

EXHIBIT #12

Design Period	Refinery Fuel Gas - U233					Refinery Fuel Gas - A					Butane Currently Recovered for Sale ⁴	
	Flow ¹		Propane		Butane	Flow ¹		Propane		Butane	Butane Currently Recovered for Sale ⁴	
	MSCFD	mol % ²	BPD	mol % ²	BPD	MSCFD	mol % ³	BPD	mol % ³	BPD	BPD	BPD
August 2011	36,582	9.9	2,388	9.8	2,839	27,269	17.8	3,192	10.0	2,157	4,898	15,474

Propane and butane obtained from two refinery fuel gas streams: U233 and RFG-A.

1. Flowrate obtained from continuous flowmeter data.

2. Mol % based on daily lab results

3. Mol % based on on-line continuous gas chromatograph (GC) results

4. Butane recovered for sale obtained from continuous flowmeter data.

Calculations

BPD of LPG = (Gas Flow [mscf] x 1000 [scfd/mscf] x mol %/100 x MW [lb/lb-mol]) / (379.5 [scf/lb-mol] x liquid density [lb/gal] x 42 [gal/bbl])

where:

MW = molecular weight, propane = 44 lb/lb-mol and butane = 58 lb/lb-mol

Propane liquid density = 4.2 lb/gal

Butane liquid density = 4.6 lb/gal

379.5 scf/lb-mol is the specific molar volume of an ideal gas at 60 F

BPD=Barrels Per Day

Figure 3-7
Refinery Fuel Gas: Actual Propane and Butane Production
August 2011