

rule of thunb to determine plateau rate

Strist order estimation

for oil helds annual oftake = TRR, 0.1

total recoverable reserves with existing technology

TRR = TOTP(N). RF

TGTP(G)

21% 35% 50%

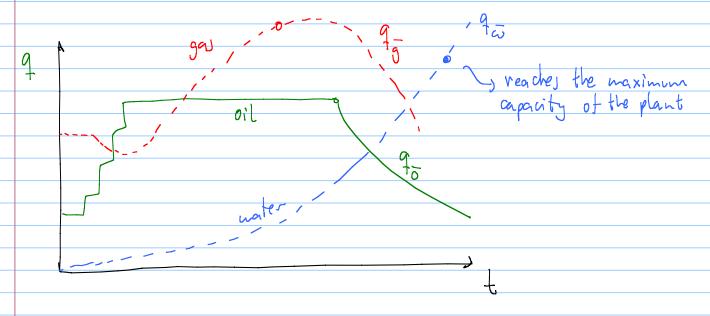
1970

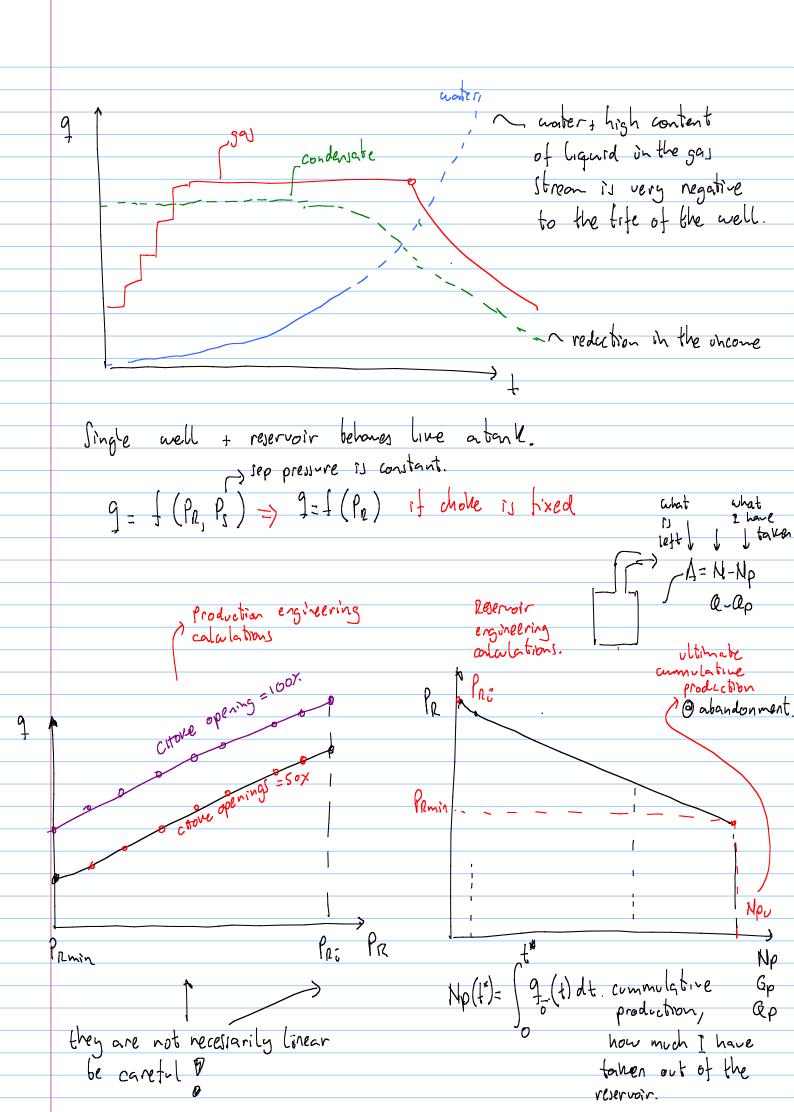
1990

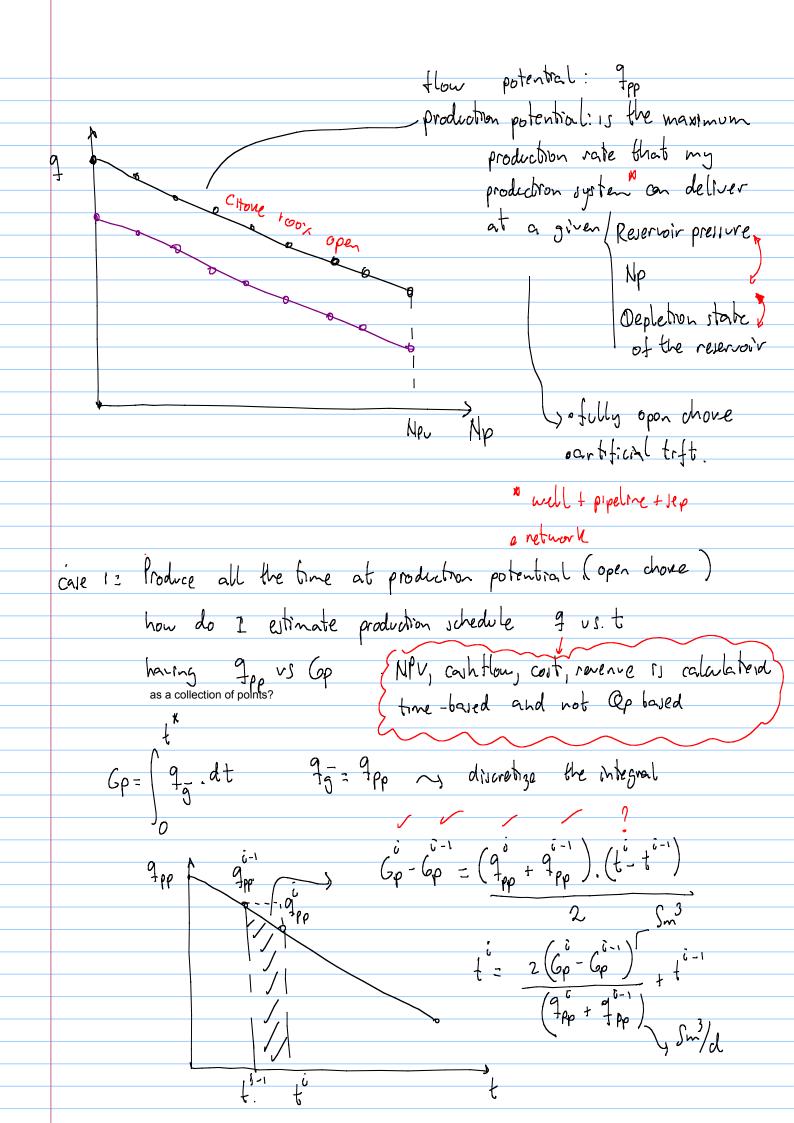
2010

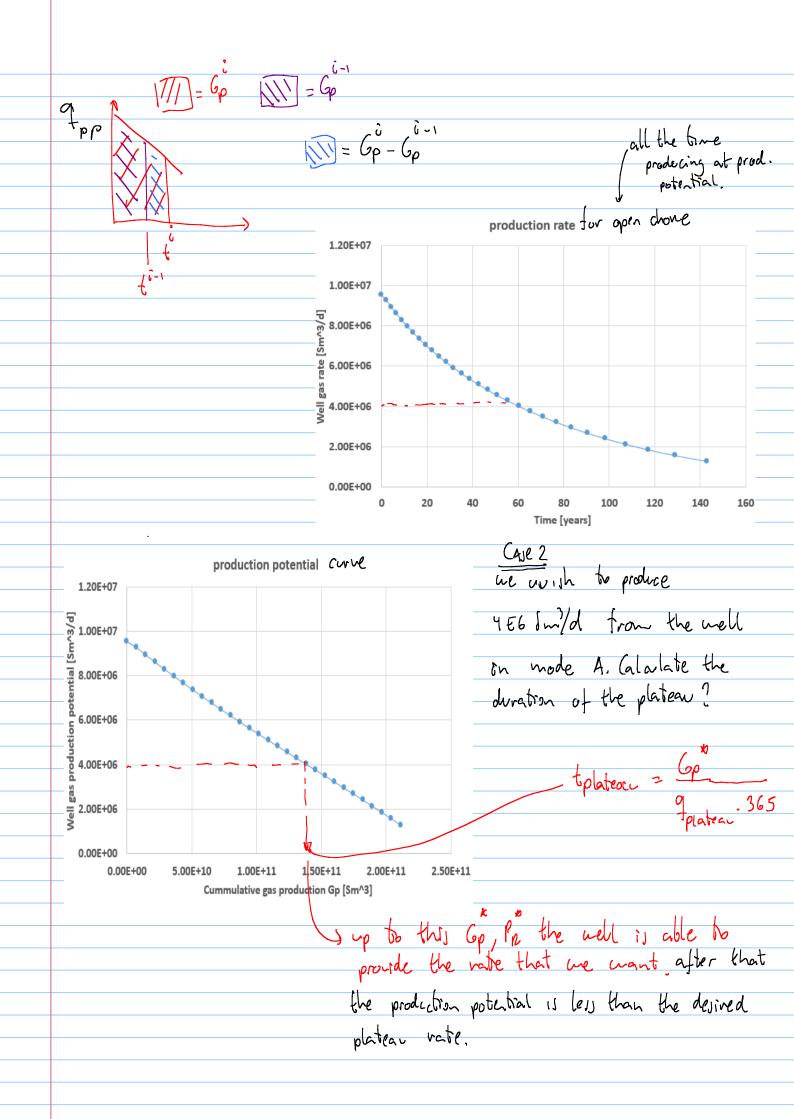
Associated fluids coming with the main production Hund should be also taken into account

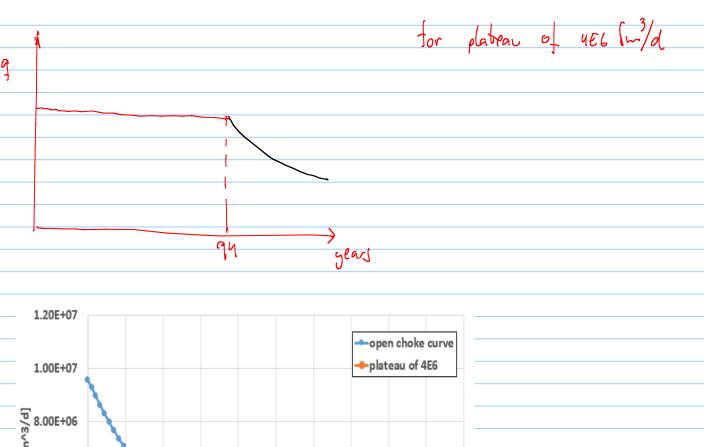
oil field so gov production, water production gas field so condensate, water production

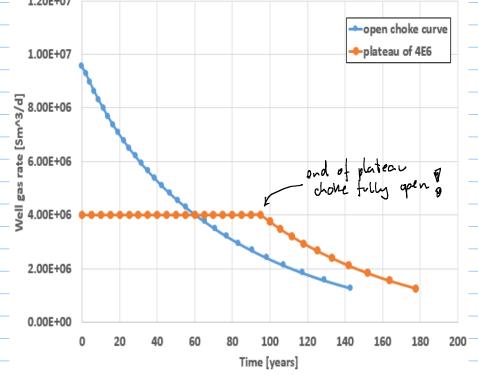












Estimating production profile for the full field

G= IGIP= 27E11 Sm3 RF=0.90

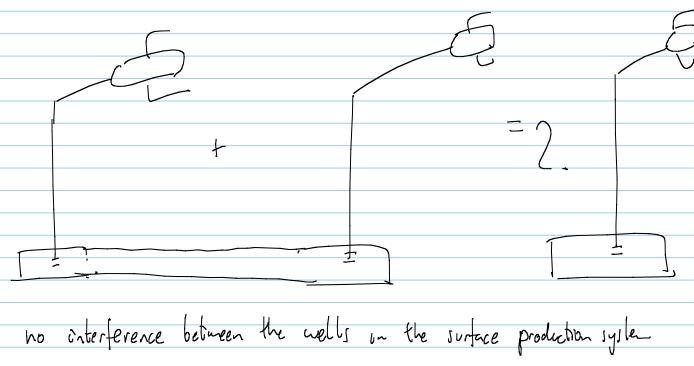
9 dateau = TRN. 0.035 = 0.90.7.7 E11.0.035 = 24 E6 Sm3/d
355 day/year 355

Single well rate (recommendation of the reservoir engineer, avoid sand production, erosion, etc.)

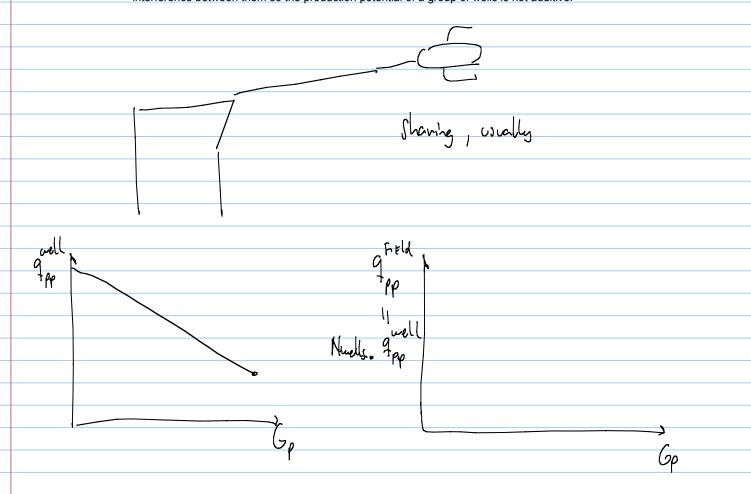
As a first approximation Nuells = 8

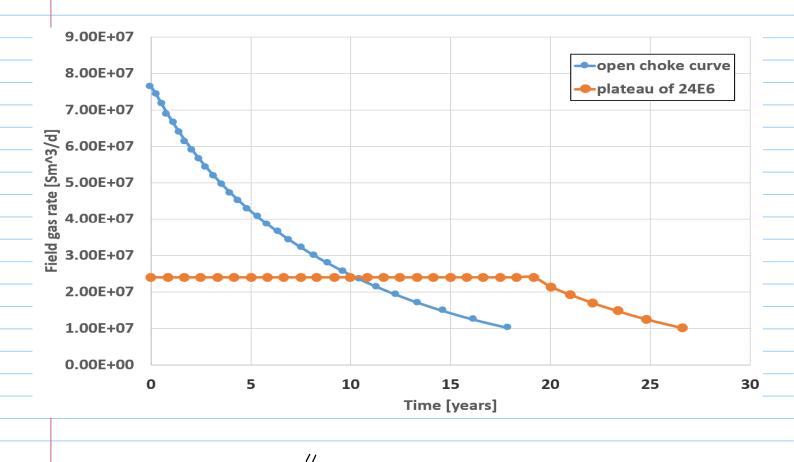
356 5-3/1

We will assume at this point that all wells are identical and that the production potential of a group of wells is just the production potential can single well multiplied by the number of wells

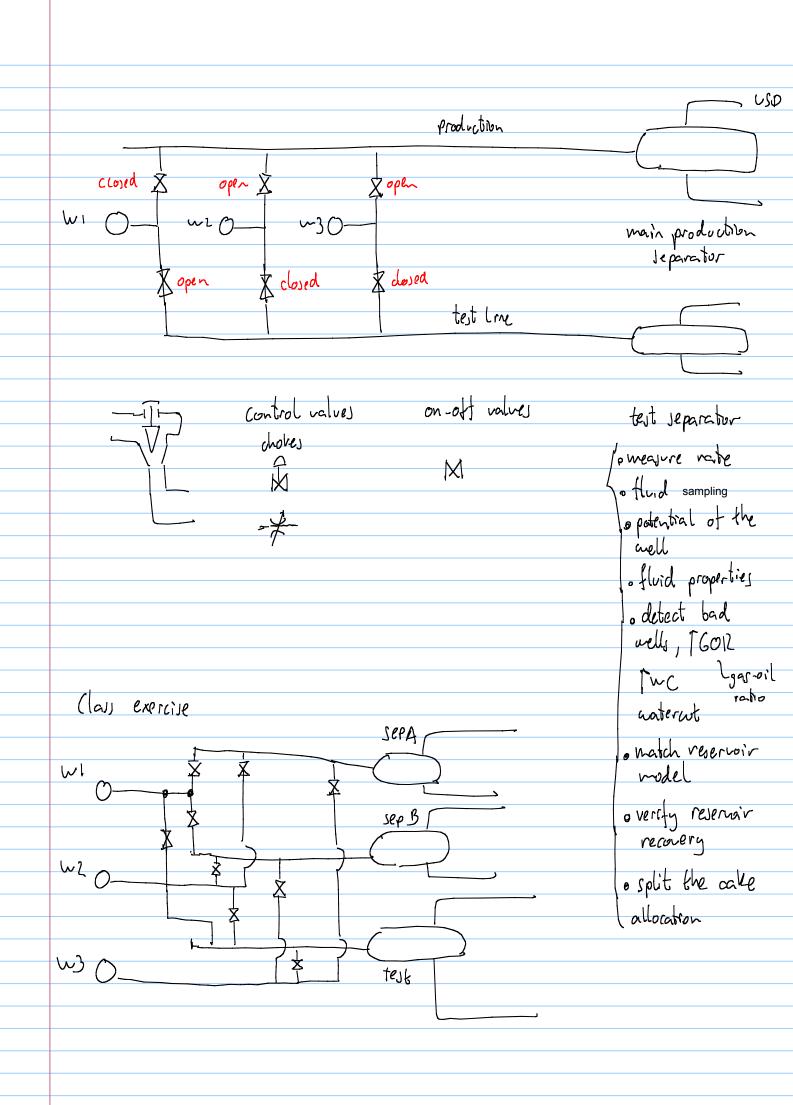


In reality, if the wells production is connected by flowlines and pipelines, there could be hydra interference between them so the production potential of a group of wells is not additive.





Arquitecture of the production system



## An Isometric view

Test and production manifolds on an Onshore field

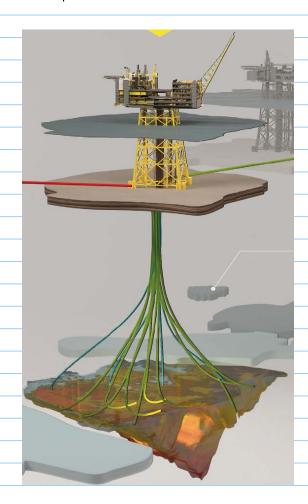


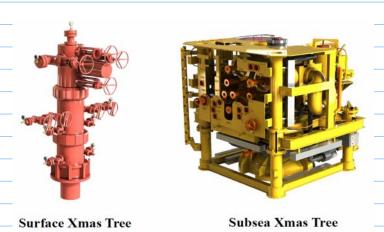




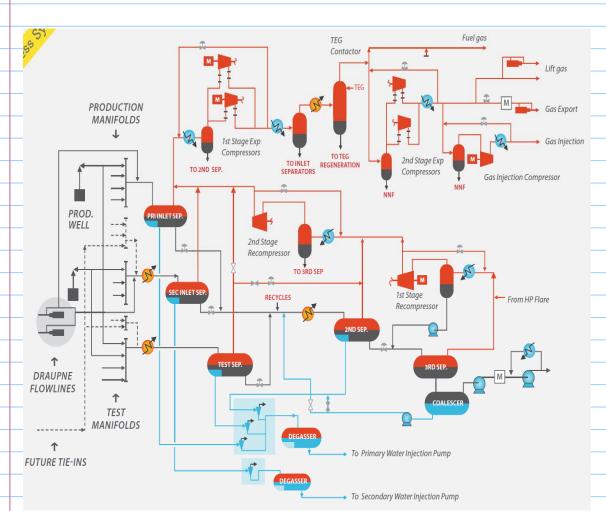
no need for separator, just production manifold and test manifold single phase oil + water measure ~ consolis neter

## Test and production manifolds on an offshore field





A dry christmas tree vs. a wet christmas tree



## Onshore fields and test separators

