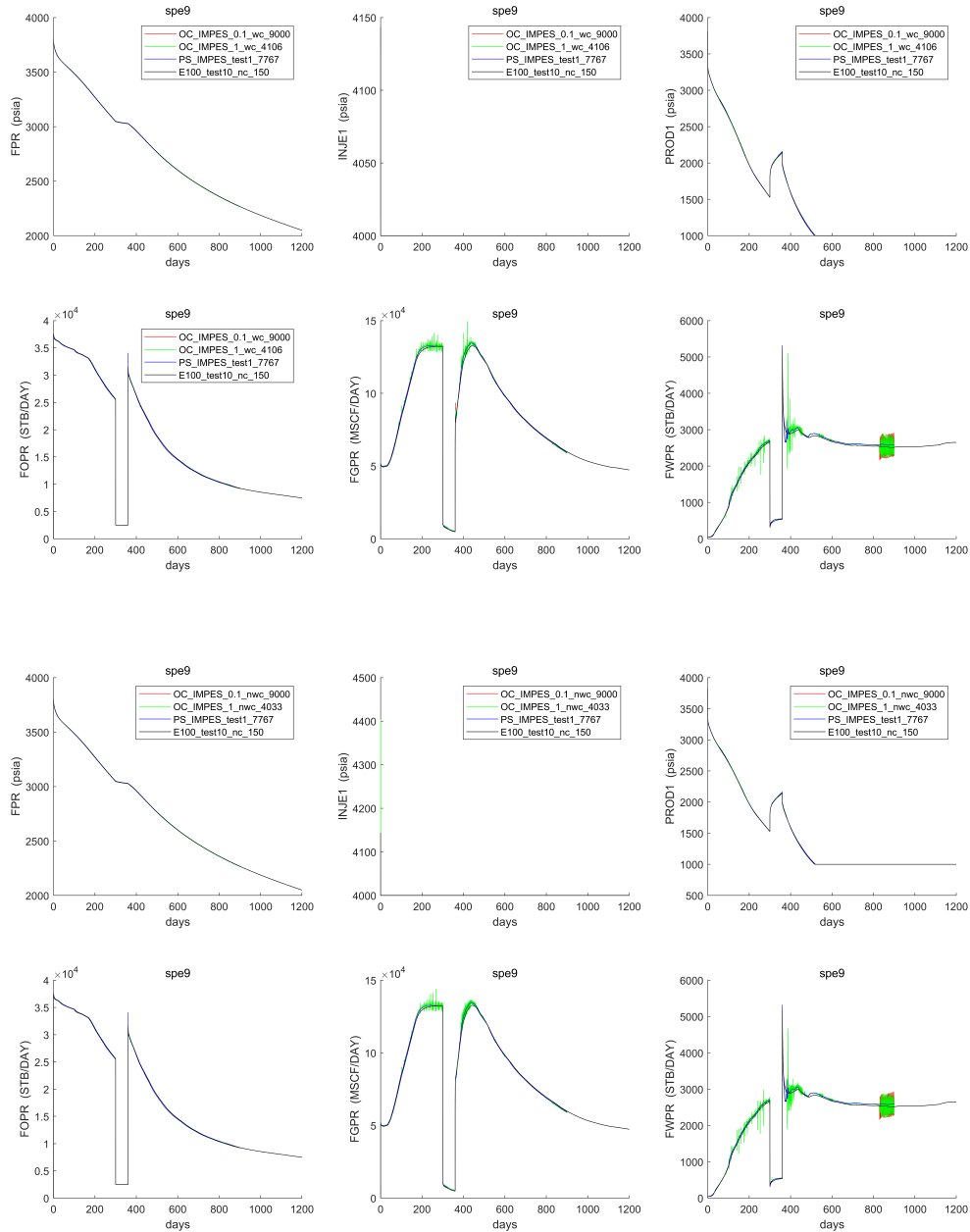
-----  
OC\_IMPES\_0.1

0.1 10.1 0.1

Final time: 3655.5 Days  
Total linear steps: 109441

Linear solve time: 5.84241s  
Total time steps: 36563  
simulation time: 9.20546s

## SPE9



PS\_IMPES\_1

TMARCH  
0.1 1 0.1 5 0.3 0.3 300 0.3 0.3 0.001

Summary

-----  
Final time: 900 Days  
Total time steps: 7767  
Total nonlin steps: 7767  
Total linear steps: 12465  
Linear solver time: 57.9099s  
Simulation time: 276.62s

-----  
OC\_IMPES\_1\_wc

Final time: 900 Days  
Total linear steps: 16808  
Linear solve time: 48.808s  
Total time steps: 4106  
Simulation time: 63.845s

-----  
OC\_IMPES\_0.1\_wc with well control

Final time: 900 Days  
Total linear steps: 32056  
Linear solve time: 83.3344s  
Total time steps: 9000  
Simulation time: 115.682s

-----  
OC\_IMPES\_1\_nwc no well control

Final time: 900 Days  
Total linear steps: 16455  
Linear solve time: 48.4109s  
Total time steps: 4033  
Simulation time: 63.0615s

-----  
OC\_IMPES\_0.1\_nwc

Final time: 900 Days  
Total linear steps: 31955  
Linear solve time: 84.0852s  
Total time steps: 9000  
Simulation time: 116.621s