

SECTION 3: Basis Of Design

3.1. Inlet Condition

This plant has been designed on the basis following inlet feed rate, analysis and flowing conditions:

Feed Analysis:

component	Design
	Mol fraction
H2	0.0000
Helium	0.0000
Nitrogen	0.0002
CO ₂	0.0011
H2S	0.0000
Methane	0.0492
Ethane	0.0656
Propane	0.1031
i-Butane	0.0295
n-Butane	0.0824
i-Pentane	0.0352
n-Pentane	0.0441
n-Hexane	0.0602
n-Heptane	0.0918
Octane	0.1007
Nonane	0.0664
Decane	0.2703
H2O	0.0002

Design Condition

Inlet condensate Flow Rate: 5,953 BBL/Day

Inlet Pressure: 159 Psig

Inlet Fluid Temperature: 39°F

Hydrocarbon density: 43.1 lb/ft³