



Applications and benefits

Horizontal Flow diagnostics are designed to help asset teams solve daily challenges with confidence and certainty. Whether its locating water or gas breakthrough, understanding fractures, or maintaining an accurate reservoir model, Horizontal Flow delivers the insights needed by asset teams to keep well and reservoir performance on track.

The range of applications and benefits delivered by Horizontal Flow are perfectly aligned with the needs of Reservoir Engineers in managing reservoir performance, and Production Engineers in managing well performance. The accurate reservoir flow profiles from Horizontal Flow are fundamental to driving both.

Asset performance / Asset teams

Applications	Benefits
Accessing reliable flow profiles	Increase ultimate recovery
Locating water/gas breakthrough	Reduce opex and cost per barrel
Maintaining an accurate reservoir model	Reduce CO2 emissions
Measuring effective pay length	Optimise life-of-asset production
Making accurate reserves assessments	Extend economic asset life
Revealing crossflow	Minimise water or unwanted gas
Assessing ICD's and packers	Maintain or increase production capacity
Locating and assessing fractures	Maintain well integrity
Maintaining well integrity	Improve dynamic reservoir model
Understanding well system dynamics	Improve sweep efficiency
Making production forecasts	Optimise reservoir and well completion strategies
History matching	Understand and optimise drive mechanisms
	Optimise fracture programmes
	Identify thief zones and reduce injected water
	Better asset management decisions
	Better asset performance
	Economic benefits
	Reduce opex and unit cost per barrel
	Increase cashflow, NPV, PIR and IRR
	Accurate reserves assessment
	Environmental benefits
	Reduce CO2 emissions
	Reduce water injection
	Reduce water production
	Reduce unwanted gas production and flaring
	Minimise energy consumption

Reservoir performance / Reservoir Engineers

Applications	Benefits
Locating water/gas breakthrough	Increase ultimate recovery
Maintaining an accurate reservoir model	Maintain or increase production capacity
Accessing reliable flow profiles	Reduce CO2 emissions
Locating and assessing fractures	Reduce opex and cost per barrel
Making accurate reserves assessments	Minimise water or unwanted gas
Revealing crossflow	Improve sweep efficiency
Making production forecasts	Accurate continuous flow profiles
Measuring effective pay length	Improve dynamic reservoir model
Understanding reservoir dynamics	Reduce uncertainty envelope
History matching	Validate dynamic reservoir model parameters
Locating and assessing fractures	Make accurate reserves assessments

Well performance / Production Engineers

Applications	Benefits
Accessing reliable flow profiles	Maintain or increase production capacity
Locating water/gas breakthrough	Optimise life-of-well production
Measuring effective pay length	Reduce CO2 emissions
Assessing ICD's and packers	Minimise water or unwanted gas
Locating and assessing fractures	Reduce opex and cost per barrel
Maintaining well integrity	Maintain well integrity
Making production forecasts	Increase ultimate recovery
Revealing crossflow	Extend economic well life
Assessing injection compliance	Accurate continuous flow profiles
Diagnosing flow in open hole	Optimise fracture programmes
Diagnosing flow in smart completions	Identify thief zones and reduce injected water
Understanding well system dynamics	Optimise completion designs
	Make accurate well production forecasts

