

# KOCKEN

## SISTEMAS DE ENERGIA INC.

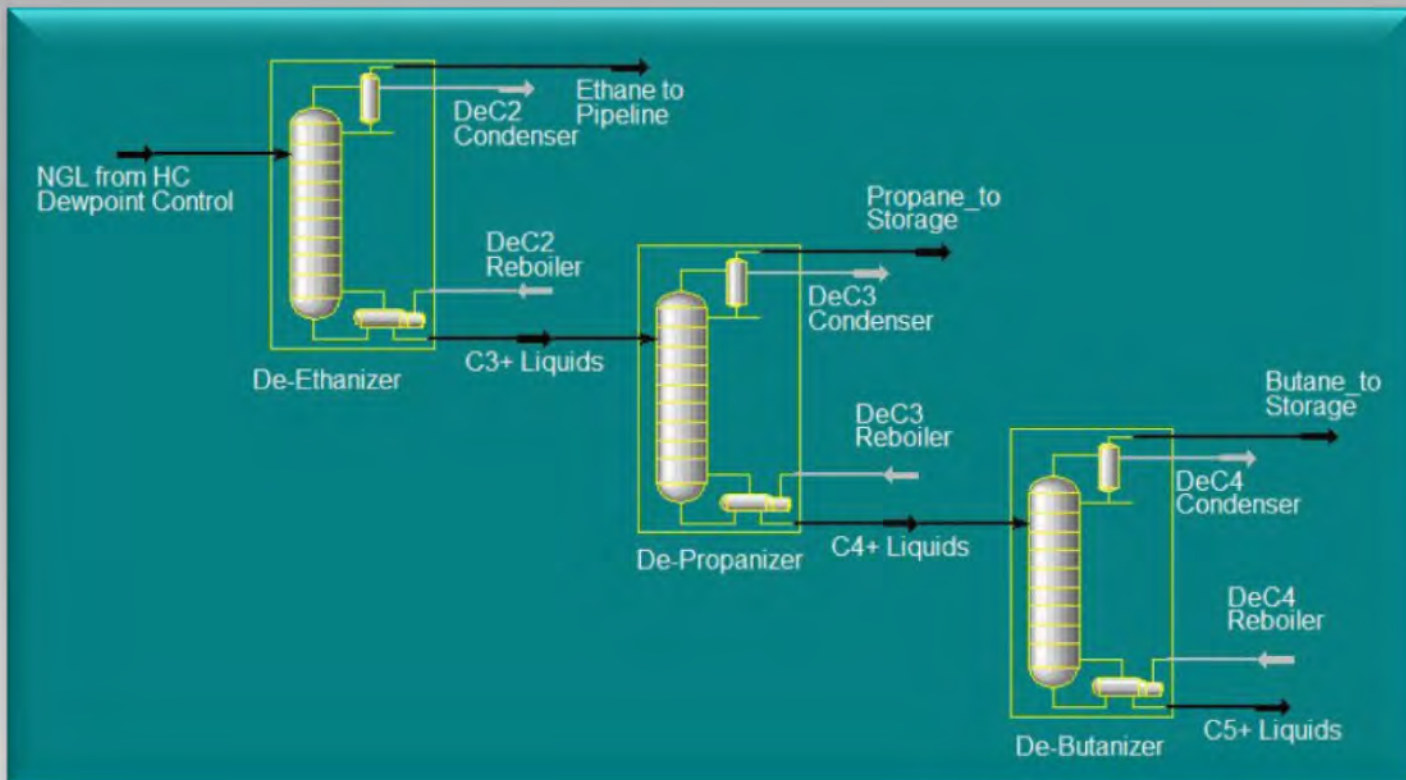
### RECOVERY OF NATURAL GAS LIQUIDS



Natural gas liquids (NGL's) are liquid hydrocarbons that are recovered from natural gases in. They include ethane, propane, butanes, pentanes and heavier components. Recovery of NGL's is generally applied as an extension of; and, therefore is integral with Hydrocarbon Dewpoint Control. A wide variety of processing options exists for the hydrocarbon liquids.

KOCKEN Sistemas de Energia Inc. offers a wide variety of processing options including:

- Stabilization C<sub>5</sub>+ (condensate) product
- Lean Oil Absorption
- Stabilization of C<sub>3</sub>/C<sub>4</sub> product
- Ethane Extraction



PFD for Typical NGL Fractionation Train

DESIGN PARAMETERS		GAS COMPOSITION	
Gas Flow Rate		C <sub>1</sub>	
Free HC Liquids Content		C <sub>2</sub>	
Inlet Temperature		C <sub>3</sub>	
Inlet Pressure		C <sub>4</sub>	
Pipeline Pressure		C <sub>5</sub>	
Stabilized Product Req'd		C <sub>6</sub>	
RVP of Product Req'd		C <sub>7</sub>	
Recovery Percentage Req'd		C <sub>8</sub> +	
LPG Mixture Req'd		CO <sub>2</sub>	
Residue Gas Destination		H <sub>2</sub> S	

# APPLYING WORLD CLASS TECHNOLOGIES IN PURSUIT OF SUPERIOR EFFICIENCY

3700 - 400 3RD Ave. S.W.  
Calgary, AB Canada T2P 4H2  
Tel: + 780 468 5007

info@kockenenergia.com

Bldv. Adolfo Ruiz Cortines No. 444-B  
Entre Calle 5 y 7, Fracc. Costa Verde,  
Boca del Rio, Veracruz CP 94294 México  
Tel + 52 22 99 25 40 13  
preguntas@kockenenergia.com

Pine Grove Centre  
305 Highway 10, PO Box 60  
Bridgewater, NS Canada B4V 2W6  
Tel: + 902 527 2000  
info@kockenenergia.com

