

Water surface flowrate = qW

Volumetric flowrate of water measured at SPE Standard Conditions (STP).

Usually produced from water phase only.

For MBO fluid @model the water surface flowrate q_W is related to water sandface flowrate q_w as (see derivation):

$$(1) \quad q_W^\uparrow = \frac{q_w}{B_w}$$

where

B_w	formation volume factors between separator and sandface pressure/temperature conditions
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It relates to Liquid production rate at surface as:

$$(2) \quad q_W^\uparrow = Y_W q_L^\uparrow$$

See Also

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[[Well & Reservoir Surveillance](#)]

[[Sandface flowrates](#)] [[Oil sandface flowrate](#)] [[Gas sandface flowrate](#)] [[Water sandface flowrate](#)]

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