

# Watercut Diagnostics

**Synonym:** Watercut Diagnostics = WOR Diagnostics

Part of Production Analysis related to analyzing the production watercut dynamics and the possible reasons of its specific behaviour:

regular displacement, bottom-water encroachment, coning, thief water production via channeling or tubing /casing failure.

|                           | Time-based      | Saturation-based              | Recovery-based       | Cum water-based    | Rate-based                       | Injection-based |
|---------------------------|-----------------|-------------------------------|----------------------|--------------------|----------------------------------|-----------------|
| <b>Saturation</b>         |                 | Watercut Fractional Flow plot |                      |                    |                                  |                 |
| <b>Recovery</b>           |                 |                               | WOR vs Recovery plot |                    |                                  | WOR vs WOBR     |
| <b>Bad Water</b>          | Chan water plot | Watercut Fractional Flow plot |                      | WW plot + Y Y plot | qOW plot + WOIL plot + YLIQ plot | WOR vs NWR      |
| <b>Non-uniform Sweep</b>  |                 | Watercut Fractional Flow plot |                      | WW plot + Y Y plot | qOW plot + WOIL plot + YLIQ plot |                 |
| <b>Waterflood pattern</b> |                 |                               |                      | WW plot + Y Y plot |                                  |                 |

## See Also

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[Petroleum Industry](#) / [Upstream](#) / [Production](#) / [Subsurface Production](#) / [Field Study & Modelling](#) / [Production Analysis](#)

[ [Good Water](#) ] [ [Bad Water](#) ] [ [Water cut \(Yw\)](#) ] [ [WOR](#) ]

[ [Watercut \(Yw\) Fractional Flow @model](#) ] [ [Watercut Chan plot](#) ]

[ [Waterflood Diagnostics](#) ][ [WOR vs WOBR @model](#) ][ [WOR vs NWR @model](#) ]