

MacroMR Core NMR And MRI Analyzer

PRODUCT DESCRIPTION

The MacroMR an NMR analyzer and imaging system for larger size samples, combining outstanding features such as overall design, cavity flexibility, wide-range of applications, convenient handling, analysis and imaging integrated.

With rare earth NdFeB permanent magnet and NMDigI spectrometer, MacroMR12 offers high quality images. The large-diameter probe coil can handle sample size up to Ø150 mm.

Basic parameters:

1. Magnet: permanent magnet $0.3 \pm 0.05T$
2. Probe: Ø150mm
3. Dimensions (L, W, H): 3300mm×1400mm×1350mm
4. Total Weight: 2.4 tons (Magnet 2.3 tons, Control cabinet 0.1 tons)

Applications:

1. Exploration and development of low permeability oil field

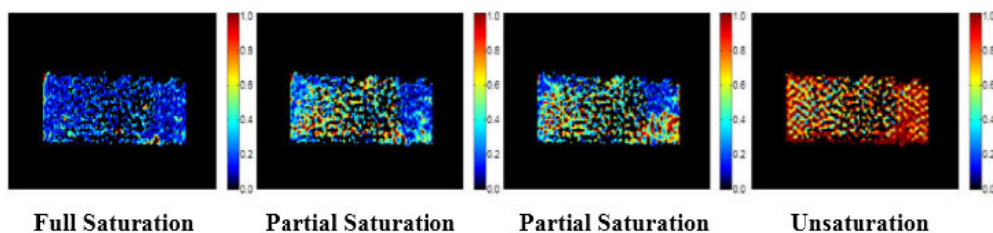
- Movable fluid saturation determination;
- Pore size distribution of rock;
- Mechanism of oil displacement;
- Cracks and micro-cracks evaluation;
- Mechanism of fracturing process.

2. Exploration and development of Gas field

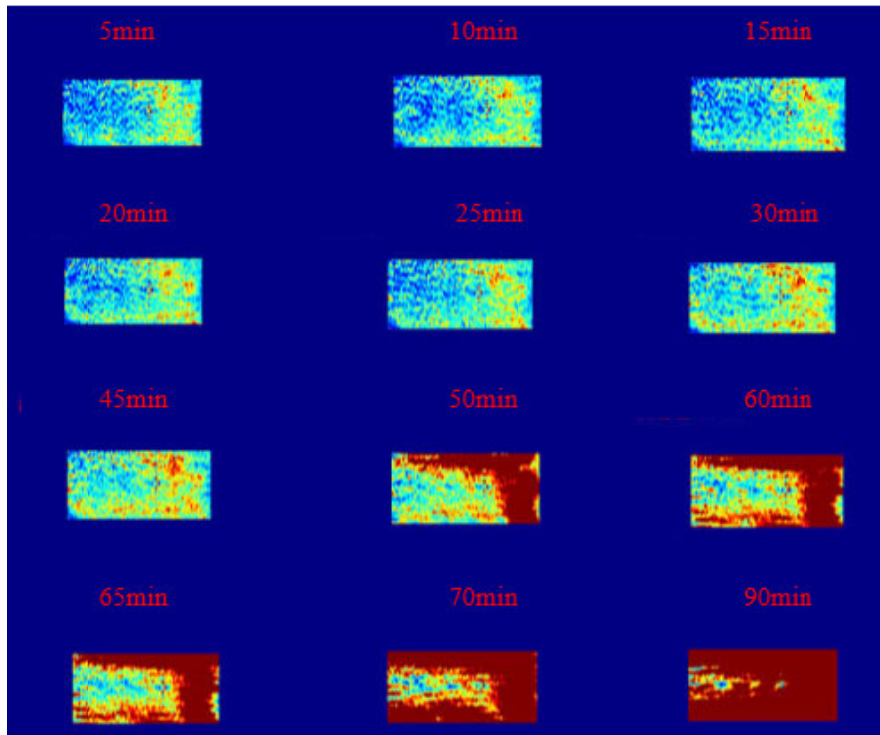
- The influence of overburden pressure on porosity and permeability;
- Pore size distribution of rock;
- Mechanism of water flooding;
- Gas field caverns, cracks and micro-cracks evaluation;
- Studies on modification mechanism;
- Free/irreducible fluid saturation.

3. Exploration and development of CBM(Coal Bed Methane)

- Porosity;
- Pore size distribution;
- Fracture development;
- Water saturation determination.



Gas Drive Image of Core



Oil Drive Image of Core

