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Onsite Coreflood Evaluation

Automated Produced Water Re-injection (PWRI) Evaluation Tool

Achieving volumetric injection targets into a selected reservoir can only be sustained as long as the injected water meets minimum quality specifications. However, clear insight into the permeability reduction effects, resulting from injecting the actual produced or source water, can offer valuable empirical data needed for establishing injection water requirements, gain understanding in filter cake build-up, and simulate reservoir flood performance.

With the help of its automated onsite coreflooding rig, PanTerra is able to provide the much needed data by monitoring permeability reduction trends, whilst injecting a water of known quality into a core plug that is deemed representative for the reservoir to be flooded, under actual and/or predicted pressure drop conditions. Further, it can also monitor the quality of water with its inline particle size analyser.

Applications:

- Automated Coreflooding Tests
- Water Quality Monitoring
- Water Filtration
- EOR polymer injection evaluation
- Injector Half Life Time estimation

Benefits:

- Continuous and prolonged injection testing
- Real time monitoring, 24 hours data collection
- Designed to collect data in unattended mode
- Easy to transport and set-up on site
- Offers most reliable data for water injection purposes

System Components:

- Booster pump
- Flowmeters
- Temperature transmitters
- 3 core holders
- 4 filtration modules
- Automatic transducers
- Back pressure regulators

