



**Results:**

Object	RECYCLE	L	9	8 (WATER)	7	6 (PRODUCTS)	
Temperature	310.92778	810.9278	366.4833	366.4833	366.4833	366.4833	K
Pressure	92350	92350	92350	92350	92350	92350	Pa
Mass Flow	1.61607	0	1.61607	0.16206	1.77813	0.32866	kg/s
Molar Flow	120.59454	0	120.5945	8.99574	129.5903	23.9527	mol/s
Molar Fraction (Mixture) / Carbon monoxide	0.11646	0	0.11646	0	0.10837	0.10837	
Molar Fraction (Vapor Phase) / Hydrogen	0.28911	0	0.28911	0	0.26904	0.26904	
Molar Fraction (Mixture) / Methane	0.58446	0	0.58446	0	0.54389	0.54389	
Molar Fraction (Mixture) / Water	0.00997	0	0.00997	1	0.07869	0.07869	
Object	5	4	3	2	10	1 (FEED)	
Temperature	366.4833	533.15	810.9278	326.7173	310.9278	366.4833	K
Pressure	92350	92350	92350	92350	92350	92350	Pa
Mass Flow	2.10679	2.10679	2.10679	2.10678	1.61607	0.49015	kg/s
Molar Flow	153.543	153.543	153.543	175.175	120.5945	54.6161	mol/s
Molar Fraction (Mixture) / Carbon monoxide	0.10837	0.10837	0.10837	0.15673	0.11646	0.24618	
Molar Fraction (Vapor Phase) / Hydrogen	0.26904	0.26904	0.26904	0.42105	0.28911	0.71394	
Molar Fraction (Mixture) / Methane	0.54389	0.54389	0.54389	0.41498	0.58446	0.03988	
Molar Fraction (Mixture) / Water	0.07869	0.07869	0.07869	0.00723	0.00997	0	

Table 1: Streamwise Results for Production of Methane Flowsheet