

cil/gus/twater separation use: multirstage separation train (1-4 stages)

multiple trains as needed (onshore)

1-2 trains (offshore)

interslage cooling/compression

Oil Out

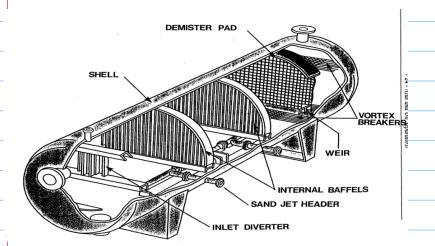
## Horizontal Separator Momentum Absorber Mist Extractor Out Inlet Oil

Liquid Retention

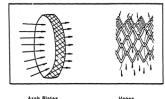
there phase horizontal separator

## TYPICAL MIST EXTRACTOR

Wire Mesh Pads



Water Out

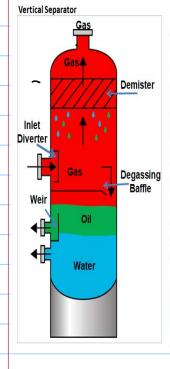


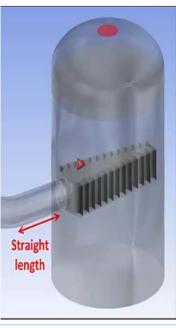


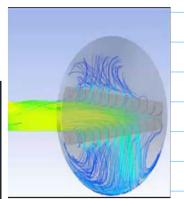




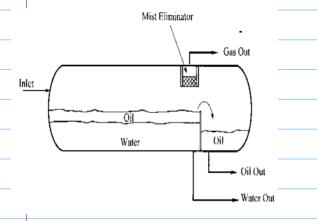


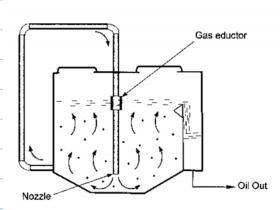






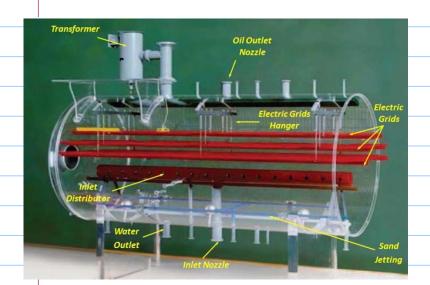
## evale treatment : • Skinn tank + degassing (onshove) • hydrocydones + flotation unit



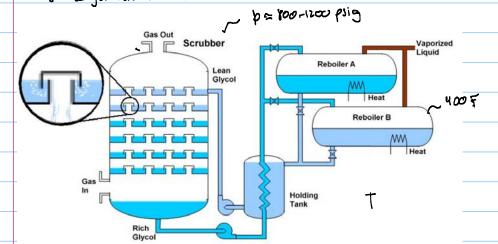


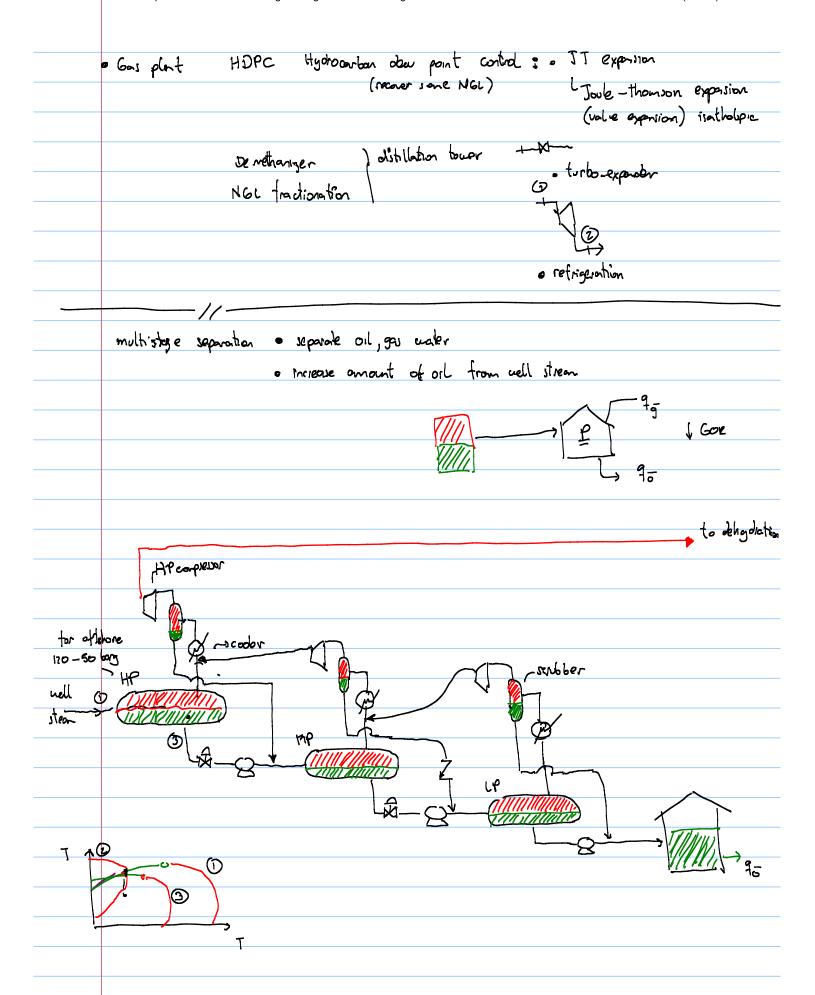
· oil dehipliation / desalting: electric coalescer

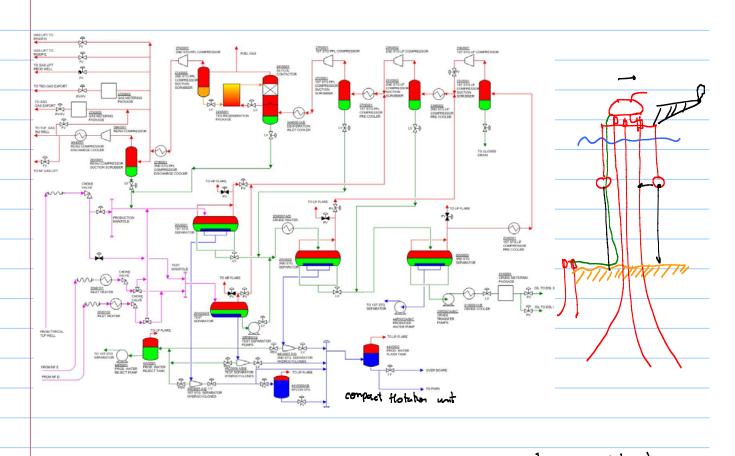
objalter = electric coalescer

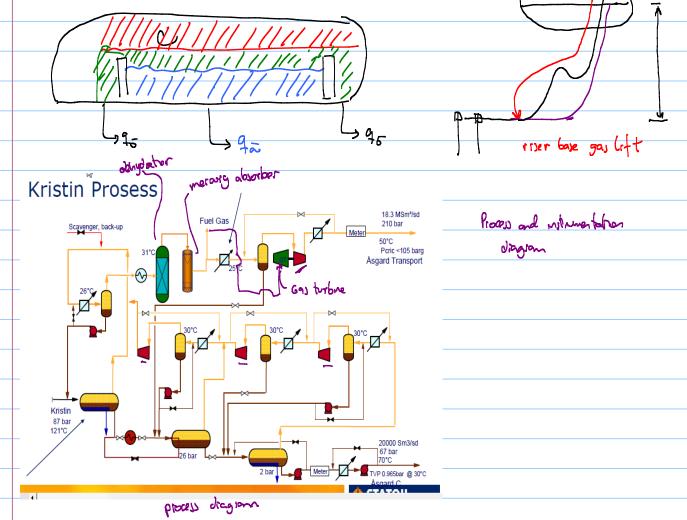


· Gas dhydrabon: TEG contactor

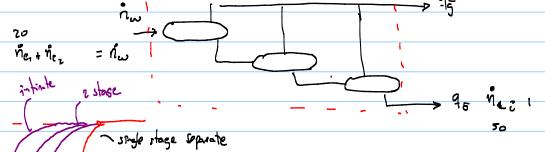




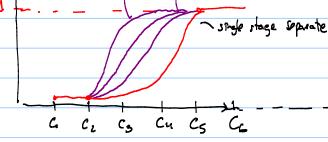








nil niw

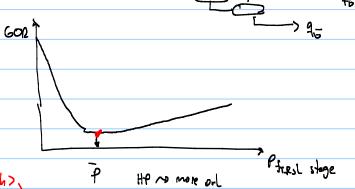


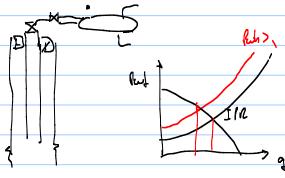
ford

Gol: 35

Gol: 35

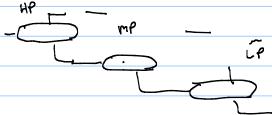
eflect of HP pressure
eflect of MP pressure
sizing of separator

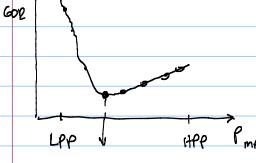


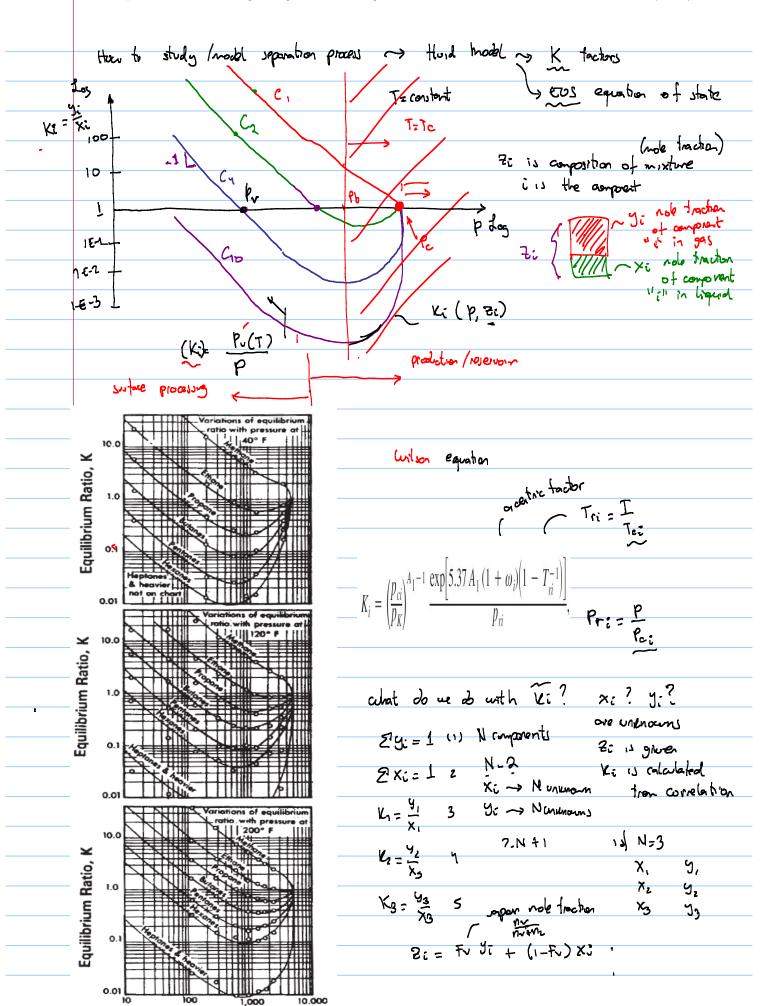


usually this is important for gas condesorte \$60R

. TIP separator pressure







method to solve the system of equations	no to awid iterating with
wowen to solve to go	composition No. , y:
	to iterate fu
2i = fv y; + (1-Fv)xi	
$V_{i} = \frac{y_{i}}{y_{i}}$	
×ů	
2; = Fo xi Ki + (1-Fo) Xi	
Zi = Xi (Fu Ki -Fu +1)	
Xi = ==================================	
(Fy Ki -Fv+1)	
Ex: =1	
29=1 (2(9;-x0)=0	
2 3 = x (Ki-1) = 0	
~ Rachtord -K	ice function
21 2: (Ki-1) = 0	
EL (F V. F L.)	

SEPARATIO	N PROCESS				
Stage	p	T	z-C1	z-C3	z-N-C10
[-]	bara	С	[-]	[-]	[-]
1-HP	50	70	0.5	0.2	0.3
2-MP	35	50	0.07679	0.22803	0.69518
3-LP	1.01325	15.56	0.06580	0.22901	0.70519
FLASH CALC	CULATIONS				
р	[bara]	1.01325			
Т	[C]	15.56			
	Í	v	0.222358		
Comp	zi	Ki (T)	RR_term	хi	yi
C1	0.06580	288.91824	2.91E-01	0.00101	0.29239
C3	0.22901	7.60289	6.13E-01	0.09278	0.70543
N-C10	0.70519	0.00241	-9.04E-01	0.90620	0.00218
		SUM=	-1.20E-06	1.00000	1.00000