

Petroleum Reservoir Classification

Gas Reservoir		
	Dry Gas Reservoir	$STOIIP = 0$
	Gas Reservoir with Oil Rim	$(STGIIP - STOIP \cdot R_s) \cdot GOE > STOIP$
Condensate Reservoir		
Saturated Oil Reservoir		
	Saturated Oil with Gas Cap Reservoir	$P_i \leq P_b$, $GOC < Z_{top}$
	Saturated Oil w/o Gas Cap Reservoir	$P_i \leq P_b$, $GOC > Z_{top}$, $(STGIIP - STOIP \cdot R_s) \cdot GOE \leq STOIP$
Near Critical Oil Reservoir		
	Near Critical Very Low Gas Oil Reservoir	$P_b < P_i < P_b + 1\%$, $R_s \leq 15 \text{ m}^3/\text{m}^3$, $R_v = 0$
	Near Critical Low Gas Oil Reservoir	$P_b < P_i < P_b + 1\%$, $15 \text{ m}^3/\text{m}^3 < R_s < 75 \text{ m}^3/\text{m}^3$, $R_v = 0$
	Near Critical Medium Gas Oil Reservoir	$P_b < P_i < P_b + 1\%$, $75 \text{ m}^3/\text{m}^3 < R_s < 150 \text{ m}^3/\text{m}^3$, $R_v = 0$
	Near Critical High Gas Oil Reservoir	$P_b < P_i < P_b + 1\%$, $150 \text{ m}^3/\text{m}^3 < R_s < 300 \text{ m}^3/\text{m}^3$, $R_v = 0$
	Near Critical Very High Gas Oil Reservoir	$P_b < P_i < P_b + 1\%$, $R_s \geq 300 \text{ m}^3/\text{m}^3$, $R_v = 0$
	Near Critical Volatile Oil Reservoir	$P_b < P_i < P_b + 1\%$, $R_v > 0$
Undersaturated Oil Reservoir		
	Undersaturated Very Low Gas Oil Reservoir	$P_i > P_b$, $R_s \leq 15 \text{ m}^3/\text{m}^3$, $R_v = 0$
	Undersaturated Low Gas Oil Reservoir	$P_i > P_b$, $15 \text{ m}^3/\text{m}^3 < R_s < 75 \text{ m}^3/\text{m}^3$, $R_v = 0$
	Undersaturated Medium Gas Oil Reservoir	$P_i > P_b$, $75 \text{ m}^3/\text{m}^3 < R_s < 150 \text{ m}^3/\text{m}^3$, $R_v = 0$
	Undersaturated High Gas Oil Reservoir	$P_i > P_b$, $150 \text{ m}^3/\text{m}^3 < R_s < 300 \text{ m}^3/\text{m}^3$, $R_v = 0$

	Undersaturated Very High Gas Oil Reservoir	$P_i > P_b$, $R_s \geq 300 \text{ m}^3/\text{m}^3$, $R_v = 0$
	Undersaturated Volatile Oil Reservoir	$P_i > P_b$, $R_v > 0$
Dead Oil Reservoir		$R_s = 0$

See Also

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