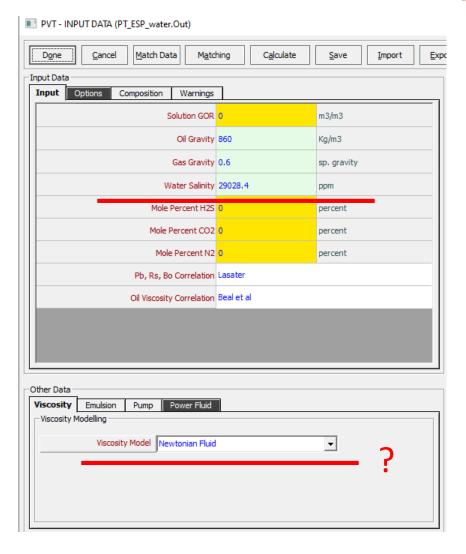
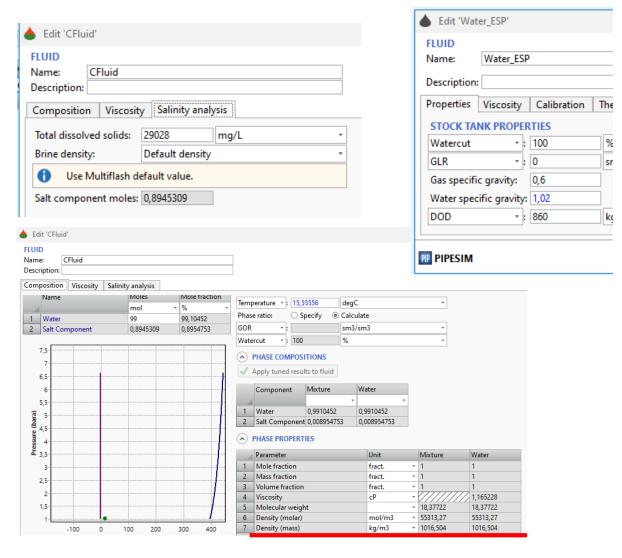
Кейс Вода

PVT вода



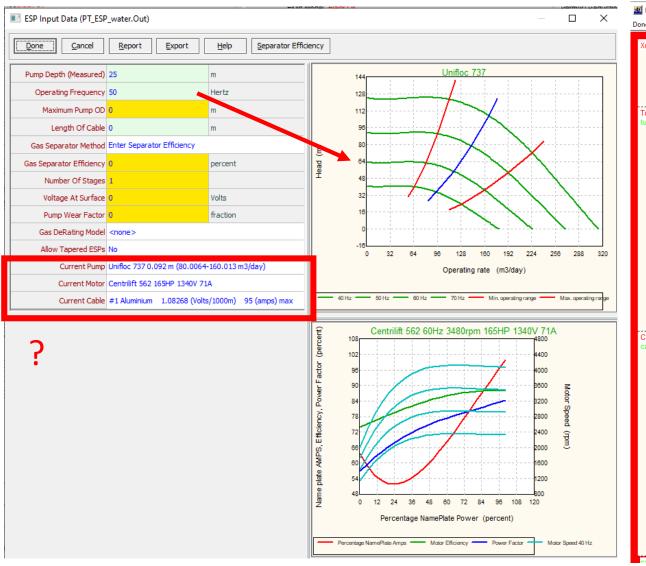
T = 80 C water sp gr = 1016/998 = 1.018

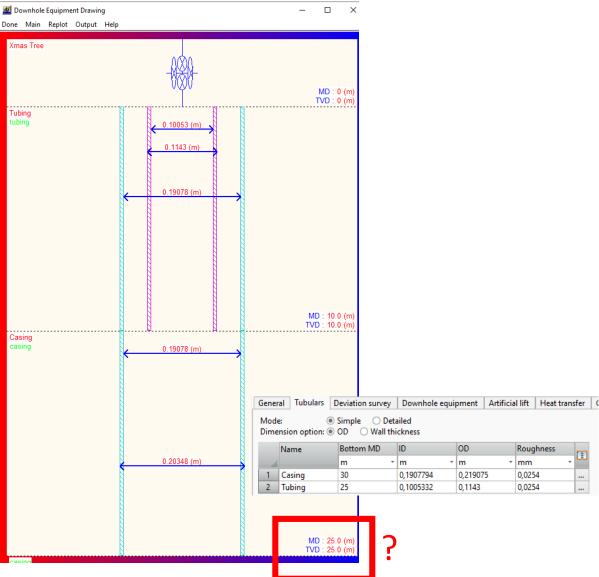
Stock tank cond?



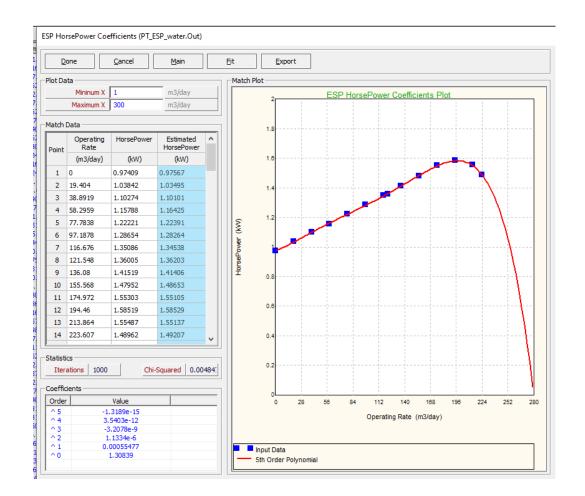
T = 80 C

ESP INPUT 1/3

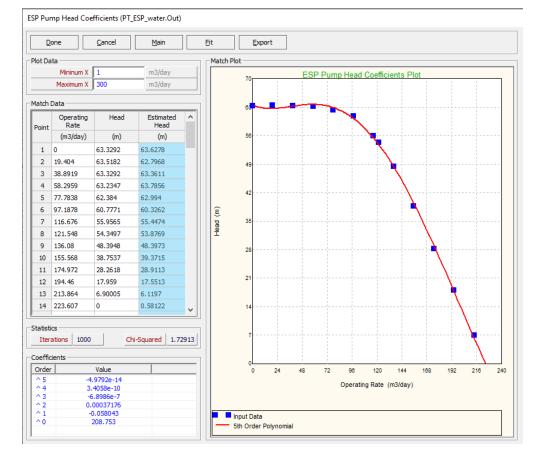




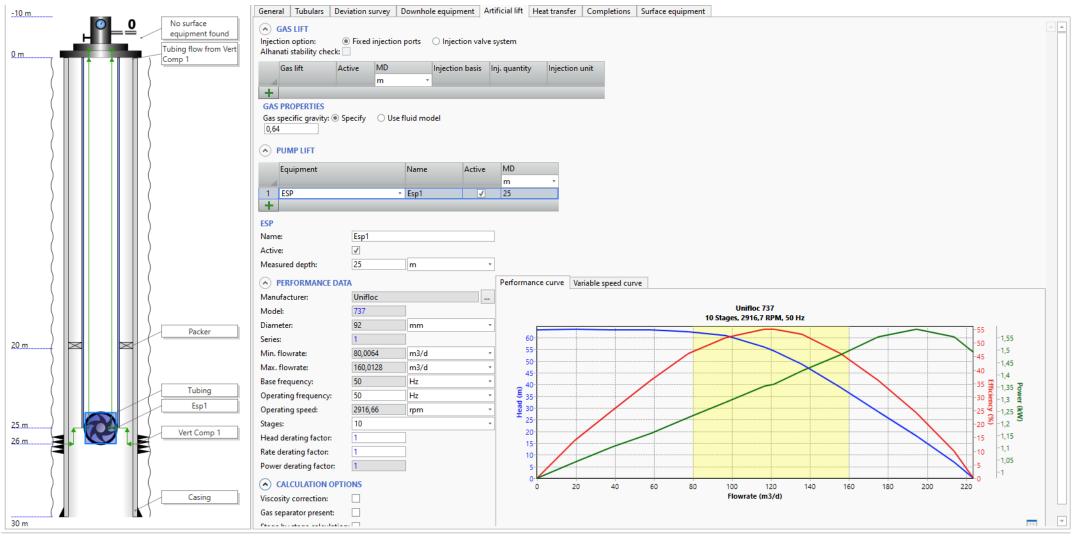
ESP INPUT 2/3



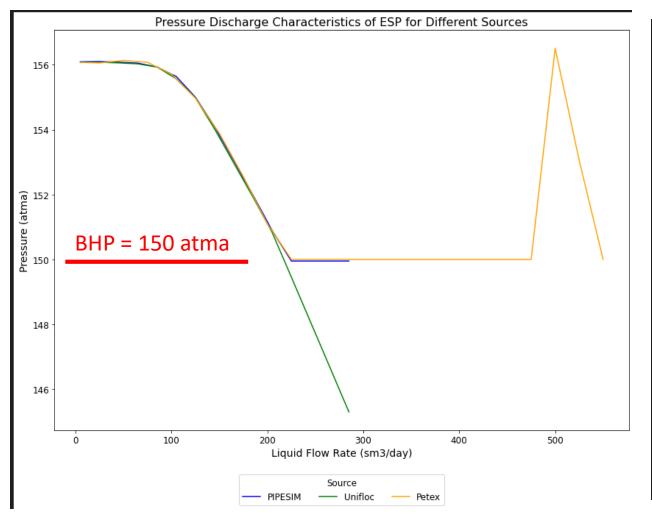


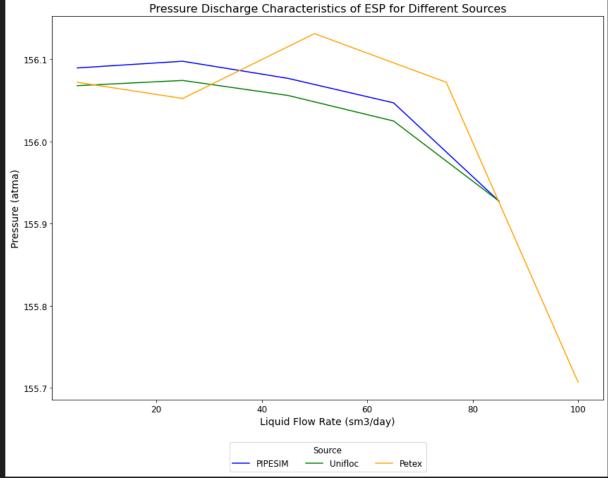


ESP INPUT 3/3



Pdis





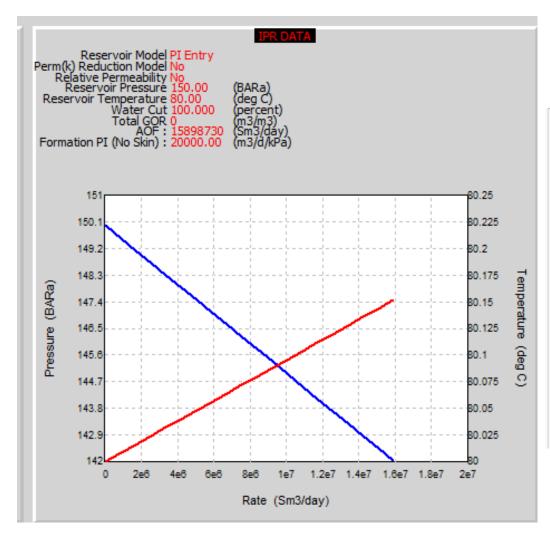
Liq Density

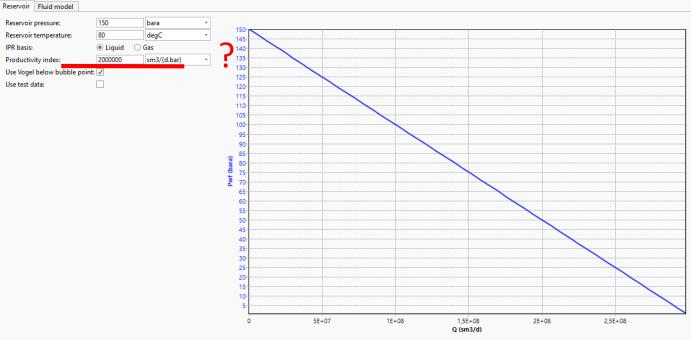
Point	Label	Label Bottom Measured Depth		Pressure	Temperature	Gradient	Holdup	Regime	Heat Transfer Coefficient	
		(m)	(m)	(BARa)	(deg C)	(bar/m)			(W/m2/K)	
1		25.0	25.0	151.99	80.00					
2		25.0	25.0	155.76	80.00	0.056551	0			
3		25.0	25.0	151.99	80.00	0.056551		ESP		
4		17.5	17.5	151.26	80.63	0.097558	1.000		28.3949	
5		10.0	10.0	150.52	80.00	0.097556	1.000		28.3949	
6		5.0	5.0	150.03	80.00	0.018109	1.000		28.3949	
7		0	0	149.54	80.00	0.098108	1.000		28.3949	
8		0	0	149.54	80.00	0.098108		WellHead	28.3949	

Point	Erosion Type	Corrosion Rate	Maximum Grain Diameter	Oil Density	Gas Density	Water Density	Liquid Density	Mixture Density	Oil Viscosity	Water Viscosity	Gas Viscosity	Liquid Viscosity	Ga Int
		(mm/year)	(mm)	(Kg/m3)	(Kg/m3)	(Kg/m3)	(Kg/m3)	(Kg/m3)	(centipoise)	(centipoise)	(centipoise)	(centipoise)	(
1				725.980	125.297	995.811	995.811		0.72344	0.40757	0.017574	0.40757	32.
2				726.553	128.476	995.889	995.888		0.72592	0.40757	0.017767	0.40757	32.
3				725.980	125.297	995.811	995.811		0.72344	0.40757	0.017574	0.40757	32.
4			1.5155	725.866	124.678	995.797	995.796	995.796	0.72296	0.40757	0.017537	0.40761	33.
5			1.5155	725.751	124.059	995.782	995.781	95.781	0.72248	0.40757	0.017499	0.40761	33.
6			10.6551	725.673	123.643	995.772	995.738	995 738	0.72216	0.40757	0.017475	0.40761	33.
7			10.6551	725.594	123.226	995.762	995.728	995.72	0.72184	0.40757	0.01745	0.40761	33.
8			10.6551	725.594	123.226	995.762	995.728	995.728	0.72184	0.40757	0.01745	0.40761	33.

	Case	Equipment	Туре	Total distance	Elevation	Pressure	Temperature	Fluid mean	Liquid holdup	EVR	G-L Pattern	O-W Pattern	Flowing liqu	. Flowing oil
_4				m •	m +	bara +	degC ₹	m/s *	% *				kg/m3 ▼	kg/m3
1	Outlet Pressure=155.7055 Bara			0	-25,49987	151,988	80				Undefined	Undefined	999,9756	822,1653
2	Outlet Pressure=155.7055 Bara	Vert Comp 1	Completion	0	-25,49987	151,988	80				Undefined	Undefined	999,9756	822,1653
3	Outlet Pressure=155.7055 Bara	Casing	Tubing	0	-25,49987	151,388	80	0,00206499	100	0,000535287	Liquid	Undefined	999,9753	822,1653
4	Outlet Pressure=155.7055 Bara		Tubing	0,499872	-25	151,939	80	0,002064994	100	0,000535288	Liquid	Undefined	999,9736	822,1652
5	Outlet Pressure=155.7055 Bara	Esp1	ESP	0,499872	-25	158,1577	83,58747				Undefined	Undefined	998,0024	820,2933
6	Outlet Pressure=155.7055 Bara	Tubing	Tubing	0,499872	-25	158,1577	83,58747	0,00744258	100	0,001928466	Liquid	Undefined	999,1433	821,2312
7	Outlet Pressure=155.7055 Bara		Tubing	15,49999	-9,999878	156,6864	80	0,007434726	100	0,001927448	Liquid	Undefined	1000,199	822,1674
8	Outlet Pressure=155.7055 Bara		Tubing	25,49987	0	155,7055	80	0,007435071	100	0,001927492	Liquid	Undefined	1000,152	822,167

IPR Data

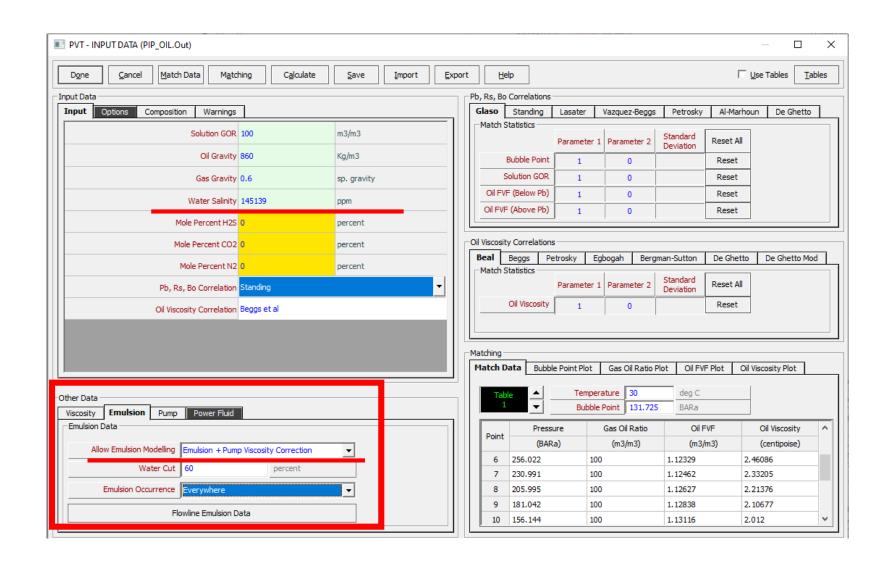




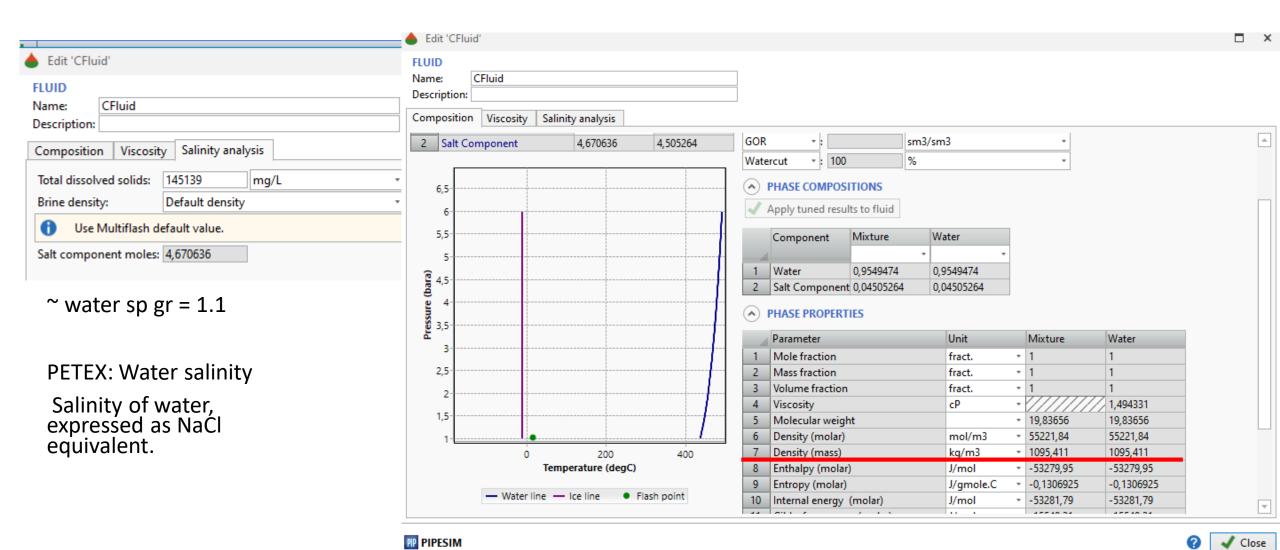
Кейс Нефть

PVT Input 1/3

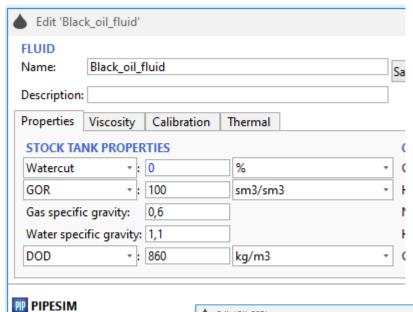
- в PIP вязкость эмульсия учитывается в HACOCE?
- If a pump is enabled in the main Options screen, a viscosity correction for emulsions can be enabled. The user has the option to select where the emulsion viscosity corrections will be considered (e.g. everywhere or just in the pump etc.).

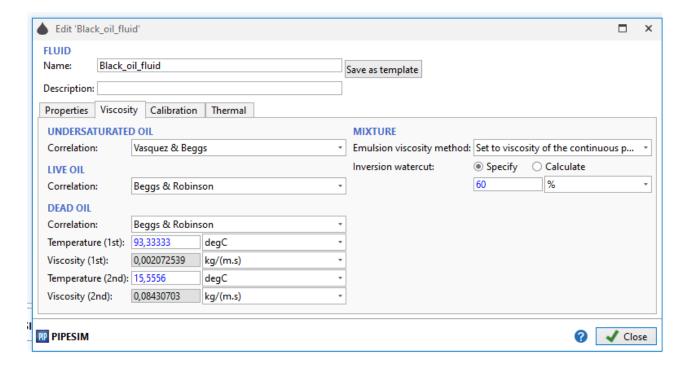


PVT Input 2/3



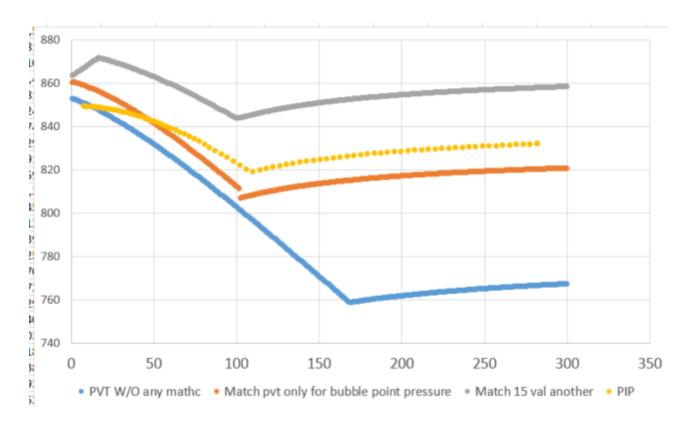
PVT Input 3/3





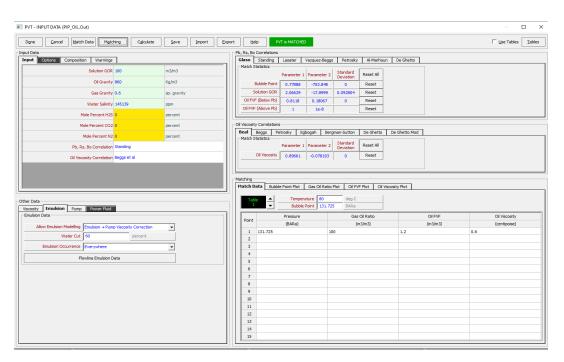
▲ Edit 'Oil_ESP' □ × **FLUID** Name: Oil_ESP Save as template Description: Properties Viscosity Calibration Thermal Calibration Pressure Correlation degC - Vasquez & Beggs Above BP OFVF bara + At BP Sat. Gas: 120 sm3/sm3 * 131,7225 bara + 80 degC * Standing ·: 1,2 OFVF 131,7225 bara + 80 degC * Standing Live oil viscosity: 131,7225 bara + 80 degC + Beggs & Robinson At or Below BP degC → Lee et al. Gas viscosity: cР bara Gas Z: degC + Standing bara PIP PIPESIM ✓ Close

Density

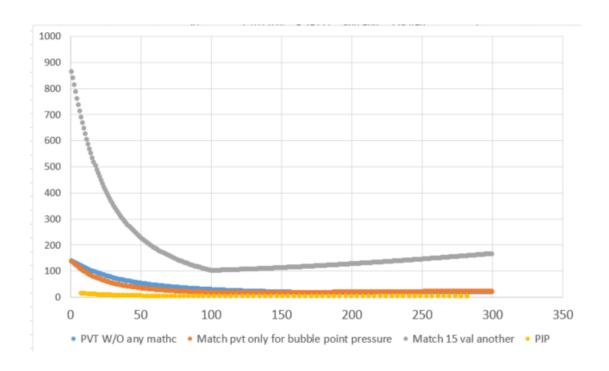


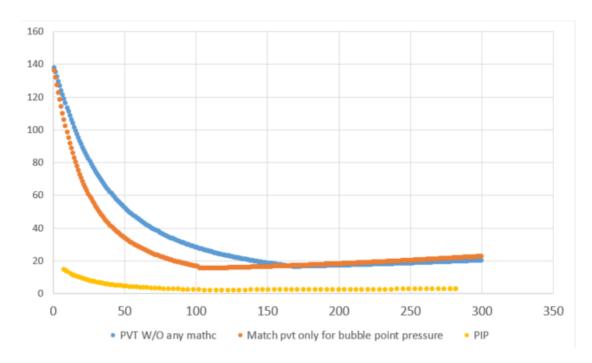
T = 30 C Pb = 131.725 BARA Pb = 102,624

Pb = 109



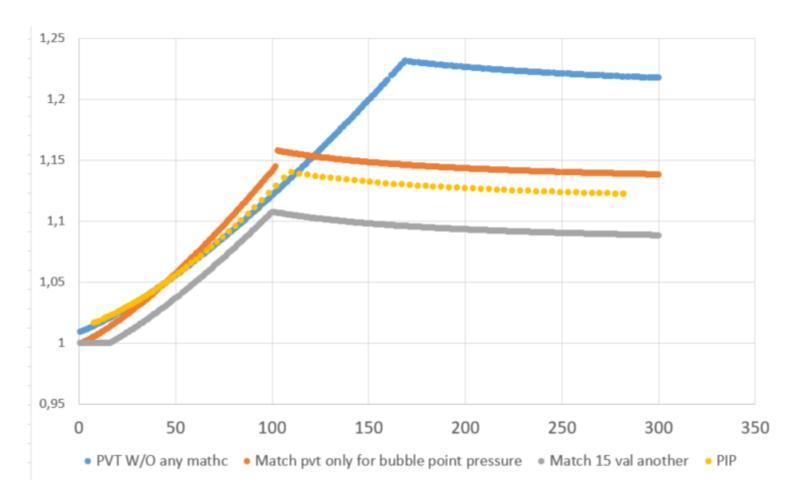
Visc





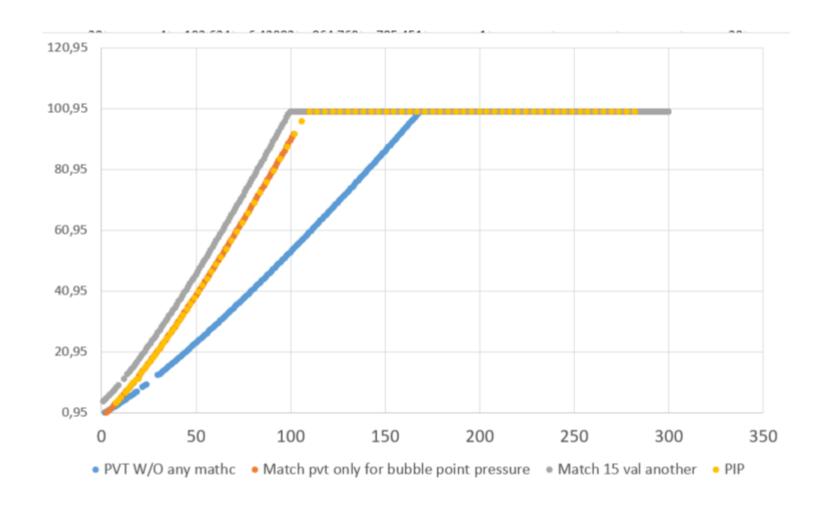
T = 30 C Pb = 131.725 BARA

OFVF



T = 30 C Pb = 131.725 BARA

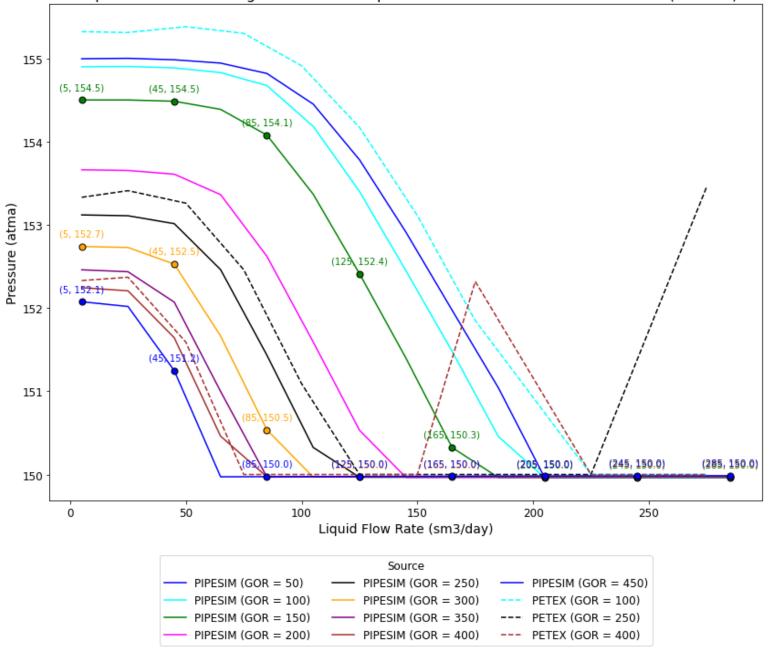
GOR



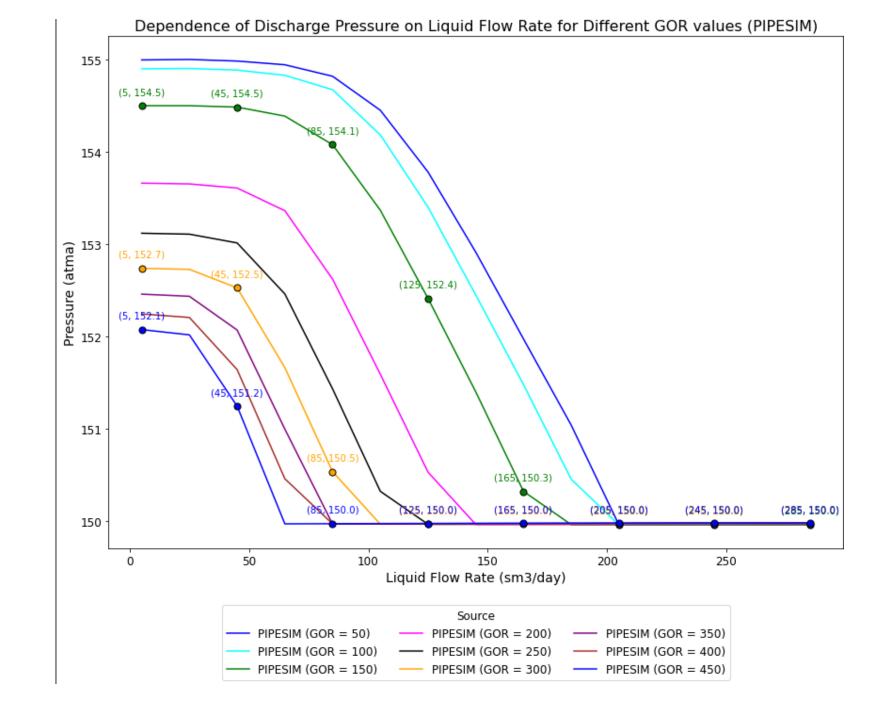
T = 30 C Pb = 131.725 BARA

Dependence of Discharge Pressure on Liquid Flow Rate for Different GOR values (PIPESIM)

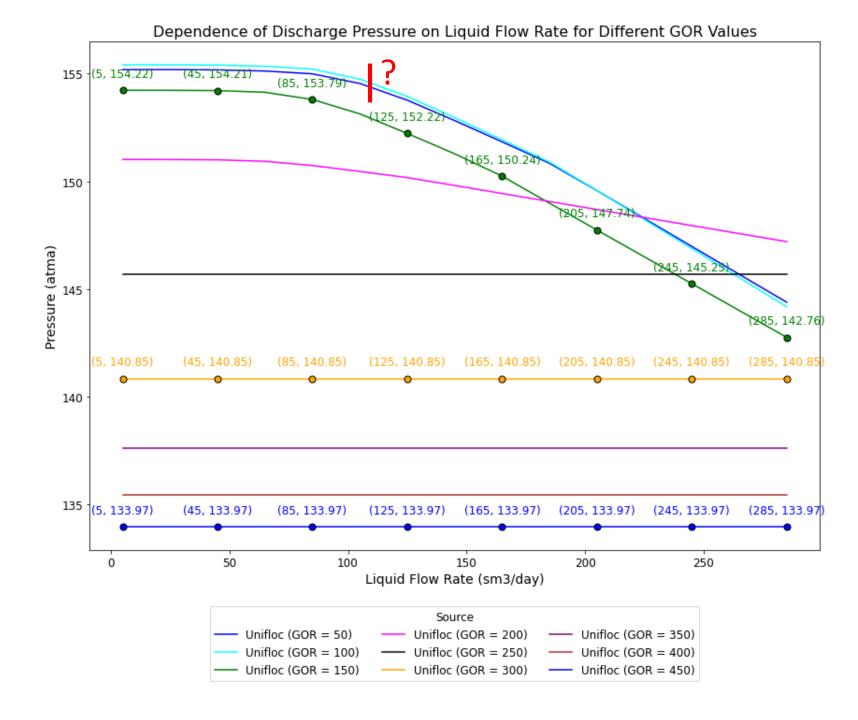
Pdis



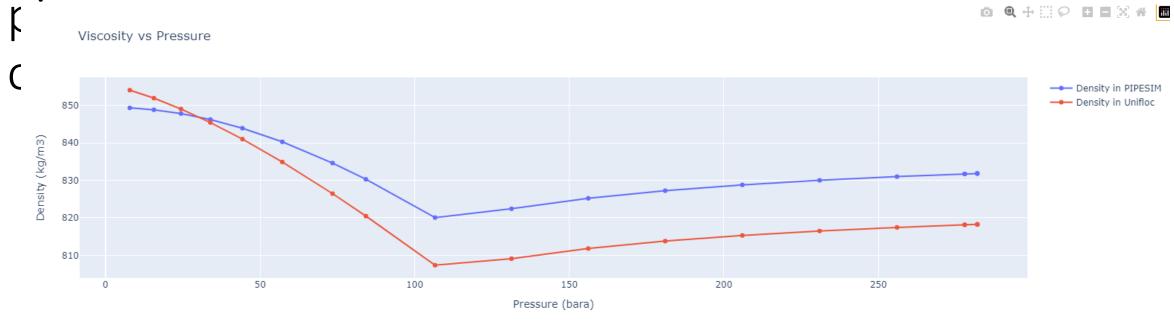
Pdis pip only

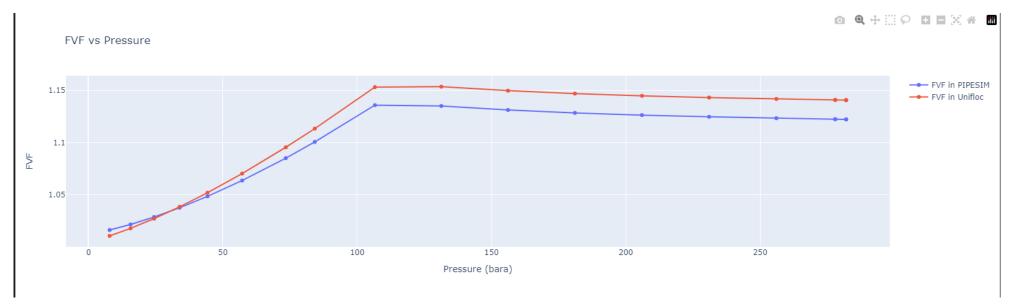


Unifloc pip only



Unifloc





Solution Gas vs Pressure

