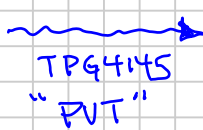


RESERVOIR

①

HCPV
PV
V_b



RECOVERY

②

Surface Products
• Surface Oil
Stock Tank Oil } \bar{o}
 $q_{\bar{o}}$
• Surface Gas \bar{g}

Energy :

6 Mscf ~ 1 STB
2.5 \$/Mscf \$70/STB
\$15/BOE

METHODS

③

- Volumetric Material Balance
- Darcy Flow Eq.

• Barriers (No Flow)

- Types

- Importance (Flow Communication | Well Placement | Gravity)

• Mapping

- Structure

- Isopach

- ϕ , k , S_w , "Net" (NGR), P_c

- Initial Pressures & Temperatures (& Fluids)

RESERVOIR FLOW UNITS (RFU)



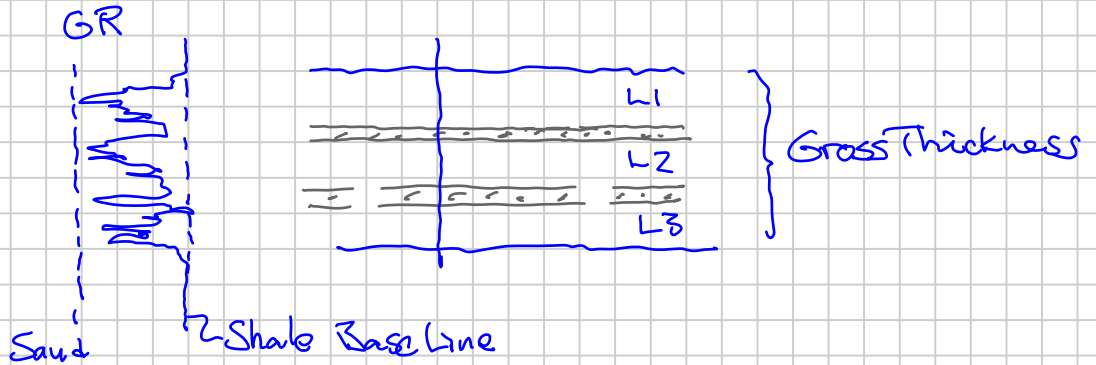
Reservoir volumes that are not connected or do not have flow between themselves, caused by two types of flow barriers:

- (1) Fault : (a) sealing fault $k_f = 0$ } Always Consider both cases
- (b) leaky fault $k_f > 0$ }

- (2) Very-low k rock, normally shale

Important in defining "non-net pay"

Define "very low"



net thickness (rock) \Rightarrow yields recovery of HC's