

ANEXO 2

PLANTA_DE_GAS_ENFRIAMIENTO_1-MASA - Aspen HYSYS V7.1 - aspenONE - [GAS GEN. & SERVICIOS]


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Stream Name	GAS GEN. & SEF	Vapour Phase
Molecular Weight	28.37	28.37
Molar Density [lbmole/ft ³]	1.479e-002	1.479e-002
Mass Density [lb/ft ³]	0.4196	0.4196
Act. Volume Flow [barrel/day]	1.970e+004	1.970e+004
Mass Enthalpy [Btu/lb]	-1355	-1355
Mass Entropy [Btu/lb-F]	1.444	1.444
Heat Capacity [Btu/lbmole-F]	12.40	12.40
Mass Heat Capacity [Btu/lb-F]	0.4372	0.4372
Lower Heating Value [Btu/lbmole]	5.783e+005	5.783e+005
Mass Lower Heating Value [Btu/lb]	2.038e+004	2.038e+004
Phase Fraction [Vol. Basis]	<empty>	1.000
Phase Fraction [Mass Basis]	4.941e-324	1.000
Partial Pressure of CO ₂ [psig]	-14.61	<empty>
Cost Based on Flow [Cost/s]	0.0000	0.0000
Act. Gas Flow [ACFM]	76.80	76.80
Avg. Liq. Density [lbmole/ft ³]	0.8740	0.8740
Specific Heat [Btu/lbmole-F]	12.40	12.40
Std. Gas Flow [MMSCFD]	0.6207	0.6207
Std. Ideal Liq. Mass Density [lb/ft ³]	24.79	24.79
Act. Liq. Flow [USGPM]	<empty>	<empty>
Z Factor	0.9544	0.9544
Watson K	16.89	16.89
User Property	<empty>	<empty>
Cp/(Cp - R)	1.191	1.191
Cp/Cv	1.233	1.233
Heat of Vap. [Btu/lbmole]	7883	<empty>
Kinematic Viscosity [cSt]	1.418	1.418
Liq. Mass Density (Std. Cond) [lb/ft ³]	<empty>	<empty>
Liq. Vol. Flow (Std. Cond) [barrel/day]	<empty>	<empty>
Liquid Fraction	0.0000	0.0000

Property Correlation Controls

Preference Option: Active

ANEXO 3

1	 TWISTER BV Calgary, Alberta CANADA		Case Name: I:\35 Studies\1153_CO_Gasmocam_Gibraltar Dewpointing\10 Hysys\115		
2			Unit Set: Field1		
3			Date/Time: Fri May 09 16:05:59 2008		
4					
5	Material Stream: 25		Fluid Package: Basis-1		
6			Property Package: Peng-Robinson		
7					
8	CONDITIONS				
9		Overall	Vapour Phase	Liquid Phase	
10					
11	Vapour / Phase Fraction	1.0000	1.0000	0.0000	
12	Temperature: (F)	52.20	52.20	52.20	
13	Pressure: (psia)	217.6	217.6	217.6	
14	Molar Flow (MMSCFD)	0.8412	0.8412	0.0000	
15	Mass Flow (lb/hr)	2253	2253	0.0000	
16	Std Ideal Liq Vol Flow (barrel/day)	408.0	408.0	0.0000	
17	Molar Enthalpy (Btu/lbmole)	-4.017e+004	-4.017e+004	-6.678e+004	
18	Molar Entropy (Btu/lbmole-F)	39.21	39.21	21.75	
19	Heat Flow (MMBtu/hr)	-3.711	-3.711	0.0000	
20	Liq Vol Flow @Std Cond (barrel/day)	---	---	0.0000	
21					
22	PROPERTIES				
23		Overall	Vapour Phase	Liquid Phase	
24					
25	Molecular Weight	24.39	24.39	62.48	
26	Molar Density (lbmole/ft3)	4.328e-002	4.328e-002	0.6097	
27	Mass Density (lb/ft3)	1.056	1.056	38.09	
28	Act. Volume Flow (barrel/day)	9122	9122	0.0000	
29	Mass Enthalpy (Btu/lb)	-1647	-1647	-1069	
30	Mass Entropy (Btu/lb-F)	1.608	1.608	0.3481	
31	Heat Capacity (Btu/lbmole-F)	11.65	11.65	33.35	
32	Mass Heat Capacity (Btu/lb-F)	0.4777	0.4777	0.5338	
33	Lower Heating Value (Btu/lbmole)	4.762e+005	4.762e+005	1.214e+006	
34	Mass Lower Heating Value (Btu/lb)	1.953e+004	1.953e+004	1.944e+004	
35	Phase Fraction [Vol. Basis]	---	1.000	---	
36	Phase Fraction [Mass Basis]	2.122e-314	1.000	0.0000	
37	Partial Pressure of CO2 (psia)	6.645	---	---	
38	Cost Based on Flow (Cost/s)	0.0000	0.0000	0.0000	
39	Act. Gas Flow (ACFM)	35.57	35.57	---	
40	Avg. Liq. Density (lbmole/ft3)	0.9677	0.9677	0.5899	
41	Specific Heat (Btu/lbmole-F)	11.65	11.65	33.35	
42	Std. Gas Flow (MMSCFD)	0.8412	0.8412	0.0000	
43	Std. Ideal Liq. Mass Density (lb/ft3)	23.60	23.60	36.86	
44	Act. Liq. Flow (USGPM)	---	---	---	
45	Z Factor	---	0.9151	6.496e-002	
46	Watson K	17.05	17.05	13.45	
47	User Property	---	---	---	
48	Cp/(Cp - R)	1.205	1.205	1.063	
49	Cp/Cv	1.313	1.313	1.063	
50	Heat of Vap. (Btu/lbmole)	6464	---	---	
51	Kinematic Viscosity (cSt)	0.6368	0.6368	0.3559	
52	Liq. Mass Density (Std. Cond) (lb/ft3)	---	---	37.78	
53	Liq. Vol. Flow (Std. Cond) (barrel/day)	---	---	0.0000	
54	Liquid Fraction	0.0000	0.0000	1.000	
55	Molar Volume (ft3/lbmole)	23.10	23.10	1.640	
56	Mass Heat of Vap. (Btu/lb)	265.1	---	---	
57	Phase Fraction [Molar Basis]	1.0000	1.0000	0.0000	
58	Surface Tension (dyne/cm)	---	---	12.86	
59	Thermal Conductivity (Btu/hr-ft-F)	1.569e-002	1.569e-002	5.895e-002	
60	Viscosity (cP)	1.077e-002	1.077e-002	0.2172	
61	Partial Pressure of H2S (psia)	0.0000	---	---	
62	Cv (Semi-Ideal) (Btu/lbmole-F)	9.664	9.664	31.36	
63	Mass Cv (Semi-Ideal) (Btu/lb-F)	0.3963	0.3963	0.5020	
64	Cv (Btu/lbmole-F)	8.874	8.874	31.36	
65	Mass Cv (Btu/lb-F)	0.3639	0.3639	0.5020	
66	Cv (Ent. Method) (Btu/lbmole-F)	7.439	7.439	---	
67	Mass Cv (Ent. Method) (Btu/lb-F)	0.3051	0.3051	---	
68	Cp/Cv (Ent. Method)	1.566	1.566	---	
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