

Wet Gas Reservoir

Natural Gas Reservoir with initial formation temperature $T_i > T_{c,max}$ above Cricondetherm $T_{c,max}$ and producing condensate at separator (i.e. the separator conditions staying inside Vapour Liquid Envelope, see Fig. 1).

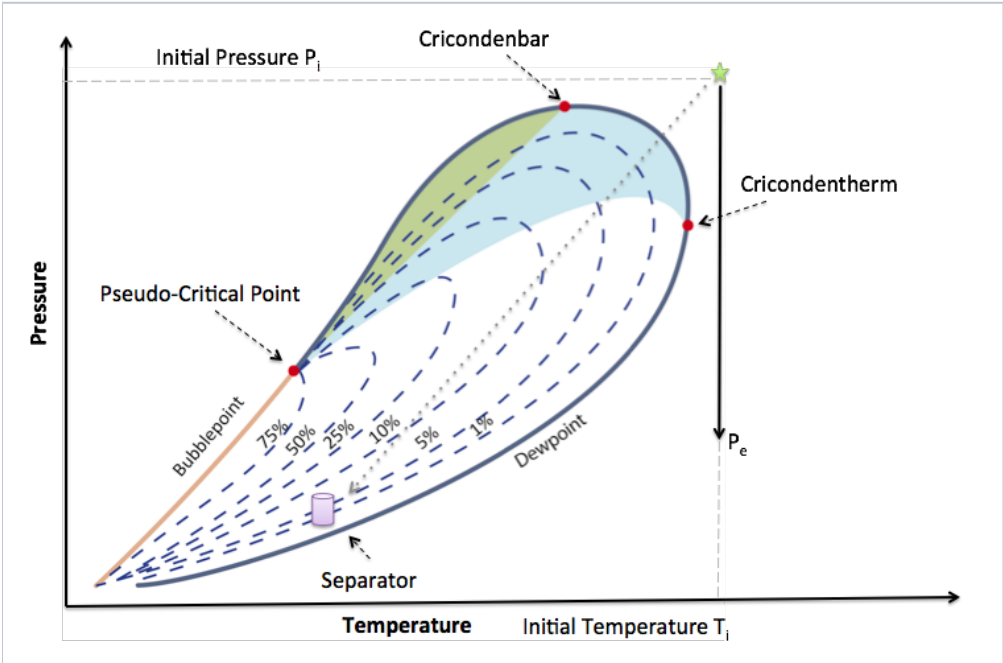


Fig. 1. Production path of the Wet Gas Reservoir on the Phase Equilibrium Diagram.

The downward solid black arrow shows a reservoir pressure depletion path.

The downward grey dash arrow shows a wellbore lift pressure drop path.

Table 1 – Example of Wet Gas composition (in mol %)

Substance	Wet Gas
CO ₂	1.41
N ₂	0.25
C ₁	92.46
C ₂	3.18
C ₃	1.01
i C ₄	0.28
n C ₄	0.24
i C ₅	0.13

$n\text{ C}_5$	0.08
C_{6s}	0.14
C_{7+}	0.82
R_s (SCF/STB)	69,000
R_v (STB/MMSCF)	15
API gravity	65.0
M_{7+}	132
7+	0.750

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References

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