

What does RESMAN offer?

RESMAN tracer technology is a means of obtaining reservoir and well surveillance information without costly intervention operations or risky modifications to completion hardware.



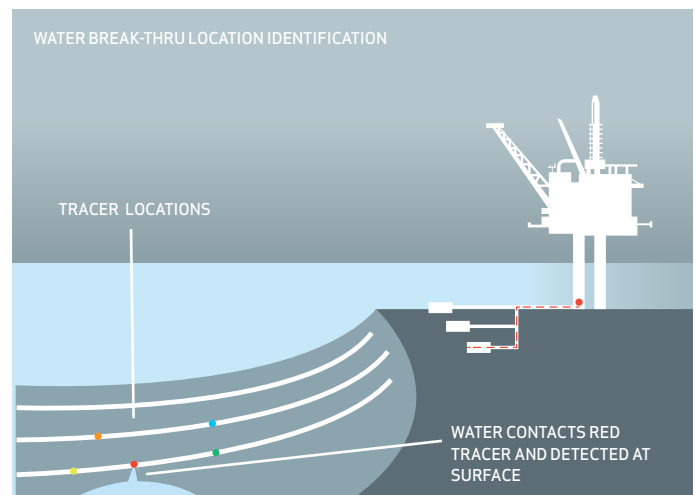
INSTALLING TRACERS
IN SPECIAL DESIGNED
CARRIER

How does RESMAN tracers work ?

RESMAN systems are strips of a plastic like material that are designed to release a unique chemical fingerprint when contacted by the target fluid (oil or water). These chemical fingerprints are referred to as 'tracers' and can be detected at concentrations of 1 part per trillion. 30 oil and 30 water tracers are currently available.

A selection of tracers is strategically integrated with the completion equipment (such as sand screens or specially designed carriers) across the reservoir interval. Reservoir fluids contact the tracer strips and carry the tracer chemicals to the surface where the produced fluids are sampled.

Analysis of the fluid samples determines the concentration of each tracer. This information provides the operator with knowledge about which reservoir intervals are flowing and insight into the proportional distribution of the inflow. Water sensitive tracers can be deployed alongside the oil sensitive tracers that provide the location of water break-thru.



What are the typical applications for RESMAN TRACERS ?

The most common applications are well clean-up monitoring, long term inflow monitoring and water break-thru location identification. Information from RESMAN technology can be used in decisions about optimizing completion design, stimulation effectiveness, water flood strategy, reservoir drainage and many other reservoir management challenges. Obtaining surveillance information from across the reservoir in today's hostile operating conditions and complex wells is so costly and risky using conventional techniques that in many cases it is never obtained.

RESMAN offers the operator the capability to obtain reservoir and wellbore surveillance in these environments with effectively zero risk.

What are the typical limitations ?

The spatial resolution of the inflow distribution is defined by the number of tracer locations. Currently there are 30 oil and 30 water tracers available, this range is being expanded continuously.

Where is this currently being used ?

North Sea, Alaska, Gulf of Mexico, USA Midcontinent, Newfoundland, Brazil, Australia

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