

Water Oil Balance Ratio = WOBR

Ratio of [Water Replenishment \(WR \)](#) to the [remaining oil reserves \(OR \)](#):

$$WOBR = \frac{WR}{OR} = \frac{\Omega_W^{\downarrow} \cdot Q_W^{\downarrow} - \Omega_W^{\uparrow} \cdot Q_W^{\uparrow}}{EUOR - Q_O^{\uparrow}}$$

where

$EUOR$	Estimated Ultimate Oil Recovery	$Q_O^{\uparrow}$	Cumulative oil production
$Q_W^{\uparrow}$	Cumulative water production	$\Omega_W^{\uparrow}$	Good water production share
$Q_W^{\downarrow}$	Cumulative water injection	$\Omega_W^{\downarrow}$	Good water injection share

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