

NGL / LPG Plant for Sale

Capacity

Design 45 MMSCFD Minimum 6 MMSCFD Maximum 50 MMSCFD

Inlet Gas

Natural gas containing large quantity of CO2 (up to 86 mole %)

Products

Natural gas liquids (propane, Y grade) Condensates Residual fuel (pipeline quality)

Plant History

1996 Commissioned 2019 Shut down

Major Equipment

Glycol / glycol exchanger Dehydrator beds (4) Inlet gas compressors (2) Propane compressors (4)

Propane recovery column

PRC reboiler

PRC reflux condenser & accumulattor

PRC side & bottom coolers

Stabilizer column

Stabilizer reboiler

Demethanizer

NGL condenser

NGL treater

Propane condenser

Propane economizer

Refrigeration subcoolers (2)

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BRIEF PLANT DESCRIPTION

This plant is designed for two purposes: (1) remove CO2; (2) convert hydrocarbons to liquid petroleum gas / natural gas liquid products. The plant consists of several process sections: dehydration, compression, propane recovery column, demethanizer, refrigeration, hot oil and drain. Inlet gas goes to tri-ethylene glycol (TEG) dehydration unit to remove water. Dried, compressed and cooled gas goes to propane recovery column (PRC). The PRC is a column containing 67 bubblecaped trays and 2 chimney trays, and provided with a partial condenser using propane refrigerant. It separates CO2 from hydrocarbon in the inlet gas using absorption and cryogenic fractionation. The PRC overhead is sent to the reflux accumulator where liquids and gas are separated. The vapor steam goes to the demethanizer that is an 8-trayed column. Liquid accumulating in the base of the demethanizer is CO2 product. The overhead vapor from the demethanizer goes to a reflux accumulator and then to gas/gas exchanger as residue gas and is utilized as plant fuel gas. The bottom from the PRC is a heavy product composed mostly of C5+, that is discharged to the gas/gas exchanger. The PRC also produces natural gas liquids (NGL) from the middle of the column. The condensate stabilizer column separates the NGL to propane / butane mix and stabilizer condensate. The heat for the condensate stabilizer column is provided by the hot oil system of the plant.