

Retrograde Gas Condensate Reservoir

Petroleum Reservoir that reside in reservoirs with the original temperatures lying between the **pseudo-critical temperature** T_{pc} and the **Cricondentherm** T_{max} .

Natural Gas Reservoir with **initial formation temperature** T_i lying between the **pseudo-critical temperature** T_{pc} and the **Cricondentherm** $T_{c,max}$, which initially stays **gaseous** (outside **Vapour Liquid Envelope**) and builds **condensate** at **sepa** **rator** (inside **Vapour Liquid Envelope**, see **Fig. 1**).

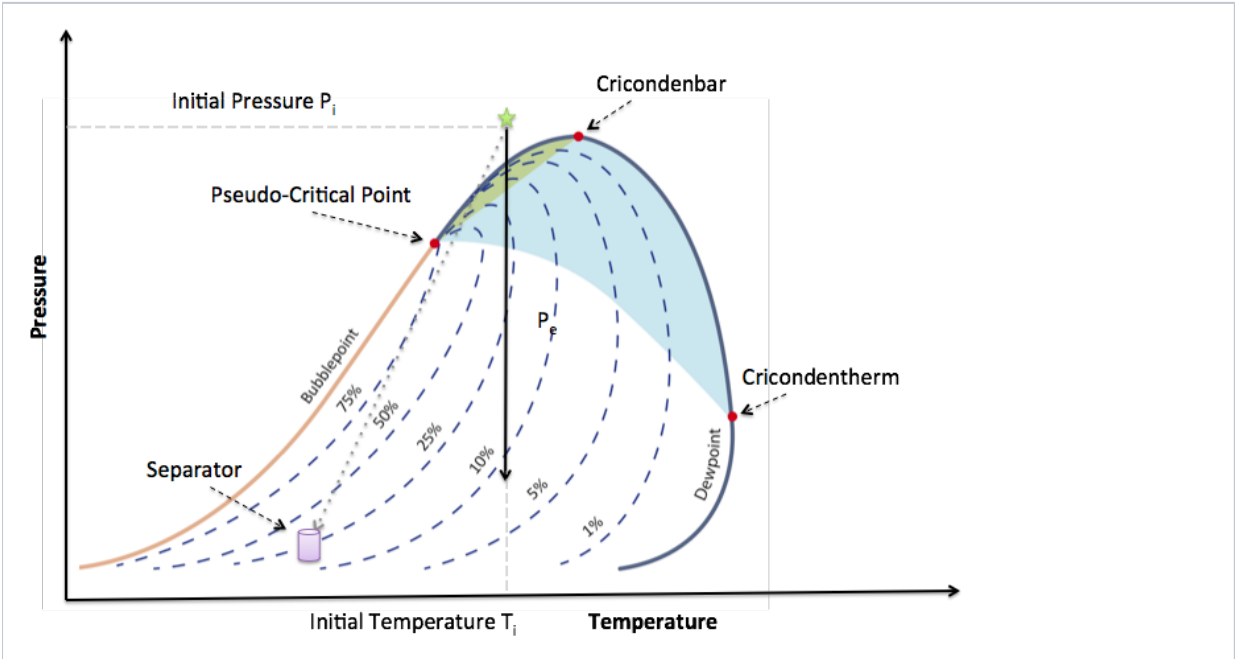


Fig. 1. Production path of the **Retrograde Gas Condensate Reservoir** on the **Phase Equilibrium Diagram**.

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 **Condensate composition** (in **mol %**)

Substance	Condensate
CO ₂	2.37
N ₂	0.31
C ₁	73.19
C ₂	7.80
C ₃	3.55
i C ₄	0.71

<i>n</i> C ₄	1.45
<i>i</i> C ₅	0.64
<i>n</i> C ₅	0.68
C _{6s}	1.09
C ₇₊	8.21
Rs (SCF/STB)	5965
Rv (STB/MMSCF)	165
API gravity	48.5
M ₇₊	184
7+	0.816

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References

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